

# RESEARCH

— *Kansas State University* —

2011



Office of Research and Sponsored Programs

September 23, 2011

Dear Colleague:

The Office of the Vice President for Research is pleased to provide the attached proposal/award activity report for the period July 1<sup>st</sup>, 2010– June 30<sup>th</sup>, 2011. These reports are intended to provide you with information regarding faculty efforts to obtain extramural support, along with a summary of their respective successes to date. As a reminder, you can also review a monthly listing of awards by going to the following link:

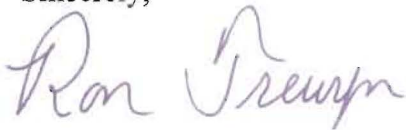
<http://www.k-state.edu/research/awards/>

If you have any questions regarding the contents of the attached report, you may contact Paul Lowe at [plowe@ksu.edu](mailto:plowe@ksu.edu) or 532-6804 or Susan Klein at [sklein@ksu.edu](mailto:sklein@ksu.edu) or 532-6804.

We hope you continue to find this information useful.

Thank you for your continued support and hard work.

Sincerely,



R.W. Trewyn  
Vice President for Research

# EXTRAMURAL AWARDS

*Fiscal Year 2011 (July 1, 2010 – June 30, 2011)*

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.

## **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. Revised April 22, 2008.

FY11 ANNUAL REPORT  
**RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE**  
 KANSAS STATE UNIVERSITY

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. Sponsored **\$124,698,829**

II. Appropriated

Main Campus State Appropriation \$ 6,077,584

Experiment Station Programs and  
Extension Services

Federal Appropriation\* \$10,106,566

State Appropriation \$49,447,332

College of Technology and Aviation  
State Appropriation \$ 25,438

Veterinary Medical Center  
State Appropriation \$ 25,457

SUBTOTAL **\$ 65,685,377**

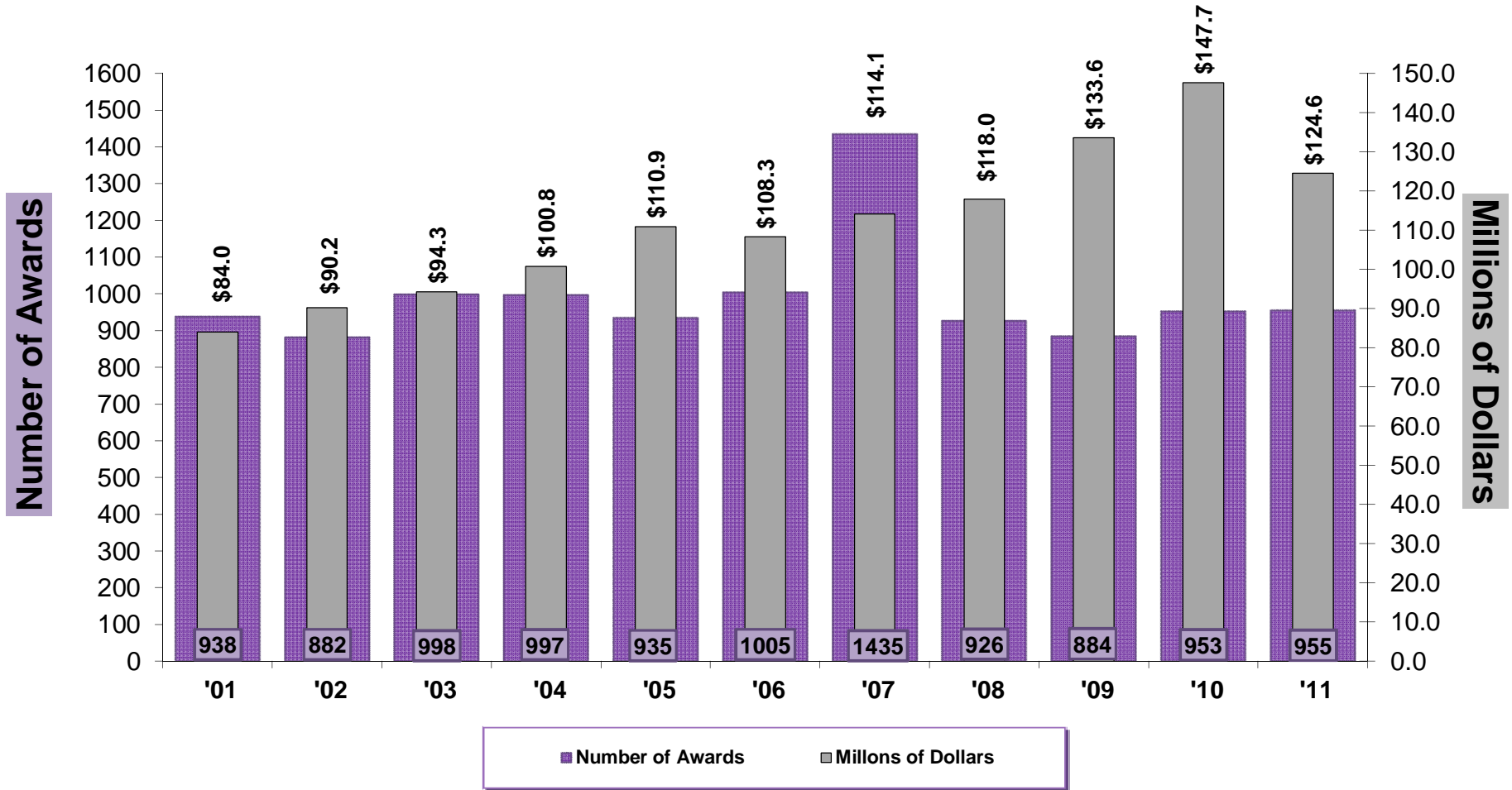
III. Donated\*\* **\$ 29,690,140**

**RESEARCH/SCHOLARLY ACTIVITY BASE**  
**GRAND TOTAL **\$220,074,346****

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

# KANSAS STATE UNIVERSITY

## Total Extramural Awards and Millions of Dollars Received



Distribution of New Awards Among  
College and Offices of the University

<b>College/Office Receiving Awards</b>	<b>Number</b>	<b>Dollar Value</b>
College of Agriculture	356	\$27,531,858
College of Architecture, Planning and Design	3	\$60,008
College of Arts and Sciences	161	\$25,496,059
College of Business Administration	4	\$42,022
College of Education	31	\$3,788,316
College of Engineering	215	\$22,356,548
College of Human Ecology	41	\$14,444,801
College of Technology and Aviation	6	\$45,177
College of Veterinary Medicine	84	\$17,195,012
Office of the President	4	\$457,146
Office of the Provost	21	\$4,243,697
Vice President for Administration and Finance	2	\$7,097
Vice President for Research	9	\$7,158,949
Vice President for Student Life and Dean of Students	18	\$1,872,139
<b>UNIVERSITY TOTAL</b>	<b>955</b>	<b>\$ 124,698,829</b>

Sources of Awards

<b>Sources</b>	<b>Number</b>	<b>Dollar Value</b>
Area/Local Government	6	\$484,670
Department of Agriculture	142	\$27,349,767
Department of Defense	41	\$14,805,588
Department of Education	28	\$4,995,357
Department of Energy	32	\$9,657,701
Department of Health and Human Services	75	\$12,821,774
Environmental Protection Agency	33	\$1,388,283
Foundations	197	\$7,579,718
Industry	129	\$7,737,986
National Science Foundation	99	\$18,650,104
National Aeronautics and Space Administration	3	\$87,595
Other Federal	108	\$11,224,958
State of Kansas	62	\$7,915,327
<b>TOTAL</b>	<b>955</b>	<b>\$124,698,829</b>



## COLLEGE OF AGRICULTURE

### AGRICULTURAL ECONOMICS

**Amanor-Boadu, Vincent R., Dalton, Timothy J., and Featherstone, Allen M.**, US Agency for International Development, \$347,080, "Pulse Value Chain Initiative-Zambia (PVCI- Z)."

**Barnaby Jr, Glenn A.**, US Department of Agriculture, \$15,000, "Crop Insurance Education for Wyoming Agricultural Producers."

**Bergtold, Jason S., Aistrup, Joseph** (Political Science), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), and **Peterson, Jeffrey M.**, National Science Foundation, "Farmers' Decisions to Grow Crops for Fuel."

**Bergtold, Jason S., Langemeier, Michael R., Peterson, Jeffrey M., and Williams, Jeffery R.**, US Department of Agriculture, "Meeting the Needs for MS and PhD Scholars Trained in the TESA of Agricultural Management and Economics."

**Bergtold, Jason S., Langemeier, Michael R., Peterson, Jeffrey M., Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Agriculture, \$399,467, "Small and Medium Size Farmers Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production Systems."

**Bergtold, Jason S., Langemeier, Michael R., Nelson, Richard G.** (Chemical Engineering), **Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Transportation, \$96,933 (includes \$1,200 from Oklahoma State University), "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Briggeman, Brian C.**, Multi-Sponsor, \$140,000, "Arthur Capper Cooperative Center."

**Crespi, John M.**, and **Dalton, Timothy J.**, US Agency for International Development, "Global Impact Assessment of Three INTSORMIL Activities."

**Dalton, Timothy J.**, and **Crespi, John M.**, US Agency for International Development, \$315,685, "Global Impact Assessment of Three INTSORMIL Activities."

**Dalton, Timothy J., Dhuyvetter, Kevin C., Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Dalton, Timothy J., Amanor-Boadu, Vincent R., and Featherstone, Allen M.**, US Agency for International Development, "Pulse Value Chain Initiative-Zambia (PVCI-Z)."

**Dhuyvetter, Kevin C., Dalton, Timothy J., Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$13,815, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Dhuyvetter, Kevin C., Brouk, Micheal J.** (Animal Sciences and Industry), and **Llewelyn, Richard V.**, US Department of Agriculture, \$43,976, "Developing Dairy Producer Peer Groups in Kansas."

**Dhuyvetter, Kevin C.**, and **Llewelyn, Richard V.**, US Department of Agriculture, \$45,372, "Improving Land Leasing Skills for Kansas Landlords and Producers."

**Dhuyvetter, Kevin C.**, and **Llewelyn, Richard V.**, US Department of Agriculture, "New Cooperation in a New Risk Era: Joint Risk-Management Education in Kansas and Nebraska."

**Featherstone, Allen M., Amanor-Boadu, Vincent R.**, and **Dalton, Timothy J.**, US Agency for International Development, "Pulse Value Chain Initiative-Zambia (PVCIZ)."

**Featherstone, Allen M.**, and **Wilson, Christine**, US Department of Agriculture, \$30,000, "An External Review of the Financial Statements Collected by the Agricultural Resource Management Survey."

**Golden, Bill B., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$42,349, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Herbel, Kevin L., Langemeier, Michael R.**, and **Schurle, Bryan W.**, Kansas Corn Commission, "Development of Farm Management Data Systems for Kansas Farmers."

**Herbel, Kevin L., Langemeier, Michael R.**, and **Schurle, Bryan W.**, Kansas Soybean Commission, "Development of Farm Management Data Systems for Kansas Farmers."

**Lambert, David**, US Department of Energy, \$73,336, "The Logistics of Herbaceous Crop Residue-Based Ethanol Production under Uncertainty."

**Langemeier, Michael R., Herbel, Kevin L.**, and **Schurle, Bryan W.**, Kansas Corn Commission, \$15,000, "Development of Farm Management Data Systems for Kansas **Langemeier, Michael R., Bergtold, Jason S., Peterson, Jeffrey M.**, and **Williams, Jeffery R.**, US Department of Agriculture, "Meeting the Needs for MS and PhD Scholars Trained in the TESA of Agricultural Management and Economics."

**Langemeier, Michael R., Bergtold, Jason S., Peterson, Jeffrey M., Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Agriculture, "Small and Medium Size Farmers Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production Systems."

**Langemeier, Michael R., Nelson, Richard G.** (Chemical Engineering), and **Staggenborg, Scott A.** (Agronomy), US Department of Energy, \$20,000, "Design and Demonstration of an Advanced Agricultural Feedstock Supply System for Lignocellulosic Bioenergy Production."

**Langemeier, Michael R., Bergtold, Jason S., Nelson, Richard G.** (Chemical Engineering), **Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Transportation, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."



**Langemeier, Michael R., Nelson, Richard G.** (Kansas Industrial Extension Services), **Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$6,095, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

**Leatherman, John C.**, Kansas Department of Health and Environment, \$155,369 (includes \$38,260 from cooperators and subcontractors), "Kansas WRAPS - Milford Implementation."

**Leatherman, John C.**, and **Douglas-Mankin, Kyle R.** (Biological and Agricultural Engineering), US Environmental Protection Agency, \$17,792, "KS WRAPS Cottonwood Development, Assessment and Planning / Neosho Headwaters Assessment and Planning."

**Leatherman, John C.**, US Environmental Protection Agency, \$22,235, "Marmaton 9-Elements Plan."

**Leatherman, John C.**, US Environmental Protection Agency, \$11,000, "Tuttle Creek WRAPS - FY2011."

**Llewelyn, Richard V., Brouk, Micheal J.** (Animal Sciences and Industry), and **Dhuyvetter, Kevin C.**, US Department of Agriculture, "Developing Dairy Producer Peer Groups in Kansas."

**Llewelyn, Richard V.**, and **Dhuyvetter, Kevin C.**, US Department of Agriculture, "Improving Land Leasing Skills for Kansas Landlords and Producers."

**Llewelyn, Richard V.**, and **Dhuyvetter, Kevin C.**, US Department of Agriculture, \$9,997, "New Cooperation in a New Risk Era: Joint Risk-Management Education in Kansas and Nebraska."

**Peterson, Jeffrey M., Aistrup, Joseph** (Political Science), **Bergtold, Jason S.**, and **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), National Science Foundation, \$107,661, "Farmers' Decisions to Grow Crops for Fuel."

**Peterson, Jeffrey M., Bergtold, Jason S., Langemeier, Michael R.**, and **Williams, Jeffery R.**, US Department of Agriculture, "Meeting the Needs for MS and PhD Scholars Trained in the TESA of Agricultural Management and Economics."

**Peterson, Jeffrey M., Bergtold, Jason S., Langemeier, Michael R., Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Agriculture, "Small and Medium Size Farmers Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production Systems."

**Schurle, Bryan W., Herbel, Kevin L.**, and **Langemeier, Michael R.**, Kansas Corn Commission, "Development of Farm Management Data Systems for Kansas Farmers."

**Schurle, Bryan W., Herbel, Kevin L.**, and **Langemeier, Michael R.**, Kansas Soybean Commission, \$15,000, "Development of Farm Management Data Systems for Kansas Farmers."

**Williams, Jeffery R., Bergtold, Jason S., Langemeier, Michael R.**, and **Peterson, Jeffrey M.**, US Department of Agriculture, \$236,000, "Meeting the Needs for MS and PhD Scholars Trained in the TESA of Agricultural Management and Economics."

**Williams, Jeffery R., Bergtold, Jason S., Langemeier, Michael R., Peterson, Jeffrey M.**, and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, "Small and Medium Size Farmers Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production Systems."

**Williams, Jeffery R., Bergtold, Jason S., Langemeier, Michael R., Nelson, Richard G.** (Chemical Engineering), and **Staggenborg, Scott A.** (Agronomy), US Department of Transportation, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Wilson, Christine,** and **Featherstone, Allen M.,** US Department of Agriculture, "An External Review of the Financial Statements Collected by the Agricultural Resource Management Survey."

#### **AGRICULTURAL EXPERIMENT STATION**

**Minton, J. Ernest,** and **Stamm, Michael J.** (Agronomy), US Department of Agriculture, \$210,000, "Development and Management of Canola in the Great Plains Region."

#### **AGRICULTURAL RESEARCH CENTER - HAYS**

**Blanco, Humberto,** US Department of Agriculture, \$173,278, "Establishment of Permissible Levels of Corn, Wheat, and Sorghum Residue Removal as Biofuel Feedstocks."

**Blanco, Humberto, Aiken, Robert M.** (Northwest Research Extension Center), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$12,705, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Geier, Patrick W., O'Brien, Daniel M.** (Northwest Area Office), and **Stahlman, Phillip W.,** Kansas Grain Sorghum Commission, "Managing Glyphosate-resistant Kochia Preplant and Postplanting in No-till Grain Sorghum."

**Harmoney, Keith R.,** Multi-Sponsor, \$11,000, "Beef Research."

**Harmoney, Keith R.,** US Department of Energy, \$31,714, "CRP Management for Biomass Feedstock Production."

**Jaeger, John R.,** and **Waggoner, Justin** (Southwest Research Extension Center), Kansas Corn Commission, "Cover Systems for Wet Distiller's Grain Stored in Concrete Bunkers."

**Jaeger, John R., Drouillard, James S.** (Animal Sciences and Industry), **Edwards, Lily N.** (Animal Sciences and Industry), **Hollis, Larry C.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), and **Rozell, Timothy G.** (Animal Sciences and Industry), The Darden Restaurants, Inc. Foundation, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Martin, Terry J.,** and **Thompson, Carlyle A.,** Multi-Sponsor, "Crop Culture."

**Perumal, Ramasamy,** Kansas Grain Sorghum Commission, \$100,000, "Development of Sorghum Germplasm with Enhanced Drought Tolerance and Higher Grain Yield."

**Perumal, Ramasamy,** and **Aiken, Robert M.** (Northwest Research Extension Center), Kansas Grain Sorghum Commission, \$8,673, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

**Perumal, Ramasamy, Little, Christopher R.** (Plant Pathology), and **Tesso, Tesfaye** (Agronomy), Kansas Grain Sorghum Commission, \$3,278, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

**Stahlman, Phillip W., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Maddux, Larry D.** (Agronomy), **Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Stahlman, Phillip W., Geier, Patrick W., and O'Brien, Daniel M.** (Northwest Area Office), Kansas Grain Sorghum Commission, \$10,726, "Managing Glyphosate-resistant Kochia Preplant and Postplanting in No-till Grain Sorghum."

**Stahlman, Phillip W., O'Brien, Daniel M.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), and **Thompson, Curtis R.** (Agronomy), Kansas Soybean Commission, \$22,425, "Managing Glyphosate-Resistant Kochia in Soybeans."

**Stahlman, Phillip W.,** Multi-Sponsor, \$172,000, "Weed Research."

**Stahlman, Phillip W., Falk, Jeanne S.** (Northwest Area Office), and **O'Brien, Robert T.** (Northwest Area Office), National Sunflower Association, \$18,000, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

**Thompson, Carlyle A., and Martin, Terry J.,** Multi-Sponsor, \$12,000, "Crop Culture."

## **AGRONOMY**

**Blocksome, Carolyn E.,** US Environmental Protection Agency, \$11,500, "Middle Kansas River WRAPS Technical Services."

**Devlin, Daniel L.,** Kansas Department of Health and Environment, \$47,641 (includes \$11,616 from cooperator support), "Kanopolis Reservoir - Big Creek Middle Smoky Hill River Watersheds WRAPS Implementation."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, \$25,572 (includes \$4,145 from cooperator support), "KS WRAPS - Marais des Cygnes River Basin."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, \$19,646 (includes \$2,686 from cooperator support), "KS WRAPS - Watershed Specialist Lower Kansas (Boyer)."

**Devlin, Daniel L., Barnes, Philip L.** (Biological and Agricultural Engineering), and **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, \$44,703 (includes \$10,613 from cooperator support), "Little Arkansas WRAPS Implementation."

**Devlin, Daniel L., Champion, Benjamin** (Office of the Provost), and **Rice, Charles W.,** National Science Foundation, "CCEP-I: Central Great Plains Climate Change Education Partnership."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, \$16,931, "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

**Fick, Walter H.,** Multi-Sponsor, \$9,600, "Range and Pasture Brush and Weed Control."

**Fritz, Allan K., and Pagadala, P.V. Vara,** Kansas Crop Improvement Association, "Evaluation of Drought and Heat Tolerance in Wheat."

**Fritz, Allan K.,** US Department of Agriculture, \$48,780, "Wheat Stem Rust Cooperative Research - Kansas State University."

**Heer, William F., Nelson, Randall, and Roozeboom, Kraig L.,** Kansas Grain Sorghum Commission, "Interaction of Grain Sorghum Planting Date, Hybrid Maturity, and Seeding Rate in Kansas Environment."

**Heer, William F.,** Monsanto Company, \$18,900, "Academic - Agronomic System in Dryland WGF/Residue Management (Service Order 25)."

**Heer, William F.,** Monsanto Company, \$18,900, "Academic - Agronomic Systems in Dryland WGP/Planting Date (Service Order 26)."

**Heer, William F., Aiken, Robert M.** (Northwest Research Extension Center), and **Schlegel, Alan J.** (Southwest Research Extension Center), National Sunflower Association, "Row Spacing and Population Effects on Double-Cropped Sunflower Productivity."

**Hettiarachchi, Ganga M., Leven, Blase A.** (Center for Hazardous Substance Research), and **Martin, Sabine E.** (Center for Hazardous Substance Research), US Environmental Protection Agency, \$112,500, "Sustainable Local Gardening Redevelopment at Brownfields Sites."

**Hettiarachchi, Ganga M., Davis, Lawrence C.** (Biochemistry), **Erickson, Larry E.** (Center for Hazardous Substance Research), and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), Westar Energy, \$69,510, "Westar Wetlands Project."

**Janssen, Keith A., and Thompson, Curtis R.,** Multi-Sponsor, "Field Herbicidal Evaluations."

**Kluitenberg, Gerard J., Caragea, Doina** (Computing and Information Sciences), **Das, Sanjoy** (Electrical and Computer Engineering), and **Welch, Stephen M.,** National Science Foundation, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

**Maddux, Larry D., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E., Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.,** Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Maddux, Larry D., Marsh, Brian H., Nelson, Nathan O., and Pierzynski, Gary M.,** Multi-Sponsor, "Soil Fertility and Soil Management Investigations."

**Marsh, Brian H., Maddux, Larry D., Nelson, Nathan O., and Pierzynski, Gary M.,** Multi-Sponsor, "Soil Fertility and Soil Management Investigations."

**Mengel, David B.**, Kansas Grain Sorghum Commission, \$35,517, "Increased Sorghum Yield and Profitability through Efficient Nitrogen Use."

**Mengel, David B.**, and **Ruiz Diaz Suarez, Dorivar A.**, Kansas Soybean Commission, \$30,705, "Correction of Potassium Deficiency in Soybean Production in Kansas."

**Mengel, David B.**, **Martin, Kent L.** (Southwest Research Extension Center), **Pagadala, P.V. Vara**, **Tesso, Tesfaye**, and **Yu, Jianming**, The United Sorghum Checkoff Program Board, \$100,000, "Enhancing Sorghum Nitrogen Use Efficiency Through Breeding, Genetics and Fertilizer Management in Kansas."

**Mengel, David B.**, **Pagadala, P.V. Vara**, and **Tesso, Tesfaye**, The United Sorghum Checkoff Program Board, "Study of Genetic and Physiological Characteristics Associated with Improved Nitrogen Use Efficiency and Drought Tolerance in Sorghum."

**Mengel, David B.**, **Pagadala, 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."

**Minton, J. Ernest**, US Department of Agriculture, \$7,480, "Acquisition of Goods and Services - Research Support Agreement #58-5430-0-922."

**Minton, J. Ernest**, US Department of Agriculture, \$7,150, "Acquisition of Goods and Services 58-5430-1-936."

**Minton, J. Ernest**, US Department of Agriculture, \$330, "Acquisition of Goods and Services 58-5430-1-937."

**Nelson, Nathan O.**, **Maddux, Larry D.**, **Marsh, Brian H.**, and **Pierzynski, Gary M.**, Multi-Sponsor, \$45,500, "Soil Fertility and Soil Management Investigations."

**Nelson, Randall**, and **Roozeboom, Kraig L.**, Kansas Grain Sorghum Commission, \$9,123, "Harvest and Residue Management of Sorghum to Facilitate Double-Cropped Wheat."

**Nelson, Randall**, **Heer, William F.**, and **Roozeboom, Kraig L.**, Kansas Grain Sorghum Commission, "Interaction of Grain Sorghum Planting Date, Hybrid Maturity, and Seeding Rate in Kansas Environment."

**Pagadala, P.V. Vara**, and **Fritz, Allan K.**, Kansas Crop Improvement Association, \$7,000, "Evaluation of Drought and Heat Tolerance in Wheat."

**Pagadala, P.V. Vara**, **Roozeboom, Kraig L.**, **Tesso, Tesfaye**, and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Breeding Grain Sorghum for Improved Dryland Production."

**Pagadala, P.V. Vara**, **Roozeboom, Kraig L.**, **Tesso, Tesfaye**, and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Breeding Sorghum for Improved Production and Utilization."

**Pagadala, P.V. Vara**, **Roozeboom, Kraig L.**, and **Staggenborg, Scott A.**, Kansas Grain Sorghum Commission, "Development of a Forage Harvester for Research Plots."

**Pagadala, P.V. Vara**, **Tesso, Tesfaye**, and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Genetic Analysis of Drought Tolerance in Grain Sorghum."

**Pagadala, P.V. Vara, Tesso, Tesfaye, and Yu, Jianming**, Kansas Grain Sorghum Commission, \$104,000, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

**Pagadala, P.V. Vara, Martin, Kent L.** (Southwest Research Extension Center), **Mengel, David B., Tesso, Tesfaye, and Yu, Jianming**, The United Sorghum Checkoff Program Board, "Enhancing Sorghum Nitrogen Use Efficiency Through Breeding, Genetics and Fertilizer Management in Kansas."

**Pagadala, P.V. Vara, Mengel, David B., and Tesso, Tesfaye**, The United Sorghum Checkoff Program Board, "Study of Genetic and Physiological Characteristics Associated with Improved Nitrogen Use Efficiency and Drought Tolerance in Sorghum."

**Pagadala, P.V. Vara**, US Agency for International Development, \$20,000, "2010 Norman E. Borlaug International Science and Technology Fellows: The Borlaug Leadership Enhancement in Agriculture Program LEAP (Rachel Opole)."

**Pagadala, P.V. Vara, and Staggenborg, Scott A.**, US Agency for International Development, \$94,436, "Decrue Sorghum Research in Mali."

**Pagadala, P.V. Vara, Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Presley, DeAnn R., Rice, Charles W., Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.**, US Agency for International Development, \$103,610, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Pagadala, P.V. Vara, Mengel, David B., and Staggenborg, Scott A.**, US Agency for International Development, \$77,000, "Integrated Soil, Water and Crop Management Strategies for Improving Productivity in Sorghum and Millet Based Cropping Systems."

**Pagadala, P.V. Vara, and Staggenborg, Scott A.**, US Agency for International Development, \$153,359, "Transfer of Sorghum and Millet Production, Processing and Marketing Technologies in Mali - Training Component."

**Pagadala, P.V. Vara**, US Department of Agriculture, \$24,937, "Borlaug Fellowship Southeast Asia."

**Pagadala, P.V. Vara, and Akhunov, Eduard D.** (Plant Pathology), US Department of Agriculture, \$103,044, "Improving Barley and Wheat Germplasm for Changing Environments."

**Pagadala, P.V. Vara**, US Department of Agriculture, \$27,826, "Kansas State University - Hosting Foreign Climate Change Scientists."

**Pagadala, P.V. Vara, Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A., and Steward, David R.** (Civil Engineering), US Department of Agriculture, \$25,410, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."



**Peterson, Dallas E., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Maddux, Larry D., Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.**, Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Peterson, Dallas E., O'Brien, Daniel M.** (Northwest Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.**, Kansas Soybean Commission, "Managing Glyphosate-Resistant Kochia in Soybeans."

**Peterson, Dallas E.**, Monsanto Company, \$8,000, "Develop Region-Specific Weed Management Recommendation for Dicamba Tolerant Soybeans in Min-Till System."

**Pierzynski, Gary M., Maddux, Larry D., Marsh, Brian H., and Nelson, Nathan O.**, Multi-Sponsor, "Soil Fertility and Soil Management Investigations."

**Pierzynski, Gary M.**, US Department of Agriculture, \$287,764, "Development of Abiotic Stress Resistant Wheat Germplasm."

**Pierzynski, Gary M.**, US Department of Agriculture, \$34,000, "Development of Enhanced Features, Improved Documentation and Expanded Databases for WEPS."

**Pierzynski, Gary M.**, US Department of Agriculture, \$80,000, "Wind Erosion Prediction System, Version 1.1.16 (WEPS)."

**Poland, Jesse A., and Leslie, John F.** (Plant Pathology), Monsanto Company, "Monsanto's Beachell-Borlaug International Scholars Program (Sandra Dunkel's PhD Study)."

**Presley, DeAnn R., Little, Christopher R.** (Plant Pathology), and **Martin, Kent L.**, Kansas Corn Commission, \$25,491, "Vertical Tillage Effects on Corn Yield, Residue Decomposition, Disease and Pathogens, and Soil Properties."

**Presley, DeAnn R., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara, Rice, Charles W., Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.**, US Agency for International Development, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Presley, DeAnn R., and Ransom, Michel D.**, US Department of Agriculture, \$30,000, "Dynamic Soil Properties: Quantifying and Evaluating Effects of Eastern Red Cedar (*Juniperus virginiana*) Encroachment on Tallgrass Prairie-derived Soils."

**Presley, DeAnn R., Atchison, Robert L.** (Kansas Forest Service), and **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Department of the Interior, \$46,168, "FY 2011 Kansas Water Resources Research Institute."

**Ransom, Michel D., and Presley, DeAnn R.**, US Department of Agriculture, "Dynamic Soil Properties: Quantifying and Evaluating Effects of Eastern Red Cedar (*Juniperus virginiana*) Encroachment on Tallgrass Prairie-derived Soils."

**Ransom, Michel D.**, US Department of Agriculture, \$15,000, "Soil Laboratory Analysis to Support Soil Properties for Use in Determining How Soils Interpret for Various Uses."

**Rice, Charles W.**, David and Lucile Packard Foundation, \$34,000, "Integrated Bio-Physico- Chemical Approaches to Understand Mechanisms Controlling Capacity and Stability of Soil C.."

**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., Olson, Brian L.** (Northwest Area Office), and **Roozeboom, Kraig L.**, Kansas Soybean Commission, \$20,132, "Evaluation of Soybean Inoculant Products and Techniques to Address Soybean Nodulation Problems in Kansas."

**Rice, Charles W., Champion, Benjamin** (Office of the Provost), and **Devlin, Daniel L.**, National Science Foundation, "CCEP-I: Central Great Plains Climate Change Education Partnership."

**Rice, Charles W., Harrington Jr, John A.** (Geography), and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), National Science Foundation, \$918,099, "Understanding Climate Change in the Great Plains: Source, Impact, and Mitigation."

**Rice, Charles W., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara, Presley, DeAnn R., Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.**, US Agency for International Development, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Rice, Charles W.**, US Department of Education, \$77,245, "Providing Education in Face of Climate Change, Food and Energy Scarcity."

**Rice, Charles W.**, and **Jumpponen, Ari M.** (Biology), US Department of Energy, "Meta-"omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils."

**Roozeboom, Kraig L.**, Kansas Corn Commission, \$7,200, "Extension and Applied Research Programs for Kansas Corn Production."

**Roozeboom, Kraig L., Pagadala, P.V. Vara, Tesso, Tesfaye,** and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Breeding Grain Sorghum for Improved Dryland Production."

**Roozeboom, Kraig L., Pagadala, P.V. Vara, Tesso, Tesfaye,** and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Breeding Sorghum for Improved Production and Utilization."

**Roozeboom, Kraig L., Pagadala, P.V. Vara,** and **Staggenborg, Scott A.**, Kansas Grain Sorghum Commission, "Development of a Forage Harvester for Research Plots."

**Roozeboom, Kraig L.,** and **Nelson, Randall**, Kansas Grain Sorghum Commission, "Harvest and Residue Management of Sorghum to Facilitate Double-Cropped Wheat."

**Roozeboom, Kraig L., Heer, William F.,** and **Nelson, Randall**, Kansas Grain Sorghum Commission, \$19,783, "Interaction of Grain Sorghum Planting Date, Hybrid Maturity, and Seeding Rate in Kansas Environment."

**Roozeboom, Kraig L., Olson, Brian L.** (Northwest Area Office), and **Rice, Charles W.**, Kansas Soybean Commission, "Evaluation of Soybean Inoculant Products and Techniques to Address Soybean Nodulation Problems in Kansas."

**Roozeboom, Kraig L.**, Kansas Soybean Commission, \$5,379, "Extension and Applied Research Programs for Kansas Soybean Production."

**Roozeboom, Kraig L.**, Multi-Sponsor, \$262,165, "Crop Performance."

**Ruiz Diaz Suarez, Dorivar A.**, Kansas Corn Commission, \$8,900, "Improving Corn Yields with Starter and Foliar Application of Macro and Micronutrient Fertilizers."

**Ruiz Diaz Suarez, Dorivar A., Holman, Johnathon D.** (Southwest Research Extension Center), **Martin, Kent L.** (Southwest Research Extension Center), and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Grain Sorghum Commission, "Effect of Manure, Iron and Zinc Applications Methods on Grain Sorghum Yield."

**Ruiz Diaz Suarez, Dorivar A., and Mengel, David B.**, Kansas Soybean Commission, "Correction of Potassium Deficiency in Soybean Production in Kansas."

**Ruiz Diaz Suarez, Dorivar A., Duncan, Stewart R.** (Northeast Area Office), **Martin, Kent L.** (Southwest Area Office), and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$22,336, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

**Schaffer, Vernon A.**, Multi-Sponsor, \$4,570, "Foundation Seed Maintenance."

**Schapaugh Jr, William T., Buschman, Larry L.** (Entomology), **McCornack, Brian P., Smith, C. Michael** (Entomology), and **Whitworth, Robert "Jeff" J.** (Entomology), Kansas Soybean Commission, \$2,803, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

**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., Kusel, Kelly R.** (Southeast Agricultural Research Center), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$201,458, "Trait and Production Efficiency Enhancement in Soybean."

**Schapaugh Jr, William T., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

**Shroyer, James P.**, Kansas Wheat Commission, \$4,000, "Wheat Production in Kansas: Extension and Applied Research."

**Staggenborg, Scott A., Rice, Charles W., and Wang, Donghai** (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, \$15,000, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

**Staggenborg, Scott A., Pagadala, P.V. Vara, and Roozeboom, Kraig L.,** Kansas Grain Sorghum Commission, \$10,000, "Development of a Forage Harvester for Research Plots."

**Staggenborg, Scott A.,** Kansas Water Office, \$50,000, "Automated Weather Stations."

**Staggenborg, Scott A.,** Kansas Water Office, \$49,000, "Automated Weather Stations Continued Operations Agreement - Fiscal Year 2011."

**Staggenborg, Scott A.,** National Oceanic and Atmosphere Administration, \$101,750, "Teaming Agreement."

**Staggenborg, Scott A., and Pagadala, P.V. Vara,** US Agency for International Development, "Decrue Sorghum Research in Mali."

**Staggenborg, Scott A., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara, Presley, DeAnn R., Rice, Charles W., and Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), US Agency for International Development, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Staggenborg, Scott A., Mengel, David B., and Pagadala, 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., and Pagadala, P.V. Vara,** US Agency for International Development, "Transfer of Sorghum and Millet Production, Processing and Marketing Technologies in Mali - Training Component."

**Staggenborg, Scott A., Bergtold, Jason S.** (Agricultural Economics), **Langemeier, Michael R.** (Agricultural Economics), **Peterson, Jeffrey M.** (Agricultural Economics), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Agriculture, \$99,867, "Small and Medium Size Farmers Ability and Willingness to Supply Carbon Offsets through Carbon Markets and Conservation Crop Production Systems."

**Staggenborg, Scott A., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara, Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Staggenborg, Scott A., Langemeier, Michael R.** (Agricultural Economics), and **Nelson, Richard G.** (Chemical Engineering), US Department of Energy, \$20,000, "Design and Demonstration of an Advanced Agricultural Feedstock Supply System for Lignocellulosic Bioenergy Production."

**Staggenborg, Scott A.,** US Department of Energy, \$30,225, "Regional Biomass Feedstock Partnership."

**Staggenborg, Scott A., Madl, Ronald L.** (Grain Science and Industry), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$7,000, "Bio-Oil From Pyrolysis of Sorghum Biomass."

**Staggenborg, Scott A., Bergtold, Jason S.** (Agricultural Economics), **Langemeier, Michael R.** (Agricultural Economics), **Nelson, Richard G.** (Chemical Engineering), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Transportation, \$12,117 (includes \$150 from Oklahoma State University), "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Staggenborg, Scott A., Langemeier, Michael R.** (Agricultural Economics), **Nelson, Richard G.** (Kansas Industrial Extension Services), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$6,095, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

**Stamm, Michael J.**, Kansas Crop Improvement Association, \$5,000, "Improving Winter Canola Germplasm and Varieties."

**Stamm, Michael J., Holman, Johnathon D.** (Southwest Research Extension Center), **Martin, Kent L.** (Southwest Area Office), and **Shoup, Douglas E.** (Southeast Area Office), US Canola Association, "Promote Canola Acres in the Great Plains."

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

**Tesso, Tesfaye, Pagadala, P.V. Vara, Roozeboom, Kraig L., and Yu, Jianming**, Kansas Grain Sorghum Commission, \$69,800, "Breeding Grain Sorghum for Improved Dryland Production."

**Tesso, Tesfaye, Pagadala, P.V. Vara, Roozeboom, Kraig L., and Yu, Jianming**, Kansas Grain Sorghum Commission, \$81,200, "Breeding Sorghum for Improved Production and Utilization."

**Tesso, Tesfaye, Pagadala, P.V. Vara, and Yu, Jianming**, Kansas Grain Sorghum Commission, "Genetic Analysis of Drought Tolerance in Grain Sorghum."

**Tesso, Tesfaye, Little, Christopher R.** (Plant Pathology), and **Perumal, Ramasamy** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, \$1,639, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

**Tesso, Tesfaye, Pagadala, P.V. Vara, and Yu, Jianming**, Kansas Grain Sorghum Commission, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

**Tesso, Tesfaye, Martin, Kent L.** (Southwest Research Extension Center), **Mengel, David B., Pagadala, P.V. Vara, and Yu, Jianming**, The United Sorghum Checkoff Program Board, "Enhancing Sorghum Nitrogen Use Efficiency Through Breeding, Genetics and Fertilizer Management in Kansas."

**Tesso, Tesfaye, Mengel, David B., and Pagadala, P.V. Vara**, The United Sorghum Checkoff Program Board, \$41,500, "Study of Genetic and Physiological Characteristics Associated with Improved Nitrogen Use Efficiency and Drought Tolerance in Sorghum."

**Thompson, Curtis R., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Maddux, Larry D., Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E., Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), and **Stahlman, Phillip W.** (Agricultural Research Center- Hays), Kansas Grain Sorghum Commission, \$13,000, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Thompson, Curtis R., O'Brien, Daniel M.** (Northwest Area Office), **Peterson, Dallas E.,** and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Soybean Commission, "Managing Glyphosate-Resistant Kochia in Soybeans."

**Thompson, Curtis R.,** and **Janssen, Keith A.,** Multi-Sponsor, \$265,216, "Field Herbicidal Evaluations."

**Welch, Stephen M., Caragea, Doina** (Computing and Information Sciences), and **Das, Sanjoy** (Electrical and Computer Engineering), National Science Foundation, \$71,943, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

**Welch, Stephen M., Caragea, Doina** (Computing and Information Sciences), **Das, Sanjoy** (Electrical and Computer Engineering), and **Kluitenberg, Gerard J.,** National Science Foundation, \$203,752, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

**Yu, Jianming, Pagadala, P.V. Vara, Roozeboom, Kraig L.,** and **Tesso, Tesfaye,** Kansas Grain Sorghum Commission, "Breeding Grain Sorghum for Improved Dryland Production."

**Yu, Jianming, Pagadala, P.V. Vara, Roozeboom, Kraig L.,** and **Tesso, Tesfaye,** Kansas Grain Sorghum Commission, "Breeding Sorghum for Improved Production and Utilization."

**Yu, Jianming, Pagadala, P.V. Vara,** and **Tesso, Tesfaye,** Kansas Grain Sorghum Commission, \$120,000, "Genetic Analysis of Drought Tolerance in Grain Sorghum."

**Yu, Jianming, Pagadala, P.V. Vara,** and **Tesso, Tesfaye,** Kansas Grain Sorghum Commission, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

**Yu, Jianming,** National Science Foundation, \$93,119, "Genomic Analyses of Shoot Meristem Function in Maizes."

**Yu, Jianming, Martin, Kent L.** (Southwest Research Extension Center), **Mengel, David B., Pagadala, P.V. Vara,** and **Tesso, Tesfaye,** The United Sorghum Checkoff Program Board, "Enhancing Sorghum Nitrogen Use Efficiency Through Breeding, Genetics and Fertilizer Management in Kansas."

## **ANIMAL SCIENCES AND INDUSTRY**

**Aramouni, Fadi M.,** American Egg Board, \$75,000, "The Use and Modification of Egg Albumin for Enhanced Quality of Gluten-Free Bread (Research Fellowship - Brennan Smith)."

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

**Aramouni, Fadi M., Haub, Mark D.** (Human Nutrition), and **Shi, Yong Cheng** (Grain Science and Industry), The United Sorghum Checkoff Program Board, "Sorghum as a Super Health Food II. Starch Digestibility and Glycemic Index of Sorghum Based Foods."



**Bergstrom, Jonathan R., DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.**, Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**Blasi, Dale A., and Coetzee, Johann F.** (Clinical Sciences), Bayer Corporation, \$96,390, "Services Agreement."

**Bradford, Barry J.**, DSM Nutritional Products AG, \$62,000, "Effects of Dietary Amylase and Sucrose on Productivity of Cows fed Low-starch Diets."

**Bradford, Barry J., and Smith, John F.**, Elanco Animal Health, \$136,000, "Can rbST Mitigate the Metabolic Consequences of Inflammation?"

**Bradford, Barry J., Smith, John F., and Titgemeyer, Evan C.**, Grain States Soya, Inc., "Availability of Methionine from Soybest Products."

**Bradford, Barry J., Drouillard, James S., and Titgemeyer, Evan C.**, LignoTech USA, \$68,000, "Susceptibility of Acid Resin Treated Flaxseed to Ruminal Degradation and Implications for Milk Fatty Acid Profile of Lactating Dairy Cattle."

**Bradford, Barry J.**, Min-Ad, Inc., \$25,375, "Effects of Magnesium Source on Serum, Urine, and Fecal Magnesium Concentrations."

**Brouk, Micheal J., Dhuyvetter, Kevin C.** (Agricultural Economics), and **Llewelyn, Richard V.** (Agricultural Economics), US Department of Agriculture, "Developing Dairy Producer Peer Groups in Kansas."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Ajinomoto Heartland LLC, "Land O'Lakes Trial for 15 to 25 lb Pigs."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Ajinomoto Heartland LLC, "Tryptophan to Lysine Ration for Nursery and Finisher Pigs."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Archer Daniels Midland Company, "Effects of Vitamin E Level and Source (Natural vs Synthetic) on Sow Vitamin E Reserves and Milk Levels."

**DeRouche, Joel M., and Barnes, Philip L.** (Biological and Agricultural Engineering), CAFO Best Waste Solutions LLC, \$12,447, "Effects of CAFO's Best Technology on Swine Manure Nutrient Concentration."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Direct Biologicals, "The Use of Probiotic (Bacillus Product) in Diets for Growing and Finishing Pigs."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.**, Lonza, Inc., \$25,000, "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."

**DeRouche, Joel M., Bergstrom, Jonathan R., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.**, Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Pfizer, Inc., "Influence of DDGS Withdrawal Post Vaccination on Growth Performance, Carcass Characteristics, Fatty Acid Analysis and Iodine Value of Pork Fat Depots."

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

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Tech-Mix, "An Evaluation of the Effects of Liqueitin on Weaning Pigs Administered a Mycoplasma/PCV2 Vaccine Regimen."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.**, The United Sorghum Checkoff Program Board, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**DeRouche, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, UP-A- NOTCH R&D, "Effects of PEP2+ and Fishmeal on Nursery Pig Performance."

**DeRouche, Joel M., and Barden, Charles J.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$143,418, "Heartland Regional Water Coordination Initiative."

**Drouillard, James S., and Wang, Donghai** (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, \$7,000, "Effect of Decortication on Feed Quality of Sorghum DDGS."

**Drouillard, James S., Bradford, Barry J., and Titgemeyer, Evan C.**, LignoTech USA, "Susceptibility of Acid Resin Treated Flaxseed to Ruminant Degradation and Implications for Milk Fatty Acid Profile of Lactating Dairy Cattle."

**Drouillard, James S.**, Pfizer, Inc., \$81,437, "Research Protocols Agreement-Inducing Endogenous Secretion of Somatotropin and IGF-1 in Cattle with oral Administration of Menthol."

**Drouillard, James S.**, POET Nutrition, Inc. (PNI), \$80,000, "Research Trial Regarding the Feeding of Enzymes to Beef Finishing Cattle."

**Drouillard, James S., Edwards, Lily N., Hollis, Larry C., Houser, Terry A., Jaeger, John R.** (Agricultural Research Center-Hays), and **Rozell, Timothy G.**, The Darden Restaurants, Inc. Foundation, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Drouillard, James S., and Wang, Donghai** (Biological and Agricultural Engineering), The United Sorghum Checkoff Program Board, \$10,000, "Effect of Heating on the Quality of Sorghum DDGS."

**Edwards, Lily N., Drouillard, James S., Hollis, Larry C., Houser, Terry A., Jaeger, John R.** (Agricultural Research Center-Hays), and **Rozell, Timothy G.**, The Darden Restaurants, Inc. Foundation, \$67,837, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Fike, Karol E., and Grieger, David M.,** Sexing Technologies, \$15,000, "Effect of Melengestrol Acetate and Growth Promotants on Oocyte Yield, Quality, Fertilization Rate and Developmental Competence for in vitro Embryo Production in Beef Heifers."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** Ajinomoto Heartland LLC, "Land O'Lakes Trial for 15 to 25 lb Pigs."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** Ajinomoto Heartland LLC, "Tryptophan to Lysine Ration for Nursery and Finisher Pigs."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** Archer Daniels Midland Company, "Effects of Vitamin E Level and Source (Natural vs Synthetic) on Sow Vitamin E Reserves and Milk Levels."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** Direct Biologicals, "The Use of Probiotic (Bacillus Product) in Diets for Growing and Finishing Pigs."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.,** Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."

**Goodband, Robert D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.,** Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** Pfizer, Inc., "Influence of DDGS Withdrawal Post Vaccination on Growth Performance, Carcass Characteristics, Fatty Acid Analysis and Iodine Value of Pork Fat Depots."

**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.,** Tech-Mix, \$5,000, "An Evaluation of the Effects of Liqueitin on Weaning Pigs Administered a Mycoplasma/PCV2 Vaccine Regimen."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Houser, Terry A., Nelssen, Jim L., and Tokach, Michael D.,** The United Sorghum Checkoff Program Board, \$47,000, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L., and Tokach, Michael D.,** UP-A-NOTCH R&D, \$10,000, "Effects of PEP2+ and Fishmeal on Nursery Pig Performance."

**Grieger, David M., and Fike, Karol E.,** Sexing Technologies, "Effect of Melengestrol Acetate and Growth Promotants on Oocyte Yield, Quality, Fertilization Rate and Developmental Competence for in vitro Embryo Production in Beef Heifers."

**Hancock, Joe D.**, US Agency for International Development, \$102,000, "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 Agriculture, "Food and Feed Value Added Program Project."

**Hollis, Larry C.**, **Drouillard, James S.**, **Edwards, Lily N.**, **Houser, Terry A.**, **Jaeger, John R.** (Agricultural Research Center-Hays), and **Rozell, Timothy G.**, The Darden Restaurants, Inc. Foundation, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Houser, Terry A.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."

**Houser, Terry A.**, **Bergstrom, Jonathan R.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**Houser, Terry A.**, **Drouillard, James S.**, **Edwards, Lily N.**, **Hollis, Larry C.**, **Jaeger, John R.** (Agricultural Research Center-Hays), and **Rozell, Timothy G.**, The Darden Restaurants, Inc. Foundation, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Houser, Terry A.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, The United Sorghum Checkoff Program Board, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**Lee, Charles D.**, Kansas Department of Wildlife and Parks, \$36,691, "Extension Education Position Support."

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

**Lee, Charles D.**, US Department of the Interior, \$5,500, "Management of Habitat for Reintroduction of Black-Footed Ferrets in Kansas."

**Nelssen, Jim L.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Ajinomoto Heartland LLC, "Land O'Lakes Trial for 15 to 25 lb Pigs."

**Nelssen, Jim L.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Ajinomoto Heartland LLC, "Tryptophan to Lysine Ration for Nursery and Finisher Pigs."

**Nelssen, Jim L.**, **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Archer Daniels Midland Company, "Effects of Vitamin E Level and Source (Natural vs Synthetic) on Sow Vitamin E Reserves and Milk Levels."

**Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Tokach, Michael D.**, Direct Biologicals, "The Use of Probiotic (Bacillus Product) in Diets for Growing and Finishing Pigs."

**Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Tokach, Michael D.**, Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."

**Nelssen, Jim L., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Scott, Harvey M.** (Diagnostic Medicine/Pathobiology), and **Tokach, Michael D.**, National Pork Board, "Towards Controlling Antimicrobial Resistance in Swine Production Systems: Harnessing the Paradoxical Effects of Micro- Minerals and Feed-Grade Antimicrobials on Resistance in Enteric Bacteria."

**Nelssen, Jim L., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Tokach, Michael D.**, Naturxan, LLC, \$98,000, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Tokach, Michael D.**, Pfizer, Inc., "Influence of DDGS Withdrawal Post Vaccination on Growth Performance, Carcass Characteristics, Fatty Acid Analysis and Iodine Value of Pork Fat Depots."

**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.**, Tech-Mix, "An Evaluation of the Effects of Liqueitin on Weaning Pigs Administered a Mycoplasma/PCV2 Vaccine Regimen."

**Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Tokach, Michael D.**, The United Sorghum Checkoff Program Board, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Tokach, Michael D.**, UP-A- NOTCH R&D, "Effects of PEP2+ and Fishmeal on Nursery Pig Performance."

**Nutsch, Abbey L., Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), and **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, \$26,153, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

**Odde, Kenneth G.**, Kansas Beef Council, \$211,600, "Support of Regents Distinguished Professorship in Animal Sciences."

**Phebus, Randall K., and Schmidt, Karen A.**, Dairy Management, Inc., "RFDH: A Process Lethality Treatment that Imparts Unique Functionality."

**Phebus, Randall K.**, XIM Group LLC, \$56,000, "Laboratory Evaluation of the Efficacy of Novel Antimicrobials for Food and Environmental Applications."

**Reinhardt, Christopher D., and Thomson, Daniel U.** (Clinical Sciences), Pfizer, Inc., \$175,500, "Benchmarking and Improving Feedlot Performance, Carcass Quality, Animal Health, and Management and Procurement Practices based on Digestive and Respiratory Pathologic Anomalies Identified at Slaughter."

**Rozell, Timothy G., Drouillard, James S., Edwards, Lily N., Hollis, Larry C., Houser, Terry A., and Jaeger, John R.** (Agricultural Research Center-Hays), The Darden Restaurants, Inc. Foundation, "Routine Exercise as an Alternative Method to Promote Cattle Well-being, Health, Productivity, and Beef Quality."

**Schmidt, Karen A., and Phebus, Randall K.**, Dairy Management, Inc., \$55,000, "RFDH: A Process Lethality Treatment that Imparts Unique Functionality."

**Smith, John F., and Bradford, Barry J.**, Elanco Animal Health, "Can rbST Mitigate the Metabolic Consequences of Inflammation?."

**Smith, John F., Bradford, Barry J., and Titgemeyer, Evan C.**, Grain States Soya, Inc., "Availability of Methionine from Soybest Products."

**Stevenson, Jeffrey S.**, Kansas Dairy Commission, \$5,000, "Enhancing First-Service Pregnancy Rates in Lactating Dairy Cows."

**Titgemeyer, Evan C., Bradford, Barry J., and Smith, John F.**, Grain States Soya, Inc., \$53,000, "Availability of Methionine from Soybest Products."

**Titgemeyer, Evan C., Bradford, Barry J., and Drouillard, James S.**, LignoTech USA, "Susceptibility of Acid Resin Treated Flaxseed to Ruminant Degradation and Implications for Milk Fatty Acid Profile of Lactating Dairy Cattle."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, Ajinomoto Heartland LLC, \$12,000, "Land O'Lakes Trial for 15 to 25 lb Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, Ajinomoto Heartland LLC, \$50,000, "Tryptophan to Lysine Ration for Nursery and Finisher Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, Archer Daniels Midland Company, \$75,000, "Effects of Vitamin E Level and Source (Natural vs Synthetic) on Sow Vitamin E Reserves and Milk Levels."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, Direct Biologicals, \$20,000, "The Use of Probiotic (Bacillus Product) in Diets for Growing and Finishing Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Nelssen, Jim L.**, Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."



**Tokach, Michael D., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Scott, Harvey M.** (Diagnostic Medicine/Pathobiology), National Pork Board, "Towards Controlling Antimicrobial Resistance in Swine Production Systems: Harnessing the Paradoxical Effects of Micro-Minerals and Feed-Grade Antimicrobials on Resistance in Enteric Bacteria."

**Tokach, Michael D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Nelssen, Jim L.**, Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, Pfizer, Inc., "Influence of DDGS Withdrawal Post Vaccination on Growth Performance, Carcass Characteristics, Fatty Acid Analysis and Iodine Value of Pork Fat Depots."

**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.**, Tech-Mix, "An Evaluation of the Effects of Liquitein on Weaning Pigs Administered a Mycoplasma/PCV2 Vaccine Regimen."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., and Nelssen, Jim L.**, The United Sorghum Checkoff Program Board, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., and Nelssen, Jim L.**, UP-A-NOTCH R&D, "Effects of PEP2+ and Fishmeal on Nursery Pig Performance."

#### **DEAN OF AGRICULTURE AND DIRECTOR OF AES**

**Lilja, Nina, Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

#### **ENTOMOLOGY**

**Beeman, Richard W., Arakane, Yasuyuki** (Biochemistry), **Kramer, Karl J.** (Biochemistry), and **Muthukrishnan, Subbarat** (Biochemistry), National Science Foundation, \$166,250, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**Buschman, Larry L., McCornack, Brian P., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael,** and **Whitworth, Robert "Jeff" J.**, Kansas Soybean Commission, \$53,262, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

**Buschman, Larry L.**, Multi-Sponsor, \$11,500, "Insecticide Management of Field Crop Insects in Southwestern Kansas."

**Buschman, Larry L., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Cloyd, Raymond A., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L., Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael, Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Chen, Ming-Shun, Gill, Bikram S.** (Plant Pathology), **Liu, Xuming**, and **Trick, Harold N.** (Plant Pathology), US Department of Agriculture, "Insect Effectors in Molecular Plant-Insect Interactions."

**Chen, Ming-Shun, McCornack, Brian P.,** and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, "iWheat: A Web-based IPM System for Winter Wheat in the Central and Southern Plains."

**Cloyd, Raymond A.**, Association of Specialty Cut Flower Growers Research Foundation, \$5,000, "Effect of Pesticide Mixtures on Arthropod Pests of Cut Flowers."

**Cloyd, Raymond A.**, Gloeckner Foundation, Inc. (Fred C.), \$8,000, "Effect of Sugar-based Compounds in Enhancing the Efficacy of Insecticides against the Western Flower Thrips, *Frankliniella occidentalis*."

**Cloyd, Raymond A., Reese, John C.,** and **Whitworth, Robert "Jeff" J.**, Multi- Sponsor, \$137,422, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

**Cloyd, Raymond A.**, Ohio Floriculture Association, \$3,200, "Ohio Floriculture Association Fellowship."

**Cloyd, Raymond A., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L., Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael, Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Harvey, Tom L.,** and **Michaud, John P.**, Multi-Sponsor, \$8,000, "Insecticide Management of Field Crop Insects."

**Kambhampati, Srinivas, Bolton, Timothy A.** (Physics), **Ferguson, Carolyn J.** (Biology), **Rebello, Nobel S.** (Physics), and **Totten, Iris M.** (Geology), National Science Foundation, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

**Liu, Xuming, Chen, Ming-Shun, Gill, Bikram S.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), US Department of Agriculture, \$63,062, "Insect Effectors in Molecular Plant-Insect Interactions."

**Marcus, Daniel C.**, US Department of Health and Human Services, "Epithelial Function in Health and Disease."

**McCornack, Brian P.**, Monsanto Company, \$14,600, "Evaluate Soybean Aphid, *Aphis glycines*, Development and Fecundity on Monsanto Germplasm (Service Order 29)."

**McCornack, Brian P.**, US Department of Agriculture, \$42,247, "Impact of Bioenergy Crops on Pests, Natural Enemies and Pollinators in Agricultural and Non-Crop Landscapes."

**McCornack, Brian P., Chen, Ming-Shun, and Whitworth, Robert "Jeff" J.**, US Department of Agriculture, \$507,387, "iWheat: A Web-based IPM System for Winter Wheat in the Central and Southern Plains."

**McCornack, Brian P.**, US Department of Agriculture, \$2,700, "Sequential Sampling and IPM Decision Aids for Headworm in Grain Sorghum."

**Michaud, John P., and Harvey, Tom L.**, Multi-Sponsor, "Insecticide Management of Field Crop Insects."

**Michaud, John P.**, National Sunflower Association, \$10,970, "Mitigation of Yield Losses to *Dectes texanus* in Rainfed Sunflowers."

**Miller, Frannie L., and Phillips, Thomas W.**, IPM Institute of North America, Inc., "Agreement Between the IPM Institute and Kansas State University on EQIP Pest Management Practices."

**Miller, Frannie L., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L., Cloyd, Raymond A., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael, Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Miller, Frannie L.**, US Department of Agriculture, \$56,192, "Pesticide Safety Education Program."

**Minton, J. Ernest**, US Department of Agriculture, \$4,400, "Acquisition of Goods and Services 58-5430-1-935."

**Minton, J. Ernest**, US Department of Agriculture, \$4,422, "Acquisition of Goods and Services Research Support Agreement # 58-5430-0-923."

**Minton, J. Ernest**, US Department of Agriculture, \$8,000, "Acquisition of Goods and Services Research Support Agreement #58-5430-0-924."

**Minton, J. Ernest**, US Department of Agriculture, \$1,785, "USDA/ARS Research Support Agreement #58-5430-9-913."

**Park, Yoonseong**, US Department of Agriculture, \$13,150, "Bioengineering of Insect Genomes and Related Applications in Management of Insect Populations."

**Park, Yoonseong**, US Department of Health and Human Services, \$293,040, "Signaling Pathways for Tick Salivary Secretion."

**Phillips, Thomas W., and Miller, Frannie L.**, IPM Institute of North America, Inc., \$6,000, "Agreement Between the IPM Institute and Kansas State University on EQIP Pest Management Practices."

**Phillips, Thomas W.**, US Department of Agriculture, \$10,250, "Alternatives to Methyl Bromide to Control Mites on Processed Ham."

**Phillips, Thomas W., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L., Cloyd, Raymond A., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L., Moyer, Joseph L.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael, Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, \$37,441, "Extension IPM Coordination Program for Kansas."

**Phillips, Thomas W.**, US Department of Agriculture, \$40,000, "Insect Pest Management in Stored Rice."

**Phillips, Thomas W.**, US Department of Agriculture, \$86,000, "Molecular Mechanisms of Wheat Resistance to the Hessian Fly."

**Phillips, Thomas W., Lilja, Nina** (International Agricultural Programs), and **Vadlani, Praveen V.** (Grain Science and Industry), US Department of Agriculture, \$22,898, "Norman Borlaug International Agricultural Sciences and Technology Fellowship Program--USDA (Egypt & South Africa)."

**Ramalho-Ortigao, Marcelo**, US Department of Health and Human Services, \$183,149, "Sand Fly Role in Transmission of CVL in North America."

**Reese, John C., Cloyd, Raymond A., and Whitworth, Robert "Jeff" J.**, Multi- Sponsor, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

**Reese, John C.**, US Department of Agriculture, \$3,850, "Acquisition of Goods and Services."

**Smith, C. Michael, Buschman, Larry L., McCornack, Brian P., Schapaugh Jr, William T.** (Agronomy), and **Whitworth, Robert "Jeff" J.**, Kansas Soybean Commission, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

**Smith, C. Michael, Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L., Cloyd, Raymond A., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L., Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W., Schapaugh Jr, William T.** (Agronomy), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.**, US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Whitworth, Robert "Jeff" J., Buschman, Larry L., McCornack, Brian P., Schapaugh Jr, William T.** (Agronomy), and **Smith, C. Michael**, Kansas Soybean Commission, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

**Whitworth, Robert "Jeff" J.**, Monsanto Company, \$11,449, "Processing of Cone beat sheet Samples Collected from US Canola Study During 2010."

**Whitworth, Robert "Jeff" J.**, Monsanto Company, \$8,250, "Processing of Vertical Beat Sheet Samples Collected from US Alfalfa Study, 2010."

**Whitworth, Robert "Jeff" J., Cloyd, Raymond A., and Reese, John C.**, Multi- Sponsor, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

**Whitworth, Robert "Jeff" J., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L., Cloyd, Raymond A., DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L., Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael, Smith, Jennifer A.** (County Agents - Metropolitan Sector), and **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Whitworth, Robert "Jeff" J., Chen, Ming-Shun, and McCornack, Brian P.,** US Department of Agriculture, "iWheat: A Web-based IPM System for Winter Wheat in the Central and Southern Plains."

**Zhu, Kun Yan, and Bhadriraju, Subramanyam** (Grain Science and Industry), US Department of Agriculture, \$391,010, "Evaluation, Integration, and Implementation of Non-Fumigation Based Pest Management Approaches for Food Processing Facilities."

**Zolnerowich, Gregory,** National Science Foundation, \$150,059, "Collaborative Research: Digitization TCN: ArthroNet 1.0--160 Years of Invertebrate Composition, Landscape Use & Change."

**Zurek, Ludek,** Winn Feline Foundation, \$5,000, "Intestinal Biofilm Formation by Enterococci in Kittens - Determining the Identity and Virulence Determinants of those Associated with Life and Death."

#### **FOOD SCIENCE INSTITUTE**

**Getty, Kelly J. K., Kastner, Curtis L., Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

**Kastner, Curtis L., Getty, Kelly J. K., Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$117,689, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

#### **GRAIN SCIENCE AND INDUSTRY**

**Alavi, Sajid, and Maichel, Eric W.,** Kansas Grain Sorghum Commission, \$37,140, "Novel Sorghum Based Food Products for Infant, Young Children and Adult Nutrition."

**Alavi, Sajid,** The United Sorghum Checkoff Program Board, \$59,450, "Sorghum Soy Blends (SSB) as a Food Aid Product."

**Alavi, Sajid,** The United Sorghum Checkoff Program Board, \$59,725, "Utilization of Sorghum Ingredients and Co-Products in Aquatic Animal Feed Production."

**Bhadriraju, Subramanyam, Maier, Dirk E., and McKinney, Leland,** Kansas Corn Commission, "Use of Carbon Dioxide Sensors for Early Detection of Spoilage in Stored Corn."

**Bhadriraju, Subramanyam,** Multi-Sponsor, \$33,000, "Grain Science."

**Bhadriraju, Subramanyam, Kennelly, Megan** (Plant Pathology), **Little, Christopher R.** (Plant Pathology), and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$4,920, "Cochran Fellowship Program."

**Bhadriraju, Subramanyam, and Zhu, Kun Yan** (Entomology), US Department of Agriculture, \$391,010, "Evaluation, Integration, and Implementation of Non-Fumigation Based Pest Management Approaches for Food Processing Facilities."

**Campabadal, Carlos, Fowler, Mark, Maier, Dirk E., and O'Neil III, Howard J.**, US Department of Agriculture, "Service Agreement."

**Channaiah, Lakshmikantha, and Maier, Dirk E.**, PureLine Treatment System, "Inhibition of *Aspergillus flavus*, *Aspergillus parasiticus*, *Fusarium culmorum*, *Fusarium graminearum* Growth and Detoxification of Aflatoxins and Deoxynivalenol (DON) in Wheat using Chlorine Dioxide (CO<sub>2</sub>)."

**Dogan, Hulya, and Faubion, Jon M.**, US Department of Agriculture, \$62,193, "Study of the Interactions of Bran with Gluten Proteins During Dough Development Using Rheology, Infrared Spectroscopy and Tomography."

**Faubion, Jon M., and Dogan, Hulya**, US Department of Agriculture, "Study of the Interactions of Bran with Gluten Proteins During Dough Development Using Rheology, Infrared Spectroscopy and Tomography."

**Fowler, Mark, and Maier, Dirk E.**, Colorado Wheat Administrative Committee, "International Grain Project Wheat Advisory Board."

**Fowler, Mark, Maier, Dirk E., and O'Neil III, Howard J.**, Kansas Corn Commission, "Market Development Grant - International Grains Program."

**Fowler, Mark, Maier, Dirk E., and O'Neil III, Howard J.**, Kansas Grain Sorghum Commission, "Market Development Grant - International Grains Program."

**Fowler, Mark, Maier, Dirk E., and O'Neil III, Howard J.**, Kansas Soybean Commission, "Market Development Grant - International Grains Program."

**Fowler, Mark, and Maier, Dirk E.**, US Department of Agriculture, "India Central Warehousing Corporation Program."

**Fowler, Mark, Frey, David E., and Maier, Dirk E.**, US Department of Agriculture, "Jordanian Agricultural Marketing Cochran Fellowship Program."

**Fowler, Mark, and Maier, Dirk E.**, US Department of Agriculture, "Nigerian Agricultural Marketing Cochran Fellowship Program."

**Fowler, Mark, Campabadal, Carlos, Maier, Dirk E., and O'Neil III, Howard J.**, US Department of Agriculture, "Service Agreement."

**Frey, David E., Fowler, Mark, and Maier, Dirk E.**, US Department of Agriculture, "Jordanian Agricultural Marketing Cochran Fellowship Program."

**Gwartz, Jeffrey A., and Miller, Rebecca**, Kansas Grain Sorghum Commission, "Sorghum Flour Processing and Development of Sorghum-based Gluten-Free Baked Products."

**Madl, Ronald L., Kramer, Bradley A.** (Advanced Manufacturing Institute), **Richardson, Daniel C.** (K-State Olathe Innovation Campus), **Trewyn, R. W.** (Office of the Provost), and **Tucker, Jeffrey W.** (Advanced Manufacturing Institute), National Science Foundation, \$139,922 (includes \$19,928 from KTEC), "Kansas Bioprocessing Science and Engineering Center."

**Madl, Ronald L.**, US Department of Education, \$14,120, "Integral Valorization of Bio- Production."

**Madl, Ronald L.**, and **Rezac, Mary E.** (Chemical Engineering), US Department of Energy, "Kansas State University Center for Sustainable Energy."

**Madl, Ronald L.**, **Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$7,000, "Bio-Oil From Pyrolysis of Sorghum Biomass."

**Maichel, Eric W.**, and **Alavi, Sajid**, Kansas Grain Sorghum Commission, "Novel Sorghum Based Food Products for Infant, Young Children and Adult Nutrition."

**Maier, Dirk E.**, and **Fowler, Mark**, Colorado Wheat Administrative Committee, \$10,000, "International Grain Project Wheat Advisory Board."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 551 Course Development Facilitaion."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 550 Course Development Facilitation."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 524 Course Development Facilitation."

**Maier, Dirk E.**, **Fowler, Mark**, and **O'Neil III, Howard J.**, Kansas Corn Commission, \$75,000, "Market Development Grant - International Grains Program."

**Maier, Dirk E.**, **Bhadriraju, Subramanyam**, and **McKinney, Leland**, Kansas Corn Commission, \$28,760, "Use of Carbon Dioxide Sensors for Early Detection of Spoilage in Stored Corn."

**Maier, Dirk E.**, **Fowler, Mark**, and **O'Neil III, Howard J.**, Kansas Grain Sorghum Commission, \$20,000, "Market Development Grant - International Grains Program."

**Maier, Dirk E.**, **Fowler, Mark**, and **O'Neil III, Howard J.**, Kansas Soybean Commission, \$75,000, "Market Development Grant - International Grains Program."

**Maier, Dirk E.**, and **Channaiah, Lakshmikantha**, PureLine Treatment System, \$19,647, "Inhibition of Aspergillus flavus, Aspergillus parasiticus, Fusarium culmorum, Fusarium graminearum Growth and Detoxification of Aflatoxins and Deoxynivalenol (DON) in Wheat using Chlorine Dioxide (CO<sub>2</sub>)."

**Maier, Dirk E.**, and **Fowler, Mark**, US Department of Agriculture, \$12,725, "India Central Warehousing Corporation Program."

**Maier, Dirk E.**, **Fowler, Mark**, and **Frey, David E.**, US Department of Agriculture, \$14,779, "Jordanian Agricultural Marketing Cochran Fellowship Program."

**Maier, Dirk E.**, and **Fowler, Mark**, US Department of Agriculture, \$18,962, "Nigerian Agricultural Marketing Cochran Fellowship Program."

**Maier, Dirk E.**, **Campabadal, Carlos**, **Fowler, Mark**, and **O'Neil III, Howard J.**, US Department of Agriculture, \$15,600, "Service Agreement."

**McKinney, Leland, Bhadriraju, Subramanyam, and Maier, Dirk E.**, Kansas Corn Commission, "Use of Carbon Dioxide Sensors for Early Detection of Spoilage in Stored Corn."

**Miller, Rebecca, and Gwartz, Jeffrey A.**, Kansas Grain Sorghum Commission, \$25,000, "Sorghum Flour Processing and Development of Sorghum-based Gluten-Free Baked Products."

**O'Neil III, Howard J., Fowler, Mark, and Maier, Dirk E.**, Kansas Grain Sorghum Commission, "Market Development Grant - International Grains Program."

**O'Neil III, Howard J., Fowler, Mark, and Maier, Dirk E.**, Kansas Soybean Commission, "Market Development Grant - International Grains Program."

**O'Neil III, Howard J., Campabadal, Carlos, Fowler, Mark, and Maier, Dirk E.**, US Department of Agriculture, "Service Agreement."

**Shi, Yong Cheng**, Kansas Grain Sorghum Commission, \$27,167, "Developing Sorghum Flours with Increased Resistant Starch Content for Health Benefits."

**Shi, Yong Cheng, Aramouni, Fadi M.** (Animal Sciences and Industry), and **Haub, Mark D.** (Human Nutrition), The United Sorghum Checkoff Program Board, "Sorghum as a Super Health Food II. Starch Digestibility and Glycemic Index of Sorghum Based Foods."

**Shi, Yong Cheng**, Wm. Wrigley Jr. Company, \$121,628, "Sponsored Research Agreement- Starch Derivatives."

**Vadlani, Praveen V.**, Consortium for Plant Biotechnology Research, Inc., \$40,000, "Paper Mill Waste Bioconversion to High-Value Products."

**Vadlani, Praveen V., Lilja, Nina** (International Agricultural Programs), and **Phillips, Thomas W.** (Entomology), US Department of Agriculture, \$22,898, "Norman Borlaug International Agricultural Sciences and Technology Fellowship Program--USDA (Egypt & South Africa)."

**Vadlani, Praveen V., and Hohn, Keith L.** (Chemical Engineering), US Department of Defense, \$10,601, "Novel Process to Biomass Conversion to Butylenes."

## **HORTICULTURE, FORESTRY AND RECREATION RESOURCES**

**Barden, Charles J., and Boyer, Cheryl R.**, US Department of Agriculture, \$63,425, "Culturally Important Plants: New Propagation Techniques for Declining Populations."

**Barden, Charles J., and DeRouchey, Joel M.** (Animal Sciences and Industry), US Department of Agriculture, \$95,612, "Heartland Regional Water Coordination Initiative."

**Boyer, Cheryl R., and Barden, Charles J.**, US Department of Agriculture, "Culturally Important Plants: New Propagation Techniques for Declining Populations."

**Boyer, Cheryl R.**, US Department of Agriculture, \$43,902, "Development of Alternative Substrates for Container Nursery Crops."



**Boyer, Cheryl R., Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents- Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.,** and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Bremer, Dale J., Fry, Jack D., Griffin, Jason,** and **Keeley, Steven J.,** Multi-Sponsor, "Turfgrass Investigations."

**Fry, Jack D., Bremer, Dale J., Griffin, Jason,** and **Keeley, Steven J.,** Multi-Sponsor, \$64,000, "Turfgrass Investigations."

**Fry, Jack D.,** National Turfgrass Federation, \$1,500, "Turfgrass Testing."

**Griffin, Jason, Bremer, Dale J., Fry, Jack D.,** and **Keeley, Steven J.,** Multi-Sponsor, "Turfgrass Investigations."

**Griffin, Jason,** Schmidt, J. Frank, Family Charitable Foundation, \$4,000, "Evaluation of Ornamental Species for the Great Plains."

**Keeley, Steven J., Bremer, Dale J., Fry, Jack D.,** and **Griffin, Jason,** Multi-Sponsor, "Turfgrass Investigations."

**Park, Sunghun,** National Horticultural Research Institute, Republic of Korea, \$40,000, "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.,** US Department of Agriculture, \$6,000, "Advancement of American Elderberry as a Missouri Specialty Crop by Elucidating its Pest and Disease Complex."

**Rivard, Cary L.,** The Ceres Trust, \$10,000, "Implementation of Novel Grafting Methods and Rootstocks for Organic Tomato Growers in the Midwest (Graduate Student - Sarah Masterson)."

**Rivard, Cary L., Bhadriraju, Subramanyam** (Grain Science and Industry), **Kennelly, Megan** (Plant Pathology), and **Little, Christopher R.** (Plant Pathology), US Department of Agriculture, \$984, "Cochran Fellowship Program."

**Shoemaker, Candice A.,** US Department of Agriculture, \$12,060, "ThinkSpace Case Creation."

**Upham, Ward S., Boyer, Cheryl R., Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

**Williams, Kimberly A.,** Gloeckner Foundation, Inc. (Fred C.), \$2,600, "eGRO-Electronic Grower Resources Online."

**Williams, Kimberly A.**, Gloeckner Foundation, Inc. (Fred C.), \$10,800, "Understanding the Role of Microbial Activity on Nutrient Availability from Organic Fertilizers Applied to Soilless Root Media."

**Williams, Kimberly A.**, Multi-Sponsor, \$4,050, "Floriculture Research."

### **INTERNATIONAL AGRICULTURAL PROGRAMS**

**Lilja, Nina, Phillips, Thomas W.** (Entomology), and **Vadlani, Praveen V.** (Grain Science and Industry), US Department of Agriculture, \$3,982, "Norman Borlaug International Agricultural Sciences and Technology Fellowship Program--USDA (Egypt & South Africa)."

### **KANSAS CENTER FOR AGRICULTURAL RESOURCES AND THE ENVIRONMENT / KANSAS WATER RESOURCE RESEARCH INSTITUTE**

**Devlin, Daniel L., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$122,813, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Devlin, Daniel L., Atchison, Robert L.** (Kansas Forest Service), and **Presley, DeAnn R.** (Agronomy), US Department of the Interior, \$27,701, "FY 2011 Kansas Water Resources Research Institute."

**Devlin, Daniel L., and Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$16,500, "Kansas PRIDE Program - Tuttle Creek Watershed."

**Devlin, Daniel L.**, US Environmental Protection Agency, \$40,000, "Smoke Management Plan - Outreach, Education, and Public Notification Activities."

**Devlin, Daniel L.**, US Environmental Protection Agency, \$74,709 (includes \$20,470 from Subcontractors/cooperators), "Upper Lower Smoky Hill River Watershed WRAPS Implementation - Yr 1."

**Devlin, Daniel L.**, US Environmental Protection Agency, \$34,025 (includes \$6,525 from cooperator support), "Upper Timber Creek Assessment and Planning."

**Graham, Steven M., and Devlin, Daniel L.** (Agronomy), Kansas Department of Health and Environment, \$102,287 (includes \$16,580 from cooperator support), "KS WRAPS - Marais des Cygnes River Basin."

**Graham, Steven M., and Devlin, Daniel L.** (Agronomy), Kansas Department of Health and Environment, \$78,585 (includes \$10,744 from cooperator support), "KS WRAPS - Watershed Specialist Lower Kansas (Boyer)."

**Graham, Steven M., Barnes, Philip L.** (Biological and Agricultural Engineering), and **Devlin, Daniel L.** (Agronomy), Kansas Department of Health and Environment, \$134,108 (includes \$31,839 from cooperator support), "Little Arkansas WRAPS Implementation."

**Graham, Steven M., Harner III, Joseph P.** (Biological and Agricultural Engineering), and **Maghirang, Ronaldo G.** (Biological and Agricultural Engineering), US Department of Agriculture, "Air Quality: Reducing Emissions from Cattle Feedlots and Dairies in TX and KS."

**Graham, Steven M., and Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$16,931, "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

#### **NORTHWEST RESEARCH EXTENSION CENTER**

**Aiken, Robert M., and Perumal, Ramasamy** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, \$3,542, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

**Aiken, Robert M.,** Monsanto Company, \$18,900, "Academic - Agronomic Systems in Dryland WGP / Planting Date."

**Aiken, Robert M.,** Monsanto Company, \$18,900, "Academic - Agronomic Systems in Dryland WGP / Residue Management."

**Aiken, Robert M.,** Monsanto Company, \$24,000, "Agronomic Systems Management for Drought: Residue Management and Planting Date."

**Aiken, Robert M.,** National Sunflower Association, \$5,200, "Development of Resistance to Stem and Seed Insect Pests of Sunflower in the Central Plains."

**Aiken, Robert M., Lamm, Freddie R., and O'Brien, Daniel M.** (Northwest Area Office), National Sunflower Association, "Managing Deficit Sprinkler Irrigation for Sunflower Production."

**Aiken, Robert M., Heer, William F.** (Agronomy), and **Schlegel, Alan J.** (Southwest Research Extension Center), National Sunflower Association, \$9,000, "Row Spacing and Population Effects on Double-Cropped Sunflower Productivity."

**Aiken, Robert M., Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R., Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$118,578, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Coyne, Patrick J.,** Multi-Sponsor, \$17,040, "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., Aiken, Robert M., and O'Brien, Daniel M.** (Northwest Area Office), National Sunflower Association, \$7,840, "Managing Deficit Sprinkler Irrigation for Sunflower Production."

**Lamm, Freddie R.,** Syngenta Crop Protection, LLC, \$167,700, "Research and Materials Transfer Agreement."

**Lamm, Freddie R., Aiken, Robert M., Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

#### **OFFICE OF ACADEMIC PROGRAMS**

**Boggs, Donald L.**, Kansas FFA Foundation, \$76,076, "FFA Foundation Executive Director."

**Kane, Mary R.**, US Department of Education, \$74,134, "FFA-YF/YFW Organization."

#### **PLANT PATHOLOGY**

**Akhunov, Eduard D., Gill, Bikram S., and White, Frank F.**, Kansas Bioscience Authority, "Trait Discovery Pipeline for Wheat."

**Akhunov, Eduard D., and Pagadala, P.V. Vara** (Agronomy), US Department of Agriculture, \$171,740, "Improving Barley and Wheat Germplasm for Changing Environments."

**Bockus, William W., Rotenberg, Dorith, and Whitfield, Anna E.**, Heartland Plant Innovations, Inc., "Enabling Biotechnological Breakthroughs for Effective Control of Wheat Virus Diseases in Kansas."

**Bockus, William W.**, Multi-Sponsor, \$24,600, "Seed Treatment."

**Bockus, William W.**, US Department of Agriculture, \$92,900, "Mapping and Deployment of QTL for Wheat Resistance to Fusarium Head Blight (FHB)."

**DeWolf, Erick D.**, Multi-Sponsor, \$2,250, "Winter Wheat Seed Treatment Tests."

**DeWolf, Erick D., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan, McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

**DeWolf, Erick D.**, US Department of Agriculture, \$48,045, "Prediction Models and Improved Pre-Harvest Estimates of Deoxynivalenol."

**Friebe, Bernd**, Kansas Crop Improvement Association, \$6,800, "Transfer of New Sources of Barley Yellow Dwarf Resistance from Haynaldia villosa to Adapted Kansas Winter Wheats."

**Garrett, Karen A.**, Consultative Group on International Agricultural Research, \$15,000, "Agricultural Disease and Pests Under Climate Variation and Change."

**Garrett, Karen A.**, International Potato Center, \$50,000, "Strengthening CIP's Capacity for Risk and Impact Assessment Related to Potato Late Blight."

**Garrett, Karen A., Jumpponen, Ari M.** (Biology), and **Kennelly, Megan**, The Ceres Trust, \$19,688, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

**Garrett, Karen A.**, and **Jumpponen, Ari M.** (Biology), The Ceres Trust, \$10,000, "Soil Microbes in Organic Vegetable Production: Capturing the Active Players."

**Garrett, Karen A., Jumpponen, Ari M.** (Biology), and **Kennelly, Megan**, The Ceres Trust, \$34,107, "The Response of Soil Microbial Communities to Organic and Conventional Fertilization."

**Garrett, Karen A.**, University of Copenhagen, \$40,000, "Challenge Program on Climate Change, Agriculture and Food."

**Garrett, Karen A., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$6,907, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Garrett, Karen A.**, US Agency for International Development, \$36,414, "LTRA 4 Adapting to Change in the Andes: Practices and Strategies for Vulnerable Ecosystems."

**Gill, Bikram S., Akhunov, Eduard D.**, and **White, Frank F.**, Kansas Bioscience Authority, \$500,000, "Trait Discovery Pipeline for Wheat."

**Gill, Bikram S.**, Monsanto Company, \$62,490, "Methodology for Efficient Mapping of Alien Introgression for Adult Plant Resistance to Leaf Rust and Other Agronomic Traits in Wheat-Aegilops Tauschii Hybrids - (Bahnu Kalia, Graduate Student)."

**Gill, Bikram S.**, National Science Foundation, \$225,158, "Physical Mapping of the Wheat D Genome."

**Gill, Bikram S.**, and **Friebe, Bernd**, US Department of Agriculture, \$29,991, "Alien Chromosome Engineering and the Deployment of a Novel Source of Fusarium Head Blight Resistance in Wheat."

**Gill, Bikram S.**, US Department of Agriculture, \$153,171, "Chromosome Engineering of Stem Rust Resistance in Wheat."

**Gill, Bikram S., Chen, Ming-Shun** (Entomology), **Liu, Xuming** (Entomology), and **Trick, Harold N.**, US Department of Agriculture, "Insect Effectors in Molecular Plant- Insect Interactions."

**Jardine, Douglas J., Duncan, Stewart R.** (Northeast Area Office), **Shoup, Douglas E.** (Southeast Area Office), and **Todd, Timothy C.**, Kansas Soybean Commission, \$9,320, "Kansas Soybean Cyst Nematode Survey."

**Jardine, Douglas J.**, Multi-Sponsor, \$11,500, "Soybean Foliar Fungicide and Seed Treatment Tests."

**Jardine, Douglas J.**, North Central Soybean Research Program, \$41,000, "Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach."

**Jardine, Douglas J.**, and **Little, Christopher R.**, North Central Soybean Research Program, \$44,000, "Managing Frogeye Leaf Spot and Charcoal Rot in the North Central Region."

**Jardine, Douglas J.**, US Department of Agriculture, \$2,585, "Continued Development of the IPM PIPE 2010: Legume PIPE Field and Laboratory Sampling."

**Jardine, Douglas J.**, US Department of Agriculture, \$62,500, "Integrated Management of Oomycete Diseases of Soybean and other Crop Plants."

**Kennelly, Megan**, Multi-Sponsor, \$24,889, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

**Kennelly, Megan, Garrett, Karen A., and Jumpponen, Ari M.** (Biology), The Ceres Trust, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

**Kennelly, Megan, Garrett, Karen A., and Jumpponen, Ari M.** (Biology), The Ceres Trust, "The Response of Soil Microbial Communities to Organic and Conventional Fertilization."

**Kennelly, Megan, Bhadriraju, Subramanyam** (Grain Science and Industry), **Little, Christopher R.**, and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$13,775, "Cochran Fellowship Program."

**Kennelly, Megan, Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.**, **Dickman, Holly** (County Agents-Northwest Sector), **McCornack, Brian P.**, **McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Leslie, John F.**, and **Poland, Jesse A.** (Agronomy), Monsanto Company, \$187,745, "Monsanto's Beachell-Borlaug International Scholars Program (Sandra Dunkel's PhD Study)."

**Leslie, John F.**, Multi-Sponsor, \$218,131, "Fusarium Research."

**Leslie, John F.**, US Agency for International Development, \$105,000, "Grain Molds, Mycotoxins and Stalk Rots of Sorghum and Millet."

**Little, Christopher R., Martin, Kent L.**, and **Presley, DeAnn R.** (Agronomy), Kansas Corn Commission, \$8,497, "Vertical Tillage Effects on Corn Yield, Residue Decomposition, Disease and Pathogens, and Soil Properties."

**Little, Christopher R., Perumal, Ramasamy** (Agricultural Research Center-Hays), and **Tesso, Tesfaye** (Agronomy), Kansas Grain Sorghum Commission, \$11,473, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

**Little, Christopher R.**, and **Todd, Timothy C.**, Kansas Soybean Commission, \$35,829, "Understanding Soybean Seed, Seedling and Root Pathogens in Kansas."

**Little, Christopher R.**, and **Jardine, Douglas J.**, North Central Soybean Research Program, "Managing Frogeye Leaf Spot and Charcoal Rot in the North Central Region."

**Little, Christopher R.**, The United Sorghum Checkoff Program Board, \$27,195, "Grain Quality of White Food Grade Sorghum Lines."

**Little, Christopher R.**, United Soybean Board, \$60,000, "Charcoal Rot Cultivar Evaluation Using Adapted and Exotic Sources of Resistance."

**Little, Christopher R., Bhadriraju, Subramanyam** (Grain Science and Industry), **Kennelly, Megan**, and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, "Cochran Fellowship Program."

**Minton, J. Ernest**, US Dept of Agriculture, \$7,920, "Acquisition of Good and Services 58-5430-1-938."

**Minton, J. Ernest**, US Dept of Agriculture, \$29,040, "Acquisition of Good and Services 58-5430-1-939."

**Minton, J. Ernest**, US Department of Agriculture, \$36,960, "Acquisition of Goods and Services - Research Support Agreement #58-5430-0-925."

**Rotenberg, Dorith, Bockus, William W.**, and **Whitfield, Anna E.**, Heartland Plant Innovations, Inc., \$200,000, "Enabling Biotechnological Breakthroughs for Effective Control of Wheat Virus Diseases in Kansas."

**Stack, James P.**, US Department of Agriculture, \$853,182, "Great Plains Diagnostic Network."

**Stack, James P.**, US Department of Agriculture, \$75,000, "Great Plains Diagnostic Network."

**Stack, James P.**, US Department of Agriculture, \$75,000, "Plant Diagnostic Laboratories for Plant Disease and Pest Diagnosis and Surveillance."

**Todd, Richard**, National Science Foundation, \$126,009, "The Mechanism of Regulated Nuclear Export of the *Aspergillus Nidulans* Nitrogen Transcription Factor AreA."

**Todd, Richard**, US Department of Health and Human Services, \$32,500, "The Mechanism of Action of the Transcriptional Repressor NmrA."

**Todd, Richard**, and **Valent, Barbara S.**, US Department of Health and Human Services, \$7,313, "The Mechanism of Action of the Transcriptional Repressor NmrA (Mentor)."

**Todd, Timothy C., Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, "Enhancement of Soybean Through Genetic **Todd, Timothy C., Duncan, Stewart R.** (Northeast Area Office), **Jardine, Douglas J.**, and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, "Kansas Soybean Cyst Nematode Survey."

**Todd, Timothy C., Kusel, Kelly R.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$100,729, "Trait and Production Efficiency Enhancement in Soybean."

**Todd, Timothy C.**, and **Little, Christopher R.**, Kansas Soybean Commission, "Understanding Soybean Seed, Seedling and Root Pathogens in Kansas."

**Toomajian, Christopher**, National Science Foundation, \$73,322, "Arabidopsis 2010: Transcriptomes for Functional and Evolutionary Studies."

**Trick, Harold N., Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, \$75,914, "Enhancement of Soybean Through Genetic Engineering."

**Trick, Harold N., Kusel, Kelly R.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, "Trait and Production Efficiency Enhancement in Soybean."

**Trick, Harold N.**, United Soybean Board, \$63,682, "Center for Soybean Tissue Culture and Genetic Engineering: Engineering Soybean for Effective Resistance to Soybean Cyst Nematode."

**Trick, Harold N.**, United Soybean Board, \$69,387, "Host-delivered siRNA for Nematode Resistance: Identification and Evaluation of Fertility and Fitness Genes."

**Trick, Harold N.**, US Department of Agriculture, \$22,184, "Exploring the Role of Ethylene Signaling in Fusarium Head Blight (FHB) Resistance and Susceptibility."

**Trick, Harold N., Chen, Ming-Shun** (Entomology), **Gill, Bikram S.**, and **Liu, Xuming** (Entomology), US Department of Agriculture, \$63,062, "Insect Effectors in Molecular Plant-Insect Interactions."

**Valent, Barbara S.**, US Agency for International Development, \$10,000, "Memorandum of Agreement."

**Valent, Barbara S.**, and **Todd, Richard**, US Department of Health and Human Services, "The Mechanism of Action of the Transcriptional Repressor NmrA (Mentor)."

**White, Frank F., Akhunov, Eduard D.**, and **Gill, Bikram S.**, Kansas Bioscience Authority, "Trait Discovery Pipeline for Wheat."

**White, Frank F.**, National Science Foundation, \$1,038,395, "Collaborative Research CEPR: Transcription Profiling and Functional Analyses of Bacterial Disease Susceptibility Pathways of Rice."

**Whitfield, Anna E.**, Biotechnology Research and Development Corporation, \$90,102, "Targeting Thrips and Tospoviruses with Bt Toxins."

**Whitfield, Anna E., Bockus, William W.**, and **Rotenberg, Dorith**, Heartland Plant Innovations, Inc., "Enabling Biotechnological Breakthroughs for Effective Control of Wheat Virus Diseases in Kansas."

#### **SOUTHEAST AGRICULTURAL RESEARCH CENTER**

**Kusel, Kelly R., Schapaugh Jr, William T.** (Agronomy), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$33,576, "Trait and Production Efficiency Enhancement in Soybean."

**Moyer, Joseph L.**, Multi-Sponsor, \$7,000, "Southeast Kansas Crop Performance Testing Program."

**Moyer, Joseph L., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."



## **SOUTHWEST RESEARCH EXTENSION CENTER**

**Currie, John A., Dumler, Troy** (Southwest Area Office), **Maddux, Larry D.** (Agronomy), **Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J., Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Currie, Randall S.**, Multi-Sponsor, \$40,700, "Weed Control Research in Southwest Kansas."

**Holman, Johnathon D.**, Ceres, Inc., \$6,500, "Switchgrass Variety Evaluation Trial."

**Holman, Johnathon D., Martin, Kent L., Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Schlegel, Alan J.**, Kansas Grain Sorghum Commission, "Effect of Manure, Iron and Zinc Applications Methods on Grain Sorghum Yield."

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

**Holman, Johnathon D., Martin, Kent L.** (Southwest Area Office), **Shoup, Douglas E.** (Southeast Area Office), and **Stamm, Michael J.** (Agronomy), US Canola Association, \$6,400, "Promote Canola Acres in the Great Plains."

**Holman, Johnathon D., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Klocke, Norman L., Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J., Staggborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$93,169, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Klocke, Norman L., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D., Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J., Staggborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Martin, Kent L., Holman, Johnathon D., Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Schlegel, Alan J.**, Kansas Grain Sorghum Commission, \$13,800, "Effect of Manure, Iron and Zinc Applications Methods on Grain Sorghum Yield."

**Martin, Kent L., Mengel, David B.** (Agronomy), **Pagadala, P.V. Vara** (Agronomy), **Tesso, Tesfaye** (Agronomy), and **Yu, Jianming** (Agronomy), The United Sorghum Checkoff Program Board, "Enhancing Sorghum Nitrogen Use Efficiency Through Breeding, Genetics and Fertilizer Management in Kansas."

**Schlegel, Alan J., Holman, Johnathon D., Martin, Kent L., and Ruiz Diaz Suarez, Dorivar A.** (Agronomy), Kansas Grain Sorghum Commission, "Effect of Manure, Iron and Zinc Applications Methods on Grain Sorghum Yield."

**Schlegel, Alan J., Currie, John A., Dumler, Troy** (Southwest Area Office), **Maddux, Larry D.** (Agronomy), **Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Schlegel, Alan J., and Holman, Johnathon D.**, Multi-Sponsor, \$99,027, "Soil Fertility and Soil Management Research for Western Kansas."

**Schlegel, Alan J., Aiken, Robert M.** (Northwest Research Extension Center), and **Heer, William F.** (Agronomy), National Sunflower Association, "Row Spacing and Population Effects on Double-Cropped Sunflower Productivity."

**Schlegel, Alan J.**, Syngenta Seeds, Inc., \$123,300, "Research Testing Project - Influence of Native Trait Water Optimization Alleles on Hybrid Performance and Response to QuiltXcel fungicide™, Plant Density, and Water Regime."

**Schlegel, Alan J., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D., Klocke, Norman L., Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Dept of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Waggoner, Justin, and Jaeger, John R.** (Agricultural Research Center-Hays), Kansas Corn Commission, \$15,210, "Cover Systems for Wet Distiller's Grain Stored in Concrete Bunkers."

## COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

### LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING

**Kim, Jae Hong**, LEAMgroup, Inc., \$13,500, "Regional Economic Model Rebuilding for the St. Louis Metropolitan Area."

**Skabelund, Lee R.**, US Environmental Protection Agency, \$23,254 (includes \$5,654 from cooperator support), "CWN: Green Roof Demonstration Project."

**Skabelund, Lee R.**, US Environmental Protection Agency, \$23,254 (includes \$5,654 from cooperator support), "CWN: Sunset Zoo Bio-Retention Demonstration Project."

## COLLEGE OF ARTS AND SCIENCES

### BIOCHEMISTRY

**Arakane, Yasuyuki, Beeman, Richard W.** (Entomology), **Kramer, Karl J., and Muthukrishnan, Subbarat**, National Science Foundation, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**Chen, Jianhan**, National Science Foundation, \$136,404, "CAREER: Implicit Modeling of Non-polar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins."

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

**Davis, Lawrence C.**, and **Erickson, Larry E.** (Chemical Engineering), Mango Remediation, \$25,000, "Remediation of Chlorinated Solvents in Soil and Groundwater."

**Davis, Lawrence C., Erickson, Larry E.** (Center for Hazardous Substance Research), **Hettiarachchi, Ganga M.** (Agronomy), and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), Westar Energy, \$17,378, "Westar Wetlands Project."

**Kanost, Michael R.**, US Department of Health and Human Services, \$336,520, "Proteinase Systems in Insect Hemolymph."

**Kanost, Michael R., Culbertson, Christopher T.** (Chemistry), and **Michel, Kristin** (Biology), US Department of Health and Human Services, \$95,452, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

**Kramer, Karl J., Arakane, Yasuyuki, Beeman, Richard W.** (Entomology), and **Muthukrishnan, Subbarat**, National Science Foundation, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**Krishnamoorthi, Ramaswamy**, NanoScale Corporation, \$35,900, "ECHRP Project."

**Muthukrishnan, Subbarat, Arakane, Yasuyuki, Beeman, Richard W.** (Entomology), and **Kramer, Karl J.**, National Science Foundation, \$498,750, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**Reeck, Gerald R.**, US Department of Health and Human Services, \$10,514, "Armet Ligands in Anti-Cancer Drug Development."

**Tomich, John M., Chen, Jianhan,** and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$268,973, "Model Synthetic Channel Assemblies."

**Zolkiewski, Michal**, Dystonia Medical Research Foundation, \$32,500, "A Yeast Expression System to Uncover Fundamental Aspects of TorsinA Function."

## **BIOLOGY**

**Asano, Katsura,** and **Roelofs, Jeroen**, US Department of Health and Human Services, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle (Mentor)."

**Blair, John M.**, National Science Foundation, \$1,204,887, "Konza Prairie LTER VI: Grassland Dynamics and Long-Term Trajectories of Change."

**Briggs, John M., Goodin, Douglas G.** (Geography), **Joern, Anthony, Skibbe, Adam M.,** and **Towne, Earl G.**, National Science Foundation, "Impacts of Spatially Heterogeneous Nitrogen to Grazer Distribution and Activity: Effects of Ecosystem Function in Tallgrass Prairie."

**Brown, Susan J., Denell, Robin E.,** and **Shippy, Teresa D.**, US Department of Health and Human Services, \$270,904, "Genetic Control of Segmentation."

**Brown, Susan J.**, US Department of Health and Human Services, \$157,680, "KSU Bioinformatics Core."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$27,100, "(7) ARRA Scholars (Cikanek, Hull, Hunter, Jones, Kinney, Laudick, Rayl)."

**Chapes, Stephen K.**, and **Von Ohlen, Tonia L.**, US Department of Health and Human Services, \$183,150, "Definition of Host Genes Required for Intracellular Pathogen Growth."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$10,000, "Faculty Scholar Award."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$10,750, "Star Trainee - Emily Archer Slone."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$10,750, "STAR Trainees: Kristina Bigelow."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$14,450, "Summer Scholars: D. Miles; C. Roach; L. Wark; C. Quick."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$52,560, "Undergraduate Coordinator Office."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$13,000, "Undergraduate Coordinator Office Outstanding Mentor Award - S. K. Chapes."

**Clem, Rollie J.**, Agricultural Research Foundation, \$12,100, "Ning Huang Salar Support."

**Conrad, Gary W.**, US Department of Health and Human Services, \$351,648, "Fibroblast Differentiation During Eye Development."

**Conrad, Gary W.**, US Department of Health and Human Services, \$51,326, "ROBO-SLIT Signaling in Avian Cornea Innervation - Ruth L. Kirschstein NRSA Award (Robert Tyler Schwend)."

**Cully, Jr., Jack F.**, US Department of Agriculture, \$5,600, "Cibola National Forest/Kansas State University 10.25 Challenge Cost Share Grant, 2009 at Kiowa/Rita Blanca National Grasslands."

**Cully, Jr., Jack F.**, US Department of the Interior, \$20,000, "Status and Management of Black-tailed Prairie Dogs on Small Cultural Parks of the Western Great Plains."

**Denell, Robin E., Brown, Susan J., and Shippy, Teresa D.**, US Department of Health and Human Services, "Genetic Control of Segmentation."

**Dodds, Walter K.**, Missouri Department of Conservation, \$38,000, "Ecological Integrity of Prairie Streams as Influenced by Patchburn Grazing and Riparian Protection."

**Ferguson, Carolyn J., Bolton, Timothy A.** (Physics), **Kambhampati, Srinivas** (Entomology), **Rebello, Nobel S.** (Physics), and **Totten, Iris M.** (Geology), National Science Foundation, \$552,021, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

**Fleming, Sherry D.**, American Heart Association, Midwest Affiliate, \$143,000, "TLR2 Responses in Hemorrhage."

**Fleming, Sherry D.**, US Department of Health and Human Services, \$315,846, "Natural Antibodies and Tissue Injury."

**Gido, Keith B.**, Kansas Academy of Science, \$1,000, "Influence of Stream Fragmentation on the Abundance and Distribution of a Rare Great Plains Fish Community (Student Research Grant - Joshua S. Perkin)."

**Gido, Keith B.**, Kansas Academy of Science, \$1,000, "Linking Fishes and the Environment in Prairie Streams: An Analysis on the Complicated Web of Interactions that Defines a System (Student Research Grant - Erika C. Martin)."

**Gido, Keith B.**, New Mexico, State of, \$45,157, "Stream Fish Assemblaged Monitoring Data and Decision-Support Model for Enhanced Critical Conservation Decision-Making in New Mexico."

**Gido, Keith B.**, US Department of the Interior, \$34,118, "Mapping the Occurrence of Stream Obstructions in the State of Kansas."

**Govind, Revathi, and Rintoul, David A.**, US Department of Health and Human Services, "Revathi Govind Start-up Package."

**Hancock, Lynn E.**, US Department of Health and Human Services, \$293,040, "The Regulation of Autolysis in *Enterococcus Faecalis*."

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

**Haukos, David**, US Department of the Interior, \$326,681, "Development of Conservation and Climate Adaptation Strategies for Wetlands in the Great Plains LCC Region."

**Herman, Michael A., Joern, Anthony, Johnson, Loretta C., and Sandercock, Brett K.**, US Department of Education, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

**Joern, Anthony, Briggs, John M., Goodin, Douglas G.** (Geography), **Skibbe, Adam M., and Towne, Earl G.**, National Science Foundation, \$562,500, "Impacts of Spatially Heterogeneous Nitrogen to Grazer Distribution and Activity: Effects of Ecosystem Function in Tallgrass Prairie."

**Joern, Anthony, Herman, Michael A., Johnson, Loretta C., and Sandercock, Brett K.**, US Department of Education, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

**Johnson, Loretta C.**, Sigma Xi Scientific Research Society, \$400, "Sigma Xi Research Award - Miranda Gray."

**Johnson, Loretta C., Herman, Michael A., Joern, Anthony, and Sandercock, Brett K.**, US Department of Education, \$262,530, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

**Jumpponen, Ari M., and Wisely, Samantha**, National Science Foundation, "URM: Undergraduate Research and Mentoring in Ecological Genomics."

**Jumpponen, Ari M., Garrett, Karen A.** (Plant Pathology), and **Kennelly, Megan** (Plant Pathology), The Ceres Trust, \$11,563, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

**Jumpponen, Ari M.,** and **Garrett, Karen A.** (Plant Pathology), The Ceres Trust, "Soil Microbes in Organic Vegetable Production: Capturing the Active Players."

**Jumpponen, Ari M., Garrett, Karen A.** (Plant Pathology), and **Kennelly, Megan** (Plant Pathology), The Ceres Trust, \$16,799, "The Response of Soil Microbial Communities to Organic and Conventional Fertilization."

**Jumpponen, Ari M., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$6,907, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Jumpponen, Ari M.,** and **Rice, Charles W.** (Agronomy), US Department of Energy, \$139,140, "Meta-omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils."

**Marcus, Daniel C.,** US Department of Health and Human Services, "Epithelial Function in Health and Disease."

**Michel, Kristin,** US Department of Health and Human Services, \$60,572, "Structure and Target Protease of SRPN6, Inhibitor of Malaria Parasite Infection."

**Michel, Kristin, Culbertson, Christopher T.** (Chemistry), and **Kanost, Michael R.** (Biochemistry), US Department of Health and Human Services, \$232,902, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

**Morgan, Theodore J.,** National Science Foundation, \$176,000, "LIT: Collaborative Research: Integrating Physiological and Genetic Mechanisms to Understand the Evolution of Cold Tolerance."

**Nippert, Jesse B.,** National Science Foundation, \$10,342, "Global Environmental Change and Local Ecosystems: A Kansas MSP-Start Project for P-20 Students."

**Rintoul, David A.,** and **Spooner, Brian S.,** Kansas State University Foundation, "Cancer Center Core."

**Rintoul, David A.,** and **Govind, Revathi,** US Department of Health and Human Services, \$90,000, "Revathi Govind Start-up Package."

**Rintoul, David A.,** and **Rothenburg, Stefan,** US Department of Health and Human Services, \$90,000, "Stefan Rothenburg Start-up Package."

**Roelofs, Jeroen,** US Department of Health and Human Services, \$193,140, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle."

**Roelofs, Jeroen,** and **Asano, Katsura,** US Department of Health and Human Services, \$9,830, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle (Mentor)."

**Rothenburg, Stefan, and Rintoul, David A.**, US Department of Health and Human Services, "Stefan Rothenburg Start-up Package."

**Sandercock, Brett K.**, National Science Foundation, \$299,976, "Effects of Environmental Change on Arctic-Breeding Shorebirds."

**Sandercock, Brett K., Herman, Michael A., Joern, Anthony, and Johnson, Loretta C.**, US Department of Education, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

**Sandercock, Brett K., and Wisely, Samantha**, US Department of Energy, \$50,000, "Effects of Wind Power Development on Greater Prairie Chickens."

**Sandercock, Brett K.**, US Department of the Interior, \$165,649 (includes \$21,647 from Simon Fraser University), "Decadal Changes in the Demography of Sandpipers near Nome, Alaska."

**Sandercock, Brett K., and McNew, Lance B.**, US Department of the Interior, \$715,176 (includes \$60,000 from KDWP), "Impacts of Alternative Grassland Management Regimes on the Population Ecology of Grassland Birds (Lance McNew - Graduate Student)."

**Shippy, Teresa D., Brown, Susan J., and Denell, Robin E.**, US Department of Health and Human Services, "Genetic Control of Segmentation."

**Skibbe, Adam M., Briggs, John M., Goodin, Douglas G.** (Geography), **Joern, Anthony, and Towne, Earl G.**, National Science Foundation, "Impacts of Spatially Heterogeneous Nitrogen to Grazer Distribution and Activity: Effects of Ecosystem Function in Tallgrass Prairie."

**Spooner, Brian S.**, Kansas State University Foundation, \$34,060, "Biology Research Career Development Core."

**Spooner, Brian S., and Rintoul, David A.**, Kansas State University Foundation, \$160,894, "Cancer Center Core."

**Towne, Earl G., Briggs, John M., Goodin, Douglas G.** (Geography), **Joern, Anthony, and Skibbe, Adam M.**, National Science Foundation, "Impacts of Spatially Heterogeneous Nitrogen to Grazer Distribution and Activity: Effects of Ecosystem Function in Tallgrass Prairie."

**Townsend, Dana**, University of Kansas Endowment Association, \$7,262, "Professional Services Agreement. KSU-SOM Salina."

**Vediyappan, Govindsamy**, US Department of Health and Human Services, \$55,400, "Small Molecule Inhibitors for "Candida Alicans" Yeast-to-hyphal Transition."

**Von Ohlen, Tonia L., and Chapes, Stephen K.**, US Department of Health and Human Services, "Definition of Host Genes Required for Intracellular Pathogen Growth."

**Walti, Ruth, and Gadbury, Gary L.** (Statistics), National Science Foundation, \$179,661, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

**Walti, Ruth**, National Science Foundation, \$4,750, "Metabolomics: A Functional Genomics Tool for Deciphering Functions of Arabidopsis Genes in the Context of Metabolic and Regulatory Networks."

**Wisely, Samantha, and Jumpponen, Ari M.**, National Science Foundation, \$749,919, "URM: Undergraduate Research and Mentoring in Ecological Genomics."

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

## **CHEMISTRY**

**Aakeroy, Christer B.**, National Science Foundation, \$342,000, "Developing Reliable Strategies for Hydrogen and Halogen Bond Driven Supramolecular Synthesis."

**Aakeroy, Christer B.**, Syngenta Crop Protection, LLC, \$45,840, "Research Agreement."

**Aikens, Christine M.**, Sloan Foundation, Alfred P., \$50,000, "Alfred P. Sloan Research Fellowship."

**Aikens, Christine M.**, US Department of Defense, \$150,734, "Structure and Optical Properties of Noble Metal Nanoparticles."

**Bossmann, Stefan, Chikan, Viktor, and Troyer, Deryl L.** (Anatomy and Physiology), Kansas Bioscience Authority, \$25,000, "Intelligent Low Toxicity Materials for Cancer Diagnosis and Treatment."

**Bossmann, Stefan**, Kansas Bioscience Authority, \$80,000, "POCI - NanoScale (Assess Feasibility of Urine and/or Blood Test for Cancer)."

**Bossmann, Stefan, and Chikan, Viktor**, National Science Foundation, "Exploring Controlled Drug Release from Magneto-liposomes by Alternating and Pulsed Magnetic Fields."

**Bossmann, Stefan, Chikan, Viktor, and Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, \$16,750, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

**Bossmann, Stefan, and Culbertson, Christopher T.**, National Science Foundation, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Bossmann, Stefan, Gadbury, Gary L.** (Statistics), and **Troyer, Deryl L.** (Anatomy and Physiology), US Department of Health and Human Services, \$100,280, "Functionalized Bimagnetic Core/Shell Fe/Fe<sub>3</sub>O<sub>4</sub> Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

**Chikan, Viktor, Bossmann, Stefan, and Troyer, Deryl L.** (Anatomy and Physiology), Kansas Bioscience Authority, "Intelligent Low Toxicity Materials for Cancer Diagnosis and Treatment."

**Chikan, Viktor, and Bossmann, Stefan**, National Science Foundation, \$333,810, "Exploring Controlled Drug Release from Magneto-liposomes by Alternating and Pulsed Magnetic Fields."

**Chikan, Viktor, Bossmann, Stefan, and Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

**Culbertson, Christopher T., and Bossmann, Stefan**, National Science Foundation, \$230,000, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Culbertson, Christopher T.**, US Department of Health and Human Services, \$52,466, "Microanalytical Methods for the Detection of Reactive Nitrogen Species."



**Culbertson, Christopher T., Kanost, Michael R.** (Biochemistry), and **Michel, Kristin** (Biology), US Department of Health and Human Services, \$53,453, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

**Erickson, Larry E., Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$92,408, "Expeditionary Capabilities Consortium."

**Higgins, Daniel A.,** and **Hohn, Keith L.** (Chemical Engineering), American Chemical Society, \$50,000, "Single Molecule Spectroscopy for Characterization of Mesoporous Acid Catalysts."

**Higgins, Daniel A.,** and **Ito, Takashi,** US Department of Energy, "SISGR: Molecular- Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores (Supplement)."

**Hua, Duy H.,** and **Chang, Kyeong-Ok** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$32,760, "Counteraction of Alzheimer's Disease."

**Hua, Duy H.,** and **Chang, Kyeong-Ok** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$377,403, "Development of Novel Therapeutic Agents for Norovirus Infection."

**Hua, Duy H., Li, Jun,** and **Nguyen, Thu A.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, "Nanoelectrode Array Based Electronics for Rapid Profiling of Cancerous Enzymes."

**Hua, Duy H.,** US Department of Health and Human Services, \$38,607, "Structural Facets of the Inhibition of Alzheimer's Amyloid-B Oligomers."

**Hua, Duy H.,** and **Nguyen, Thu A.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$18,604, "The Molecular Target of Gap Junction Enhancers."

**Ito, Takashi,** and **Higgins, Daniel A.,** US Department of Energy, \$240,000, "SISGR: Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores (Supplement)."

**Jankowiak, Ryszard J.,** US Department of Energy, \$15,000, "Excitation Energy Transfer in Natural Photosynthetic Complexes and Chlorophyll Trefoils: Hole- Burning and Single Complex/Trefoil Spectroscopic Studies."

**Jankowiak, Ryszard J.,** US Department of Health and Human Services, \$11,075, "Sequence Distribution of Tobacco Carcinogen - DNA Adducts."

**Klabunde, Kenneth J.,** US Department of Defense, \$125,000, "Engineered Reactive Metal Oxyhydroxides for Detection and Decontamination of Toxic Reagents."

**Klabunde, Kenneth J.,** and **Sorensen, Christopher M.** (Physics), US Department of Energy, \$150,000, "Nanoscale Molecules under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"."

**Levy, Christopher J., Corwin, Kristan L.** (Physics), and **Washburn, Brian R.** (Physics), US Army, "Eye-safe Optically-Pumped Gas-filled Fiber Lasers."

**Li, Jun,** National Science Foundation, \$280,293, "Coaxially Coated Vertical Carbon Nanofiber Arrays as 3D Multifunctional Electrodes for Battery-Supercapacitor Hybrids."

**Li, Jun**, National Science Foundation, \$238,581, "Nanotechnology for Renewable Energy."

**Li, Jun**, University of Kansas Center for Research, Inc., \$45,000, "Development of Clinically Diagnostic Biosensors for Blood and Blood-borne Virus."

**Li, Jun, Hua, Duy H., and Nguyen, Thu A.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$372,960, "Nanoelectrode Array Based Electronics for Rapid Profiling of Cancerous Enzymes."

**Smith, Paul E.**, US Department of Health and Human Services, \$216,810, "Accurate Simulations of Peptide Aggregation."

### **DEAN OF ARTS AND SCIENCES**

**Montelone, Beth A.**, Morris Animal Foundation, \$15,000, "One Health Childhood Education - Learning to Love Dogs Safely, Phase Two."

### **ENGLISH**

**Sanders III, Joseph C.**, National Endowment for the Humanities, \$2,334, "150 Years of Tall Tales, Heroes and Outright Lies."

**Sanders III, Joseph C.**, National Endowment for the Humanities, \$21,000, "Critical Engagements with Children's NonFiction (#FW50133)."

### **GEOGRAPHY**

**Caldas, Marcellus M.**, US Department of Education, \$8,640, "Globalization - Socio-Economic, Political, and Environmental Interdependence: A Collaborative, Multi-Disciplinary, Multi-Cultural Education Exchange between the United States and Brazil."

**Daniels, Melinda**, American Rivers, \$11,299, "American Rivers Patapsco River Restoration Project."

**Daniels, Melinda**, The Kingsbury Family Foundation, \$24,951, "Relating Aquatic Biodiversity to Watershed and Stream Corridor Condition in the Kansas River Basin."

**Daniels, Melinda**, US Department of Agriculture, \$24,500, "Impacts of Large-Scale Forest Loss on Stream Channel Form, Process and Sedimentation."

**Daniels, Melinda**, US Department of the Interior, \$5,000, "Wildcat Creek Memorandum of Agreement."

**Daniels, Melinda**, YSI, Inc., \$10,000, "Critical Gateways in the Fluvial Ecosystem Landscape: Hydraulic, Geomorphologic and Thermal Habitat Dynamics at Confluences (Katie Costigan)."

**Goodin, Douglas G., Briggs, John M.** (Biology), **Joern, Anthony** (Biology), **Skibbe, Adam M.** (Biology), and **Towne, Earl G.** (Biology), National Science Foundation, \$187,500, "Impacts of Spatially Heterogeneous Nitrogen to Grazer Distribution and Activity: Effects of Ecosystem Function in Tallgrass Prairie."

**Harrington Jr, John A.**, National Geographic Education Foundation, \$11,850, "2010/2011 Alliance Program Grant- Strategic Planning."

**Harrington Jr, John A.**, National Geographic Education Foundation, \$20,000, "Kansas 2010/2011 Alliance Grant."

**Harrington Jr, John A.**, National Science Foundation, \$45,457, "Project Manager: Kansas NSF EPSCoR."

**Harrington Jr, John A., Hutchinson, Stacy L.** (Biological and Agricultural Engineering), and **Rice, Charles W.** (Agronomy), National Science Foundation, "Understanding Climate Change in the Great Plains: Source, Impact, and Mitigation."

**Hutchinson, J. M. Shawn,** and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), US Army, \$50,000, "Fort Riley Range and Training Land Assessment."

**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."

**Marston, Richard A.**, American Association of Geographers, \$2,000, "Cross-Valley Profiles and Mass Movement Hazards in Deglaciated Canyons, Grand Teton National Park."

**McLauchlan, Kendra K.**, National Science Foundation, \$96,412, "CAREER: Ecosystem Change in Forests and Grasslands from Decades to Millennia: A Retrospective Approach."

## **GEOLOGY**

**Datta, Saugata**, National Science Foundation, \$130,422, "Collaborative Research: Chemical Hydrogeologic Investigations of Tungsten: Field, Laboratory, and Modeling Studies of an Emerging Environmental Contaminant."

**Datta, Saugata,** and **Van Der Merwe, Deon** (Diagnostic Medicine/Pathobiology), US Department of the Interior, \$7,030, "Pariette Wetlands Salinity/Selenium Study."

**Raef, Abdelmoneam**, Kansas Department of Transportation, \$34,900, "Integration of Downhole and Cross-Hole P- and S-Wave Velocity Measurements, Acoustic Televiewer Downhole Imaging, and Surface Seismic Waves for Elastic Moduli Evaluation and Fracture Anisotropy Analysis."

**Totten, Iris M., Bolton, Timothy A.** (Physics), **Ferguson, Carolyn J.** (Biology), **Kambhampati, Srinivas** (Entomology), and **Rebello, Nobel S.** (Physics), National Science Foundation, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

## **HISTORY**

**Lynn-Sherow, Bonnie,** and **Zschoche, Sue**, Kansas State University Foundation, "Chapman Center for Personnel."

**Morgan, Morgan J., Diaz De Sabates, Gabriela B.** (Womens Studies), **Janette, Michele** (Womens Studies), and **Zschoche, Sue**, National Endowment for the Humanities, "Annie, Get Your Camera!: Kansas History Roadshow."

**Zschoche, Sue,** and **Lynn-Sherow, Bonnie**, Kansas State University Foundation, \$25,000, "Chapman Center for Personnel."

**Zschoche, Sue, Diaz De Sabates, Gabriela B.** (Womens Studies), **Janette, Michele** (Womens Studies), and **Morgan, Morgan J.**, National Endowment for the Humanities, "Annie, Get Your Camera!: Kansas History Roadshow."

## **KINESIOLOGY**

**Dzewaltowski, David A.**, United Methodist Health Ministry Fund, \$92,042, "Dissemination of the HOP'N Home Program through Preschool Settings to Prevent Obesity."

**Kaczynski, Andrew T.**, City of Kansas City, MO, \$4,000, "Kansas City Parks and Physical Activity Research Study."

**Musch, Timothy I.**, and **Poole, David C.** (Anatomy and Physiology), US Department of Health and Human Services, \$102,353, "Mechanisms of Muscle Microcirculatory Dysfunction in Heart Failure."

## **MATHEMATICS**

**Bennett, Andrew G., Rebello, Nobel S.** (Physics), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$86,853, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

**Bennett, Andrew G.**, and **Allen, David S.** (Dean of Education), US Department of Education, "Project RENEW: Leadership for Renewal and Excellence in Mathematics."

**Hakobyan, Hrant**, National Science Foundation, \$36,478, "Quasiconformal Geometry of Fractal Spaces."

**Naibo, Virginia M.**, National Science Foundation, \$117,526, "Bilinear Techniques in Time- Frequency and Real Analysis."

**Rojkovskaia, Natalia**, Mathematical Sciences Research Institute, \$2,000, "Math Circle Seminar at Kansas State University."

**Soibelman, Yan S.**, National Science Foundation, \$129,946, "Cohomological Hall Algebra and Motivic Donaldson-Thomas Invariants."

**Spencer, Craig**, National Security Agency, \$14,914, "Circle Method Approaches to Arithmetic Geometry, Diophantine Inequalities and Additive Combinatorics."

## **MUSIC**

**Yu Oppenheim, Julie**, Master Teacher, Inc., \$17,850, "Summer Choral Institute."

## **PHYSICS**

**Ben-Itzhak, Itzhak**, and **Esry, Brett D.**, US - Israel Binational Science Foundation, \$16,400, "Molecular Ion Dissociation in Swift Strong Laser Field."

**Ben-Itzhak, Itzhak**, US Department of Energy, \$5,000,000, "Structure and Dynamics of Atoms. Ions, Molecules, and Surfaces."

**Bolton, Timothy A.**, and **Ivanov, Andrew G.**, Fermi National Accelerator Laboratory, \$35,620, "Fermilab Salary Support for Dr. Makouski, Dr. Romchek, and Dr. Ivanov."

**Bolton, Timothy A.**, and **Maravin, Yurii**, Fermi National Accelerator Laboratory, \$13,000, "Pixels M&O Subsystem."

**Bolton, Timothy A.**, **Ferguson, Carolyn J.** (Biology), **Kambhampati, Srinivas** (Entomology), **Rebello, Nobel S.**, and **Totten, Iris M.** (Geology), National Science Foundation, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

**Bolton, Timothy A.**, and **Ivanov, Andrew G.**, National Science Foundation, \$126,560 (includes \$20,000 from Paul Scherrer Institute), "MRI-R2: Development of a Pixel Detector for the Upgraded CMS Experiment."

**Bolton, Timothy A.**, National Science Foundation, \$83,000, "PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische 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, \$15,000, "Quarknet."

**Bolton, Timothy A.**, **Horton-Smith, Glenn A.**, **Ivanov, Andrew G.**, **Maravin, Yurii**, **Ratra, Bharat**, and **Stanton, Noel R.**, US Department of Energy, \$790,140, "Heavy Quark and Neutrino Physics."

**Chang, Zenghu**, and **Lei, Shuting** (Industrial and Manufacturing Systems Engineering), National Science Foundation, \$3,600, "Collaborative Research: Mathematical Modeling and Experimental Study of Femtosecond Laser Machining of High Aspect Ratio Microstructures."

**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.**, and **Weaver, Oliver L.**, National Science Foundation, \$116,000, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

**Corwin, Kristan L.**, **Levy, Christopher J.** (Chemistry), and **Washburn, Brian R.**, US Army, \$135,000, "Eye-safe Optically-Pumped Gas-filled Fiber Lasers."

**Corwin, Kristan L.**, and **Washburn, Brian R.**, US Department of Defense, \$400,000, "Gas Filled Hollow Core Fiber Lasers Based on Population Inversion."

**Esry, Brett D.**, and **Ben-Itzhak, Itzhak**, US - Israel Binational Science Foundation, "Molecular Ion Dissociation in Swift Strong Laser Field."

**Esry, Brett D.**, US Department of Defense, \$117,792, "Ultracold Polar Molecules: New Phases of Matter for Quantum Information and Quantum Control."

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

**Ivanov, Andrew G.**, and **Bolton, Timothy A.**, National Science Foundation, "MRI-R2: Development of a Pixel Detector for the Upgraded CMS Experiment."

**Ivanov, Andrew G.**, National Science Foundation, \$131,819, "Towards New Discoveries at the Energy Frontier."

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

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$12,378, "Kansas Defense 2010."

**Kling, Matthias**, National Science Foundation, \$94,648, "Attosecond Observation and Control of Electron Dynamics in Nanoparticles."

**Lin, Chii-Dong**, US Department of Energy, \$290,000, "Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons."

**Maravin, Yurii, and Bolton, Timothy A.**, Fermi National Accelerator Laboratory, "Pixels M&O Subsystem."

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

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

**Rebello, Nobel S.**, National Science Foundation, \$8,103, "CoMPASS: Integrating Digital Text in Design-Based Science Classes."

**Rebello, Nobel S., Bolton, Timothy A., Ferguson, Carolyn J.** (Biology), **Kambhampati, Srinivas** (Entomology), and **Totten, Iris M.** (Geology), National Science Foundation, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

**Rebello, Nobel S., Bennett, Andrew G.** (Mathematics), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$191,076, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

**Rebello, Nobel S.**, US Department of Education, \$80,852, "Scaffolding Students' Use of Multiple Representations for Science Learning."

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

**Sorensen, Christopher M., Beck, B. Terry** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Energy, \$68,738, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

**Sorensen, Christopher M., and Klabunde, Kenneth J.** (Chemistry), US Department of Energy, \$150,000, "Nanoscale Molecules under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"."

**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., Ivanov, Andrew G., Maravin, Yurii, and Ratra, Bharat**, US Department of Energy, "Heavy Quark and Neutrino Physics."

**Szozzkiewicz, Robert**, National Science Foundation, \$71,876 (includes \$11,166 from Dr. Guikema support), "Nanomechanical Studies of the Secondary Structure folding in Polypeptides using Single Molecule AFM and Interferometry."

**Thumm, Uwe**, National Science Foundation, \$38,924, "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 Levy, Christopher J.** (Chemistry), US Army, "Eye-safe Optically-Pumped Gas-filled Fiber Lasers."

**Washburn, Brian R., and Corwin, Kristan L.**, US Department of Defense, "Gas Filled Hollow Core Fiber Lasers Based on Population Inversion."

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

**Zollman, Dean A.**, National Science Foundation, \$77,499, "Undergraduate Science Course Reform Serving Pre-Service Teachers: Evaluation of a Faculty Professional Development Model."

## **POLITICAL SCIENCE**

**Aistrup, Joseph, Bergtold, Jason S.** (Agricultural Economics), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), and **Peterson, Jeffrey M.** (Agricultural Economics), National Science Foundation, "Farmers' Decisions to Grow Crops for Fuel."

## **PSYCHOLOGY**

**Frieman, Jerome, and Monaco, Gregory E.**, Great Plains Network Consortium, \$186,900, "Funding for Director of Research - Great Plains Network."

**Frieman, Jerome, and Monaco, Gregory E.**, Great Plains Network Consortium, \$196,842, "Funding for Executive Director - Great Plains Network."

**Kirkpatrick, Kimberly**, US Department of Health and Human Services, \$256,410, "Timing, Reward Processing and Choice."

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

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

**Monaco, Gregory E., Gruenbacher, Don M.** (Electrical and Computer Engineering), and **Scoglio, Caterina M.** (Electrical and Computer Engineering), National Science Foundation, \$8,762, "GpENI: Great Plains Environment for Network Innovation."

## **SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS**

**Furnas, Kelly R., and Wolgast, Kimetris**, Student Publications, Inc., "Memorandum of Agreement."

**Wolgast, Kimetris, and Furnas, Kelly R.**, Student Publications, Inc., \$89,924, "Memorandum of Agreement."

## **SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK**

**Britton, Dana M.**, Sociologists for Women in Society, \$79,733, "Gender and Society Editorship."

**Kulcsar, Laszlo, Aistrup, Joseph** (Political Science), **Bergtold, Jason S.** (Agricultural Economics), and **Peterson, Jeffrey M.** (Agricultural Economics), National Science Foundation, \$107,661, "Farmers' Decisions to Grow Crops for Fuel."

**Logan, Brad R.**, US Department of the Interior, \$2,975, "National Register of Historic Places Evaluation of Selected Sites at Lovewell Reservoir, Jewell County, Kansas."

**Roper, Donna C.**, US Department of the Interior, \$136,082, "Testing Archaeological Sites 25FT56/130, 25FT353, 25FT354, & 25FT355, Hugh Butler Lake, Nebraska; Excavating Archaeological Sites 25FT56 & 25FT354."

**Selfa, Theresa L., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Pagadala, P.V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$6,907, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

## **STATISTICS**

**Bello, Nora M.**, US Department of Agriculture, \$18,268, "Statistical Methods and Bioinformatics Tools for Multiple Trait Whole Genome Precision Selection for Heterogeneous Environments."

**Gadbury, Gary L., and Welti, Ruth** (Biology), National Science Foundation, \$9,456, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

**Gadbury, Gary L., Bossmann, Stefan** (Chemistry), and **Troyer, Deryl L.** (Anatomy and Physiology), US Department of Health and Human Services, \$17,440, "Functionalized Bimagnetic Core/Shell Fe/Fe<sub>3</sub>O<sub>4</sub> Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

## **WOMENS STUDIES**

**Diaz De Sabates, Gabriela B., Janette, Michele, Morgan, Morgan J.** (History), and **Zschoche, Sue** (History), National Endowment for the Humanities, "Annie, Get Your Camera!: Kansas History Roadshow."

**Janette, Michele, Diaz De Sabates, Gabriela B., Morgan, Morgan J.** (History), and **Zschoche, Sue** (History), National Endowment for the Humanities, \$10,050, "Annie, Get Your Camera!: Kansas History Roadshow."



## COLLEGE OF BUSINESS ADMINISTRATION

### MANAGEMENT

**Ehie, Ike C.**, and **Gordon, Myra E.** (Office of Diversity and Dual Career Development), British American Tobacco Plc., \$34,022, "Advancing Economic Development through Strengthening the MBA Programs in Nigeria."

**Kovar, Stacy E.**, Multi-Sponsor, \$3,000, "MBA Practicum."

**Prince, J. Bruce, Andrus, David M.** (Marketing), and **Gwinner, Kevin P.** (Marketing), National Commission on Veterinary Economic Issues, \$1,750, "Center for Veterinary Business Management for Web-Hosting, Data Analysis and Veterinary Practice Management Research."

### MARKETING

**Andrus, David M., Gwinner, Kevin P.**, and **Prince, J. Bruce** (Management), National Commission on Veterinary Economic Issues, \$3,250, "Center for Veterinary Business Management for Web-Hosting, Data Analysis and Veterinary Practice Management Research."

**Gwinner, Kevin P., Andrus, David M.**, and **Prince, J. Bruce** (Management), National Commission on Veterinary Economic Issues, "Center for Veterinary Business Management for Web-Hosting, Data Analysis and Veterinary Practice Management Research."

## COLLEGE OF EDUCATION

### CURRICULUM AND INSTRUCTION

**Spears, Jacqueline D.**, National Science Foundation, "Math Matters: Transition from High School to Postsecondary Education."

**Vontz, Thomas**, US Department of Education, "Kansas We the People Summer Institute - 2011."

### DEAN OF EDUCATION

**Allen, David S.**, and **Bennett, Andrew G.** (Mathematics), US Department of Education, \$279,129, "Project RENEW: Leadership for Renewal and Excellence in Mathematics."

**Dunn, Cindi, Middendorf, B. Jan**, and **Thurston, Linda P.**, National Science Foundation, \$37,906, "The Queens Borough Bridge: An NSF-Funded Consortium between a Two- Year College, Four-Year College, and National Laboratory."

**Goodson, F. Todd**, US Department of Education, \$40,605 (includes \$5,605 from participant support), "Flint Hills Writing Project."

**Havlicek, Barbara J.**, Kansas Foundation for Agriculture in the Classroom, \$132,882, "Kansas Foundation for Agriculture in the Classroom."

**Havlicek, Barbara J.**, Multi-Sponsor, \$3,500, "Council for Public School Improvement."

**Havlicek, Barbara J.**, Multi-Sponsor, \$69,581, "Educational Computer Assistance."

**Havlicek, Barbara J.**, Schools for Quality Education, Inc., \$7,000, "Schools for Quality Education."

**Herrera, Socorro G.**, US Department of Education, \$474,990, "Project Destiny."

**Herrera, Socorro G.**, US Department of Education, \$282,703, "Project MERIT."

**Herrera, Socorro G.**, US Department of Education, \$266,749, "Project PEER."

**Herrera, Socorro G.**, US Department of Education, \$286,854, "Project Pulse."

**Middendorf, B. Jan**, Bill and Melinda Gates Foundation, \$4,400, "SLK-U.S. Libraries Opportunity Online Broadband Grant Program."

**Middendorf, B. Jan**, DeBruyn Institute for Teaching Excellence, \$6,912, "Master Teacher III."

**Middendorf, B. Jan**, Kansas Board of Regents, \$120,000, "Kansas Board of Regents on Behalf of the Data Research and Planning Unit for Evaluation Services."

**Middendorf, B. Jan**, National Science Foundation, \$25,452, "ADVANCE LEADER Consortium."

**Middendorf, B. Jan**, National Science Foundation, \$95,016, "Evaluation Services, Track 1 Experimental Program to Stimulate Competitive Research (EPSCoR)."

**Middendorf, B. Jan**, National Science Foundation, \$17,703, "Evaluation Services, Track 2 EPSCoR, Research and Education Cyberinfrastructure Investments to Develop the Coastal Hazards Collaboratory in the Northern Gulf Coast."

**Middendorf, B. Jan**, National Science Foundation, \$9,979, "Louisiana's Cyber Connectivity via LONI: Xavier Contract."

**Middendorf, B. Jan**, National Science Foundation, \$10,000, "Supporting Collaboration in Engineering Education."

**Middendorf, B. Jan**, US Department of Defense, \$225,000, "Leading Reading."

**Middendorf, B. Jan**, US Department of Education, \$110,000, "Mueller Aerospace & Engineering Discovery Magnet."

**Rankin, Charles I.**, US Department of Education, \$704,150, "Midwest Equity Assistance Center."

**Shuman, Cindy**, US Department of Education, \$22,000, "Evaluation of !LISTO!."

**Spears, Jacqueline D., Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), **Wallentine, Virgil E.** (Computing and Information Sciences), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$112,809, "Infusing System Development and Sensor Technology in Education."

**Spears, Jacqueline D.**, National Science Foundation, \$118,580, "Math Matters: Transition from High School to Postsecondary Education."

**Teagarden, James M.**, US Department of Education, \$3,000, "IHE Family Engagement Curriculum Enhancement Project."

**Thurston, Linda P.**, National Science Foundation, \$162,296, "National Science Foundation - Intergovernmental Personnel Act."

**Thurston, Linda P., Dunn, Cindi, and Middendorf, B. Jan**, National Science Foundation, "The Queens Borough Bridge: An NSF-Funded Consortium between a Two-Year College, Four-Year College, and National Laboratory."

**Vontz, Thomas**, US Department of Education, \$13,500, "Civitas International Exchange Program."

**Vontz, Thomas**, US Department of Education, \$41,760, "Kansas We the People Summer Institute - 2011."

### **EDUCATIONAL LEADERSHIP**

**Gould, Carol A.**, Corporation for National and Community Service, \$65,885, "Kansas Campus Compact."

### **ELEMENTARY EDUCATION**

**Vontz, Thomas**, US Department of Education, \$32,370, "Kansas - We the People: The Citizen and the Constitution."

### **SECONDARY EDUCATION**

**Goodson, F. Todd**, US Department of Education, "Flint Hills Writing Project."

## COLLEGE OF ENGINEERING

### **ADVANCED MANUFACTURING INSTITUTE**

**Case, Scott A., Jones, Taylor S., Kramer, Bradley A., and Tucker, Jeffrey W.**, Multi-Sponsor, "Advanced Manufacturing Institute - Manufacturing Learning Center."

**Jones, Taylor S.**, MCAS Miramar, \$19,262, "Seat Belt Convincer S11-0025."

**Jones, Taylor S., Case, Scott A., Kramer, Bradley A., and Tucker, Jeffrey W.**, Multi-Sponsor, "Advanced Manufacturing Institute - Manufacturing Learning Center."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Great Plains Development Authority, \$120,000, "Great Plains Industrial Park Business Development Support P11-0040."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Great Plains Development, Inc., \$10,000, "Southwest Kansas Regional Asset Mapping P11-0060."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Kansas Department of Commerce, \$100,000, "Match Funding for the Kansas Opportunity Innovation Network (KOIN) Program."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$482,283, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$30,812, "Match for EDA "Kansas Opportunity Innovation Network" KOIN."

**Kramer, Bradley A., and Becker, Gina Y.**, Kansas Technology Enterprise Corporation, \$65,604, "PFI: Kansas Bioprocessing Science and Engineering Center."

**Kramer, Bradley A., Case, Scott A., Jones, Taylor S., and Tucker, Jeffrey W.**, Multi-Sponsor, \$581,235, "Advanced Manufacturing Institute - Manufacturing Learning Center."

**Kramer, Bradley A., Madl, Ronald L.** (Grain Science and Industry), **Richardson, Daniel C.** (K-State Olathe Innovation Campus), **Trewyn, R. W.** (Office of the Provost), and **Tucker, Jeffrey W.**, National Science Foundation, \$559,687 (includes \$79,714 from KTEC), "Kansas Bioprocessing Science and Engineering Center."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, North Central Regional Planning Commission, \$60,000, "Regional Business Profiting & Innovation Networking Project P11-0052."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, US Department of Commerce, "University Center Economic Development Program."

**Tucker, Jeffrey W.**, AAA Allied Group Inc, \$6,000, "50% External Funding Payment on Seat Belt Convincer Build S10-0043 for the Kansas Department of Transportation (GEM1001791 - KS0488)."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Great Plains Development Authority, "Great Plains Industrial Park Business Development Support P11-0040."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Great Plains Development, Inc., "Southwest Kansas Regional Asset Mapping P11-0060."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Kansas Department of Commerce, "Match Funding for the Kansas Opportunity Innovation Network (KOIN) Program."

**Tucker, Jeffrey W.**, Kansas Department of Transportation, \$6,000, "KHP Safety Belt Convincers S10-0043."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Kansas Technology Enterprise Corporation, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Kansas Technology Enterprise Corporation, "Match for EDA "Kansas Opportunity Innovation Network" KOIN."

**Tucker, Jeffrey W., Case, Scott A., Jones, Taylor S., and Kramer, Bradley A.**, Multi-Sponsor, "Advanced Manufacturing Institute - Manufacturing Learning Center."

**Tucker, Jeffrey W., Kramer, Bradley A., Madl, Ronald L.** (Grain Science and Industry), **Richardson, Daniel C.** (K-State Olathe Innovation Campus), and **Trewyn, R. W.** (Office of the Provost), National Science Foundation, "Kansas Bioprocessing Science and Engineering Center."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, North Central Regional Planning Commission, "Regional Business Profiting & Innovation Networking Project P11-0052."

**Tucker, Jeffrey W.**, North Central Regional Planning Commission, \$10,000, "Regional Industry Cluster Analysis and Innovation Networking PO8-0098."

**Tucker, Jeffrey W.**, State of New York, \$82,880, "Request for Quotation Soliciting Bids for a Five Year Term Contract for Seat Belt Convincers."

**Tucker, Jeffrey W.**, US Department of Agriculture, \$17,720, "Amana Farms Pilot Testing P11-0010."

**Tucker, Jeffrey W.**, US Department of Agriculture, \$5,280, "Drying of Solids from Phosphorus Reduction System for Pathogen Reduction P10-0073."

**Tucker, Jeffrey W.**, US Department of Agriculture, \$45,000, "Experimental and Numerical Evaluation of Water Feed Re-Configuration for Mixing Improvements in the Phosphorous Reduction Systems (PHRED): Phase III (P11-0066)."

**Tucker, Jeffrey W.**, US Department of Agriculture, \$1,800, "Experimental Evaluation of Water Feed Re-configuration for Mixing Improvement in the Phosphorous Reduction System (PHRED): Phase II P11-0063."

**Tucker, Jeffrey W.**, and **Kramer, Bradley A.**, US Department of Commerce, \$370,144 (includes \$130,144 from External Match), "University Center Economic Development Program."

**Tucker, Jeffrey W.**, US Department of Defense, \$19,839, "Seat Belt Convincer S11-0027."

**Tucker, Jeffrey W.**, US Department of Labor, \$32,100, "Wind Farm Construction & Logistics Supply Chain Workshop P11-0061."

**Tucker, Jeffrey W.**, US Department of Labor, \$50,000, "WIRED Training."

**Tucker, Jeffrey W.**, US Department of Transportation, \$5,200, "KHP Safety Belt Roll-Over Repair."

### **BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**Barnes, Philip L.**, and **DeRouchey, Joel M.** (Animal Sciences and Industry), CAFO Best Waste Solutions LLC, "Effects of CAFO's Best Technology on Swine Manure Nutrient Concentration."

**Barnes, Philip L.**, **Devlin, Daniel L.** (Agronomy), and **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, \$44,703 (includes \$10,613 from cooperator support), "Little Arkansas WRAPS Implementation."

**Douglas-Mankin, Kyle R.**, and **Leatherman, John C.** (Agricultural Economics), US Environmental Protection Agency, \$17,792, "KS WRAPS Cottonwood Development, Assessment and Planning / Neosho Headwaters Assessment and Planning."

**Ebert, Kerri L.**, and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, "2011 Kansas SARE Professional Development Program."

**Harner III, Joseph P.**, **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Maghirang, Ronaldo G.**, US Department of Agriculture, "Air Quality: Reducing Emissions from Cattle Feedlots and Dairies in TX and KS."

**Hutchinson, Stacy L.**, **Harrington Jr, John A.** (Geography), and **Rice, Charles W.** (Agronomy), National Science Foundation, "Understanding Climate Change in the Great Plains: Source, Impact, and Mitigation."

**Hutchinson, Stacy L.**, US Army, \$34,000, "Assessing the Relationship between Remotely Sensed Products Derived from MODIS Satellite Imagery and Landscape Ecological Measurements."

**Hutchinson, Stacy L.**, and **Hutchinson, J. M. Shawn** (Geography), US Army, \$50,000, "Fort Riley Range and Training Land Assessment."

**Hutchinson, Stacy L.**, and **Hutchinson, J. M. Shawn** (Geography), US Department of Defense, \$145,850, "Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability."

**Hutchinson, Stacy L.**, **Davis, Lawrence C.** (Biochemistry), **Erickson, Larry E.** (Center for Hazardous Substance Research), and **Hettiarachchi, Ganga M.** (Agronomy), Westar Energy, \$69,510, "Westar Wetlands Project."

**Maghirang, Ronaldo G.**, **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Harner III, Joseph P.**, US Department of Agriculture, \$136,270, "Air Quality: Reducing Emissions from Cattle Feedlots and Dairies in TX and KS."

**Maghirang, Ronaldo G.**, US Department of Agriculture, \$49,952, "Mechanistic Modeling of Wind Barriers and Grain Commingling Using CFD and DEM."

**Maghirang, Ronaldo G.**, US Department of Agriculture, \$28,311, "Modeling Insect Movement During Grain Handling in Bucket Elevators."

**Maghirang, Ronaldo G.**, and **Steichen, James M.**, US Department of Defense, \$28,989, "Measuring and Modeling of Fugitive Dust emission from Off-Road Department of Defense Activities."

**Powell, G. Morgan**, US Environmental Protection Agency, \$2,800, "Kansas Environmental Leadership Program (KELP) 05-06 Class."

**Price, Randy R.**, American Sugar Cane League, \$15,500, "Development of New Technologies to Estimate Sugarcane Yields, Improve Mechanical Planters, and Provide Electronic Depth Control."

**Rogers, Danny H.**, **Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$4,235, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Slocombe, John W.**, US Department of Agriculture, \$180,000, "Kansas AgrAbility Project."

**Steichen, James M.**, and **Zhang, Naiqian**, US Department of Defense, "Continuous, Wireless Monitoring of Sediment Flux at Multiple Low-Water Stream Crossings on Tank Trails."

**Steichen, James M.**, and **Maghirang, Ronaldo G.**, US Department of Defense, "Measuring and Modeling of Fugitive Dust emission from Off-Road Department of Defense Activities."

**Wang, Donghai, Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), Kansas Grain Sorghum Commission, \$35,000, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

**Wang, Donghai**, and **Drouillard, James S.** (Animal Sciences and Industry), Kansas Grain Sorghum Commission, \$7,000, "Effect of Decortication on Feed Quality of Sorghum DDGS."

**Wang, Donghai**, and **Hohn, Keith L.** (Chemical Engineering), National Science Foundation, \$161,500, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."

**Wang, Donghai**, and **Pei, Zhijian** (Industrial and Manufacturing Systems Engineering), National Science Foundation, \$5,500, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

**Wang, Donghai**, and **Drouillard, James S.** (Animal Sciences and Industry), The United Sorghum Checkoff Program Board, \$10,000, "Effect of Heating on the Quality of Sorghum DDGS."

**Wang, Donghai**, US Department of Agriculture, \$53,000, "Bio-industrial Uses of Sorghum Proteins."

**Wang, Donghai**, US Department of Agriculture, \$85,000, "Developing Technology and Procedures to Measure Characteristics of Grain and Plants."

**Wang, Donghai**, **Madl, Ronald L.** (Grain Science and Industry), and **Staggenborg, Scott A.** (Agronomy), US Department of Transportation, \$21,000, "Bio-Oil From Pyrolysis of Sorghum Biomass."

**Wang, Donghai**, **Langemeier, Michael R.** (Agricultural Economics), **Nelson, Richard G.** (Kansas Industrial Extension Services), and **Staggenborg, Scott A.** (Agronomy), US Department of Transportation, \$6,095, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

**Yuan, Wenqiao**, National Science Foundation, \$22,000, "CAREER: Multi-Scale Structured Solid Carriers Enabling Algae Biofuel Manufacturing in the Ocean."

**Yuan, Wenqiao**, and **Riding, Kyle** (Civil Engineering), National Science Foundation, \$1,800, "Collaborative Research: New Natural Supplementary Cementitious Materials for Concrete."

**Zhang, Naiqian**, **Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), **Spears, Jacqueline D.** (Dean of Education), and **Wallentine, Virgil E.** (Computing and Information Sciences), National Science Foundation, \$112,809, "Infusing System Development and Sensor Technology in Education."

**Zhang, Naiqian**, US Department of Agriculture, \$16,621, "A Laser System for High- Resolution Soil Surface and Standing Residue Analysis."

**Zhang, Naiqian**, and **Steichen, James M.**, US Department of Defense, \$77,069, "Continuous, Wireless Monitoring of Sediment Flux at Multiple Low-Water Stream Crossings on Tank Trails."

#### **CENTER FOR HAZARDOUS SUBSTANCE RESEARCH**

**Erickson, Larry E.**, Tetra Tech NUS, Inc, \$2,722, "Animal Mortality Bioenergy Project."

**Erickson, Larry E.**, **Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.**, US Department of Defense, \$212,540, "Expeditionary Capabilities Consortium."

**Erickson, Larry E., Davis, Lawrence C.** (Biochemistry), **Hettiarachchi, Ganga M.** (Agronomy), and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), Westar Energy, \$17,378, "Westar Wetlands Project."

**Leven, Blase A., Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Erickson, Larry E.**, and **Guikema, James A.** (Vice President for Research), US Department of Defense, "Expeditionary Capabilities Consortium."

**Leven, Blase A.**, US Environmental Protection Agency, \$9,386, "R5 Tremont Phase 2."

**Leven, Blase A., Hettiarachchi, Ganga M.** (Agronomy), and **Martin, Sabine E.**, US Environmental Protection Agency, "Sustainable Local Gardening Redevelopment at Brownfields Sites."

**Leven, Blase A.**, US Environmental Protection Agency, \$10,720, "Tremont Barrel Fill."

**Martin, Sabine E., Hettiarachchi, Ganga M.** (Agronomy), and **Leven, Blase A.**, US Environmental Protection Agency, \$37,500, "Sustainable Local Gardening Redevelopment at Brownfields Sites."

### **CHEMICAL ENGINEERING**

**Anthony, Jennifer L.**, National Science Foundation, \$94,887, "Synthesis of Nanoporous Materials in Ionic Liquids: A Fundamental Study of the Solvent's Role."

**Berry, Vikas**, MEMC Electronic Materials Inc., \$237,916, "Growth and Transfer of Large-Area Graphene on Silicon and Silica Substrates and its Surface Engineering."

**Berry, Vikas**, National Science Foundation, \$400,000, "CAREER: Detailed Characterization of Graphene Quantum Dots of Controlled Size, Shape and Chemistry."

**Berry, Vikas**, National Science Foundation, \$301,074, "Detailed Surface Engineering and Electrical Characterization of pi-Functionalized Graphene Sheets and Ribbons with Preserved Lattice and Electronic Characteristics."

**Berry, Vikas**, US Department of Defense, \$50,000, "Tapered Graphene Nanoribbons of Controlled Tapering Angle: Structurally Tuning the Charge-carrier Properties."

**Edgar, James H.**, and **Geuther, Jeffrey A.** (Mechanical and Nuclear Engineering), National Science Foundation, \$145,668, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."

**Edgar, James H., Pfromm, Peter H.**, and **Rezac, Mary E.**, National Science Foundation, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."

**Edgar, James H.**, US Department of Energy, \$528,904, "Materials Development for Boron Phosphide Based Neutron Detectors."

**Erickson, Larry E.**, and **Davis, Lawrence C.** (Biochemistry), Mango Remediation, \$25,000, "Remediation of Chlorinated Solvents in Soil and Groundwater."

**Hohn, Keith L.**, and **Higgins, Daniel A.** (Chemistry), American Chemical Society, \$50,000, "Single Molecule Spectroscopy for Characterization of Mesoporous Acid Catalysts."



**Hohn, Keith L., and Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, \$161,500, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."

**Hohn, Keith L., and Vadlani, Praveen V.** (Grain Science and Industry), US Department of Defense, "Novel Process to Biomass Conversion to Butylenes."

**Jones, Byron W.,** Kansas Technology Enterprise Corporation, \$11,585, "Kansas Defense 2010."

**Nelson, Richard G., Langemeier, Michael R.** (Agricultural Economics), and **Staggenborg, Scott A.** (Agronomy), US Department of Energy, \$60,000, "Design and Demonstration of an Advanced Agricultural Feedstock Supply System for Lignocellulosic Bioenergy Production."

**Nelson, Richard G., Bergtold, Jason S.** (Agricultural Economics), **Langemeier, Michael R.** (Agricultural Economics), **Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Transportation, \$12,117 (includes \$150 from Oklahoma State University), "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Pfromm, Peter H., Edgar, James H., and Rezac, Mary E.,** National Science Foundation, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."

**Pfromm, Peter H., and Rezac, Mary E.,** US Department of Agriculture, "Membrane Reactor Technology for the Efficient Conversion of Biomass to Industrial Chemicals."

**Rezac, Mary E.,** Dow Corning Corporation, \$25,000, "Determining the Preferred Alternative Energy Utilization Strategy for a Dow Corning Manufacturing Facility and Completion of an Initial Process Design of the Preferred System."

**Rezac, Mary E.,** National Science Foundation, \$297,351, "REU Site: Summer Academy in Sustainable BioEnergy."

**Rezac, Mary E., Edgar, James H., and Pfromm, Peter H.,** National Science Foundation, \$1,598,997, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."

**Rezac, Mary E., and Pfromm, Peter H.,** US Department of Agriculture, \$188,369, "Membrane Reactor Technology for the Efficient Conversion of Biomass to Industrial Chemicals."

**Rezac, Mary E., and Madl, Ronald L.** (Grain Science and Industry), US Department of Energy, \$500,000, "Kansas State University Center for Sustainable Energy."

**Schlup, John R.,** US Department of Transportation, \$26,653, "Online Courses on Biorenewable Resources and on Engineering Sustainability."

## **CIVIL ENGINEERING**

**Bhandari, Alok, Najjar, Yacoub M., and Stokes, Robert W.,** US Department of Transportation, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

**Dissanayake, Sunanda, and Hossain, Mustaque A.,** US Department of Transportation, "Implementation of the 2002 AASHTO Design Guide for Pavement Structures."

**Dissanayake, Sunanda, Hossain, Mustaque A., Peterman, Robert J., and Stokes, Robert W.**, US Department of Transportation, "Region VII University Transportation Center (UTC)."

**Esmaily, Asadollah, and Peterman, Robert J.**, Kansas Department of Transportation, "Evaluating the Time-Dependent and Bond Characteristics of a Lightweight Concrete Mix for Kansas Prestressed Concrete Bridges."

**Esmaily, Asadollah**, Kansas Department of Transportation, \$40,000, "KSU\_RC Upgrade for Performance and Capacity Assessment of RC Bridge Piers Considering the New K-DOT LRFD Provisions and Plastic-Hinge Length."

**Esmaily, Asadollah, and Rasheed, Hayder A.**, Kansas Department of Transportation, "LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns: Phase 2."

**Esmaily, Asadollah, and Riding, Kyle**, Kansas Department of Transportation, "Measurement of the Pore Size Distribution of Limestone Aggregates in Concrete Pavement Cores."

**Hossain, Mustaque A.**, Kansas Department of Transportation, \$20,000, "Administration of KDOT/KTRAN Program."

**Hossain, Mustaque A.**, Kansas Department of Transportation, \$23,400, "Database Development and Analysis of Hamburg Rut Tester Data."

**Hossain, Mustaque A., and Dissanayake, Sunanda**, US Department of Transportation, \$199,999, "Implementation of the 2002 AASHTO Design Guide for Pavement Structures."

**Hossain, Mustaque A., Dissanayake, Sunanda, Peterman, Robert J., and Stokes, Robert W.**, US Department of Transportation, \$234,122, "Region VII University Transportation Center (UTC)."

**Landman, E. Dean, and Russell, Eugene R.**, Kansas Department of Transportation, "Optimizing the Analysis of Routing Oversize/Overweight Loads to Provide Efficient Freight Corridors."

**Najjar, Yacoub M., Bhandari, Alok, and Stokes, Robert W.**, US Department of Transportation, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

**Natarajan, Balasubramaniam, Hatcliff, John M.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), **Wallentine, Virgil E.** (Computing and Information Sciences), and **Warren, Steven**, Cerner Corporation, \$46,996, "Falls Predictor Device."

**Peterman, Robert J.**, Kansas Department of Administration, \$19,343, "Long Term Monitoring of a Pretensioned Concrete Bridge near Winfield, KS."

**Peterman, Robert J., and Esmaily, Asadollah**, Kansas Department of Transportation, \$4,686, "Evaluating the Time-Dependent and Bond Characteristics of a Lightweight Concrete Mix for Kansas Prestressed Concrete Bridges."

**Peterman, Robert J., Beck, B. Terry** (Industrial and Manufacturing Systems Engineering), and **Wu, Chih-Hang** (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$473,611 (includes \$68,939 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

**Peterman, Robert J., Dissanayake, Sunanda, Hossain, Mustaque A., and Stokes, Robert W.**, US Department of Transportation, "Region VII University Transportation Center (UTC)."

**Rasheed, Hayder A.**, and **Esmaily, Asadollah**, Kansas Department of Transportation, \$59,900, "LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns: Phase 2."

**Riding, Kyle, Larson, Nancy J.** (Kansas Industrial Extension Services), and **Stokes, Robert W.**, Kansas Department of Transportation, \$60,000, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."

**Riding, Kyle**, Kansas Department of Transportation, \$174,000, "Evaluation of Concrete Strength and Permeability."

**Riding, Kyle**, Kansas Department of Transportation, \$43,500, "Kansas Sustainable Concrete Pavements Initiative."

**Riding, Kyle**, Kansas Department of Transportation, \$38,945, "Kansas Sustainable Concrete Pavements Initiative - Potential Use of Nanotechnology."

**Riding, Kyle**, and **Esmaily, Asadollah**, Kansas Department of Transportation, \$11,700, "Measurement of the Pore Size Distribution of Limestone Aggregates in Concrete Pavement Cores."

**Riding, Kyle**, National Science Foundation, \$174,999, "BRIDGE: Linking the Microstructure, Performance, and Sustainability of Mixed Glass Cullet Blended Cements."

**Riding, Kyle**, and **Yuan, Wenqiao** (Biological and Agricultural Engineering), National Science Foundation, \$4,200, "Collaborative Research: New Natural Supplementary Cementitious Materials for Concrete."

**Riding, Kyle**, US Department of Transportation, \$30,000, "Effect of Y-Cracking on CRCP Performance (PS-14)."

**Riding, Kyle**, US Department of Transportation, \$7,200, "Implementation of Alternatives to Asphalt Concrete Subbases for Concrete Pavement."

**Russell, Eugene R.**, **Rys, Andrew** (Electrical and Computer Engineering), and **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$22,250, "A Review of KDOT Overhead Guide Sign Lighting Policy."

**Russell, Eugene R.**, and **Landman, E. Dean**, Kansas Department of Transportation, \$25,000, "Optimizing the Analysis of Routing Oversize/Overweight Loads to Provide Efficient Freight Corridors."

**Steward, David R.**, **Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Stokes, Robert W.**, **Larson, Nancy J.** (Kansas Industrial Extension Services), and **Riding, Kyle**, Kansas Department of Transportation, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."

**Stokes, Robert W., Dissanayake, Sunanda, Hossain, Mustaque A., and Peterman, Robert J.**, US Department of Transportation, "Region VII University Transportation Center (UTC)."

**Stokes, Robert W., Bhandari, Alok, and Najjar, Yacoub M.**, US Department of Transportation, \$462,900, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

**Stokes, Robert W.**, US Department of Transportation, \$100,000, "Traffic Assistance Services for Kansas (TASK) Program (FY 2009-2011)."

**Warren, Steven, Hatcliff, John M.** (Computing and Information Sciences), **Natarajan, Balasubramaniam, Singh, Gurdip** (Computing and Information Sciences), and **Wallentine, Virgil E.** (Computing and Information Sciences), Cerner Corporation, "Falls Predictor Device."

**Warren, Steven, Hatcliff, John M.** (Computing and Information Sciences), **Robby, -** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), and **Wallentine, Virgil E.** (Computing and Information Sciences), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

**Warren, Steven, Andresen, Daniel A.** (Computing and Information Sciences), and **Hatcliff, John M.** (Computing and Information Sciences), National Science Foundation, \$3,000, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

#### **COMPUTING AND INFORMATION SCIENCES**

**Amtoft, Torben, Banerjee, Anindya, Hatcliff, John M., Ou, Xinming (Simon), and Robby, -**, US Department of Defense, "Evidence-based Trust in Large- Scale MLS Systems."

**Andresen, Daniel A., Hatcliff, John M., and Warren, Steven** (Civil Engineering), National Science Foundation, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

**Andresen, Daniel A., Hatcliff, John M., Robby, -, Vasserman, Eugene, and Warren, Steven** (Electrical and Computer Engineering), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

**Banerjee, Anindya, Amtoft, Torben, Hatcliff, John M., Ou, Xinming (Simon), and Robby, -**, US Department of Defense, "Evidence-based Trust in Large- Scale MLS Systems."

**Caragea, Doina, Das, Sanjoy** (Electrical and Computer Engineering), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$69,827, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

**Caragea, Doina, Das, Sanjoy** (Electrical and Computer Engineering), **Kluitenberg, Gerard J.** (Agronomy), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$25,932, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

**DeLoach, Scott A.**, US Department of Defense, \$90,923, "Human-Robot Teams Informed By Human Performance Moderator Functions."

**Erickson, Larry E., Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$221,780, "Expeditionary Capabilities Consortium."

**Gustafson, David A., and Singh, Gurdip**, GTM Sportswear, \$9,346, "CIS Internship Program."

**Gustafson, David A., Ou, Xinming (Simon), and Vasserman, Eugene**, National Technical Systems, Inc., \$98,100, "Service SOW - Consortium for Cyber-Security Excellence: A K-State, KBED, NTS and CABEM Cyber-security Partnership."

**Hatcliff, John M., Natarajan, Balasubramaniam (Civil Engineering), Singh, Gurdip, Wallentine, Virgil E., and Warren, Steven (Civil Engineering)**, Cerner Corporation, "Falls Predictor Device."

**Hatcliff, John M., Robby, -, Singh, Gurdip, Wallentine, Virgil E., and Warren, Steven (Civil Engineering)**, National Science Foundation, \$80,000, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

**Hatcliff, John M., Andresen, Daniel A., and Warren, Steven (Civil Engineering)**, National Science Foundation, \$9,000, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

**Hatcliff, John M., Amtoft, Torben, Banerjee, Anindya, Ou, Xinming (Simon), and Robby, -, US Department of Defense**, \$600,000, "Evidence-based Trust in Large-Scale MLS Systems."

**Hatcliff, John M., Andresen, Daniel A., Robby, -, Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering)**, US Department of Health and Human Services, \$75,000, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

**Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), Wallentine, Virgil E., and Zhang, Naiqian (Biological and Agricultural Engineering)**, National Science Foundation, \$338,428, "Infusing System Development and Sensor Technology in Education."

**Neilsen, Mitchell L.**, Sandia National Laboratories, \$40,000, "Interface Development for Thermal Battery Models (FY11)."

**Neilsen, Mitchell L.**, US Department of Agriculture, \$70,000, "Integration of Spillway Erosion Technology and WinTR-20 with WinDAM."

**Ou, Xinming (Simon)**, National Science Foundation, \$396,676, "TC: SMALL: Collaborative Research: Models and Techniques for Enterprise Network Security Metrics."

**Ou, Xinming (Simon), Gustafson, David A., and Vasserman, Eugene**, National Technical Systems, Inc., "Service SOW - Consortium for Cyber-Security Excellence: A K- State, KBED, NTS and CABEM Cyber-security Partnership."

**Ou, Xinming (Simon), Amtoft, Torben, Banerjee, Anindya, Hatcliff, John M., and Robby, -, US Department of Defense**, "Evidence-based Trust in Large-Scale MLS Systems."

**Robby, -, Hatcliff, John M., Singh, Gurdip, Wallentine, Virgil E., and Warren, Steven (Civil Engineering)**, National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

**Robby, -, National Science Foundation**, \$80,029, "Formal, Integrated Analysis Framework for Contract-Based Reasoning of Strong Properties of Open Systems."

**Robby, -, Amtoft, Torben, Banerjee, Anindya, Hatcliff, John M., and Ou, Xinming (Simon)**, US Department of Defense, "Evidence-based Trust in Large-Scale MLS Systems."

**Robby, -, Andresen, Daniel A., Hatcliff, John M., Vasserman, Eugene, and Warren, Steven** (Electrical and Computer Engineering), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

**Singh, Gurdip, Hatcliff, John M., Natarajan, Balasubramaniam** (Civil Engineering), **Wallentine, Virgil E., and Warren, Steven** (Civil Engineering), Cerner Corporation, \$46,996, "Falls Predictor Device."

**Singh, Gurdip, and Gustafson, David A.**, GTM Sportswear, "CIS Internship Program."

**Singh, Gurdip, Hatcliff, John M., Robby, -, Wallentine, Virgil E., and Warren, Steven** (Civil Engineering), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

**Singh, Gurdip, Neilsen, Mitchell L., Spears, Jacqueline D.** (Dean of Education), **Wallentine, Virgil E., and Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Development and Sensor Technology in Education."

**Vasserman, Eugene, Gustafson, David A., and Ou, Xinming (Simon)**, National Technical Systems, Inc., "Service SOW - Consortium for Cyber-Security Excellence: A K- State, KBED, NTS and CABEM Cyber-security Partnership."

**Vasserman, Eugene, Andresen, Daniel A., Hatcliff, John M., Robby, -, and Warren, Steven** (Electrical and Computer Engineering), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

**Wallentine, Virgil E., Hatcliff, John M., Natarajan, Balasubramaniam** (Civil Engineering), **Singh, Gurdip, and Warren, Steven** (Civil Engineering), Cerner Corporation, "Falls Predictor Device."

**Wallentine, Virgil E., Hatcliff, John M., Robby, -, Singh, Gurdip, and Warren, Steven** (Civil Engineering), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

**Wallentine, Virgil E., Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D.** (Dean of Education), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Development and Sensor Technology in Education."

## DEAN OF ENGINEERING

**Larson, Nancy J.**, Multi-Sponsor, \$9,505, "KINEX Multi-Sponsor."

**Vadlani, Praveen V., and Hohn, Keith L.** (Chemical Engineering), US Department of Defense, \$10,601, "Novel Process to Biomass Conversion to Butylenes."

## ELECTRICAL AND COMPUTER ENGINEERING

**Carpenter, Kenneth H.**, US Department of Energy, \$39,354, "Integrated Firing- System/Initiation-Train Modeling Enhancement."

**Das, Sanjoy, Caragea, Doina** (Computing and Information Sciences), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$69,827, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

**Das, Sanjoy**, and **Pahwa, Anil**, National Science Foundation, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."

**Das, Sanjoy**, **Caragea, Doina** (Computing and Information Sciences), **Kluitenberg, Gerard J.** (Agronomy), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$140,774, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

**Day, Dwight D.**, Sandia National Laboratories, \$46,376, "Advanced Memory Subsystem Research."

**Erickson, Larry E.**, **Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$120,131, "Expeditionary Capabilities Consortium."

**Gruenbacher, Don M.**, and **Schulz, Noel N.**, Kansas State University Foundation, "Power Affiliates."

**Gruenbacher, Don M.**, **Schulz, Noel N.**, and **Soldan, David L.**, National Science Foundation, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."

**Gruenbacher, Don M.**, **Monaco, Gregory E.** (Psychology), and **Scoglio, Caterina M.**, National Science Foundation, "GpENI: Great Plains Environment for Network Innovation."

**Gruenbacher, Don M.**, **Lewis, Christopher L.**, **Miller, Ruth D.**, **Natarajan, Balasubramaniam**, and **Pahwa, Anil**, US Department of Energy, \$180,000, "Wind Energy and Sustainable Energy Solutions."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$15,798, "Kansas Defense 2010."

**Kuhn, William B.**, Peregrine Semiconductor Corporation, \$6,920, "Noise Measurement in Silicon-on-Sapphire IC Process."

**Kuhn, William B.**, Sandia National Laboratories, \$85,905, "Phase V Research and Development at Kansas State University."

**Kuhn, William B.**, and **Rys, Andrew**, US Department of Defense, \$75,000, "Extreme Environmental Electronics in Silicon-on-Sapphire."

**Kuhn, William B.**, **Miller, Ruth D.**, **Pahwa, Anil**, and **Rys, Andrew**, US Department of Energy, "Curriculum Development in Sustainable Electric Power Generation."

**Kuhn, William B.**, US Department of Energy, \$51,986, "Design and Measurement Techniques for High Quality-factor Filters and Passive Components."

**Kuhn, William B.**, US Department of Energy, \$4,888, "Electrical Testing and Characterization of Thin Film Capacitors on Low Temperature Co-Fired Ceramic (LTCC)."

**Kuhn, William B.**, US Department of Energy, \$66,208, "Research in RFIC Design and LTCC Filter Implementations, Phase I FY2010 and Phase II FY2011."

**Lewis, Christopher L.**, **Gruenbacher, Don M.**, **Miller, Ruth D.**, **Natarajan, Balasubramaniam**, and **Pahwa, Anil**, US Department of Energy, "Wind Energy and Sustainable Energy Solutions."

**Miller, Ruth D.**, National Renewable Energy Laboratory, \$242,458, "High Plains Small-Wind- Turbine Test Center."

**Miller, Ruth D., Kuhn, William B., Pahwa, Anil, and Rys, Andrew**, US Department of Energy, \$65,000, "Curriculum Development in Sustainable Electric Power Generation."

**Miller, Ruth D., Carter, David A.** (Kansas Industrial Extension Services), **Scoglio, Caterina M.** (Kansas Industrial Extension Services), and **Snead, Bruce C.** (Kansas Industrial Extension Services), US Department of Energy, \$163,968, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."

**Miller, Ruth D., Gruenbacher, Don M., Lewis, Christopher L., Natarajan, Balasubramaniam, and Pahwa, Anil**, US Department of Energy, "Wind Energy and Sustainable Energy Solutions."

**Miller, Ruth D.**, US Department of Energy, \$44,733, "Wind for Schools Wind Application Center: Kansas."

**Natarajan, Balasubramaniam, Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., and Pahwa, Anil**, US Department of Energy, "Wind Energy and Sustainable Energy Solutions."

**Pahwa, Anil, and Das, Sanjoy**, National Science Foundation, \$96,519, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."

**Pahwa, Anil, Kuhn, William B., Miller, Ruth D., and Rys, Andrew**, US Department of Energy, "Curriculum Development in Sustainable Electric Power Generation."

**Pahwa, Anil, Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., and Natarajan, Balasubramaniam**, US Department of Energy, "Wind Energy and Sustainable Energy Solutions."

**Rys, Andrew, Russell, Eugene R.** (Civil Engineering), and **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$22,250, "A Review of KDOT Overhead Guide Sign Lighting Policy."

**Rys, Andrew, and Kuhn, William B.**, US Department of Defense, "Extreme Environmental Electronics in Silicon-on-Sapphire."

**Rys, Andrew, Kuhn, William B., Miller, Ruth D., and Pahwa, Anil**, US Department of Energy, "Curriculum Development in Sustainable Electric Power Generation."

**Schulz, Noel N., and Gruenbacher, Don M.**, Kansas State University Foundation, \$54,000, "Power Affiliates."

**Schulz, Noel N., Gruenbacher, Don M., and Soldan, David L.**, National Science Foundation, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."

**Scoglio, Caterina M., Gruenbacher, Don M., and Monaco, Gregory E.** (Psychology), National Science Foundation, \$17,791, "GpENI: Great Plains Environment for Network Innovation."

**Soldan, David L., Gruenbacher, Don M., and Schulz, Noel N.**, National Science Foundation, \$146,036, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."



**Warren, Steven**, Center for Integration of Medicine & Innovative Technology, \$10,000, "CIMIT Student Prize for Primary Healthcare."

**Warren, Steven, Bennett, Andrew G.** (Mathematics), and **Rebello, Nobel S.** (Physics), National Science Foundation, \$69,482, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

**Warren, Steven, Andresen, Daniel A.** (Computing and Information Sciences), **Hatcliff, John M.** (Computing and Information Sciences), **Robby, -** (Computing and Information Sciences), and **Vasserman, Eugene** (Computing and Information Sciences), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

#### **ENGINEERING EXPERIMENT STATION**

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$25,132, "Kansas Defense 2010."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$25,277, "Kansas Defense 2010."

**Jones, Byron W.**, Unicopiers, \$4,000, "Graduate Assistantship - Faryad Darabi Sahneh."

#### **INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING**

**Beck, B. Terry, Peterman, Robert J.** (Civil Engineering), and **Wu, Chih- Hang**, US Department of Transportation, \$289,429 (includes \$42,129 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

**Ben-Arieh, David H.**, and **Wu, Chih-Hang**, Children's Mercy Hospital, \$23,680, "Improved Deployment of the Tele-Tracking Bedboard Monitoring System."

**Easton, Todd W.**, Digestive Health Specialists, \$12,000, "Developing a Scheduling Software Package for Digestive Health Specialists."

**Easton, Todd W.**, US Department of Defense, \$37,420, "Part-Time M. S. Program in Industrial Engineering - Summer 2011."

**Easton, Todd W.**, US Department of Defense, \$59,989, "Part-Time M.S. Program in Industrial Engineering - Fall 2010."

**Easton, Todd W.**, US Department of Defense, \$56,311, "Part-Time M.S. Program in Industrial Engineering - Spring 2011."

**Lei, Shuting**, and **Chang, Zenghu** (Physics), National Science Foundation, \$8,400, "Collaborative Research: Mathematical Modeling and Experimental Study of Femtosecond Laser Machining of High Aspect Ratio Microstructures."

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

**Pei, Zhijian**, National Science Foundation, \$12,000, "Collaborative Research: Fundamental Research on Titanium Drilling with Rotary Ultrasonic Machining."

**Pei, Zhijian**, and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, \$5,500, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

**Pei, Zhijian**, National Science Foundation, \$24,998, "Workshop/Collaborative Research: 2011 NSF CAREER Proposal Writing Workshop."

**Rys, Malgorzata J.**, **Russell, Eugene R.** (Civil Engineering), and **Rys, Andrew** (Electrical and Computer Engineering), Kansas Department of Transportation, \$44,500, "A Review of KDOT Overhead Guide Sign Lighting Policy."

**Wu, Chih-Hang**, and **Ben-Arieh, David H.**, Children's Mercy Hospital, "Improved Deployment of the Tele-Tracking Bedboard Monitoring System."

**Wu, Chih-Hang**, **Beck, B. Terry**, and **Peterman, Robert J.** (Civil Engineering), US Department of Transportation, \$289,429 (includes \$42,129 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

### **INSTITUTE FOR ENVIRONMENTAL RESEARCH**

**Eckels, Steven J.**, Multisponsor, \$272,248, "Institute for Environmental Research Support"

**Eckels, Steven J.**, PAX Streamline, Inc., \$38,106, "Evaluation of Boiling in an Enhanced Refrigerant Evaporator."

**Eckels, Steven J.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Trane U.S. Inc., \$12,500, "Characterization of Droplets Emerging from a Flooded Evaporator."

**Eckels, Steven J.**, and **McCullough, Elizabeth A.**, US Department of Defense, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

**Eckels, Steven J.**, **Dunn, William L.** (Mechanical and Nuclear Engineering), **Erickson, Larry E.** (Center for Hazardous Substance Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$138,613, "Expeditionary Capabilities Consortium."

**Eckels, Steven J.**, US Department of Energy, \$213,310, "Boiling in an Enhanced Refrigerant Evaporator."

**Eckels, Steven J.**, **Beck, B. Terry** (Mechanical and Nuclear Engineering), **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), and **Sorensen, Christopher M.** (Physics), US Department of Energy, \$180,436, "Development of a Water Based, Critical Flow, Non- Vapor Compression Cooling Cycle."

**Eckels, Steven J.**, and **Jones, Byron W.**, US Department of Transportation, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

**Jones, Byron W.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Boeing Company, \$30,000, "Sponsor Research Agreement - KSU Project Agreement."

**Jones, Byron W.**, MITRE Corporation, \$4,520, "Aircraft Filter Evaluation."

**Jones, Byron W., and Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Transportation, \$38,087, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."

**Jones, Byron W., and Eckels, Steven J.,** US Department of Transportation, \$52,667, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

**McCullough, Elizabeth A., and Eckels, Steven J.,** US Department of Defense, \$98,434, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

**McCullough, Elizabeth A.,** US Department of Defense, \$1,317, "Thermal Insulation Values for Military Cold Weather Clothing."

### **KANSAS INDUSTRIAL EXTENSION SERVICES**

**Carter, David A., Miller, Ruth D.** (Electrical and Computer Engineering), **Scoglio, Caterina M., and Snead, Bruce C.,** US Department of Energy, \$163,968, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."

**Carter, David A., and Larson, Nancy J.,** US Environmental Protection Agency, "Kansas Pollution Prevention Grants 2010-11."

**Carter, David A.,** US Environmental Protection Agency, \$800, "Marshfield, Missouri Site Visit: Strategic Partnership with the KSU's Pollution Prevention Institute to Support Energy Management Initiative for Water and Wastewater Utilities."

**Carter, David A.,** US Environmental Protection Agency, \$25,000, "WSU EFC's Strategic Partnership with the KSU's Pollution Prevention Institute to Support Energy Management Initiative for Water and Wastewater Utilities."

**Hamel, Ryan J., and Larson, Nancy J.,** US Department of Agriculture, \$89,759, "Southeast Kansas Source-reduction Champions for Change Agency Partners with Industry and Municipalities to Provide Hands-on Technical Assistance to Foster and Measure Waste and Water Source-reduction Opportunities."

**Hamel, Ryan J., and Larson, Nancy J.,** US Environmental Protection Agency, "Source Reduction Healthcare and Lodging Facilities."

**Hanson, Brian R., and Snead, Bruce C.,** US Environmental Protection Agency, "National Radon Program Services."

**Larson, Nancy J.,** Kansas Department of Health and Environment, \$241,000, "Small Business Development Assistance Program 2011-12."

**Larson, Nancy J., Riding, Kyle** (Civil Engineering), and **Stokes, Robert W.** (Civil Engineering), Kansas Department of Transportation, \$20,000, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."

**Larson, Nancy J.,** Multi-Sponsor, \$19,299, "KINEX Multi-Sponsor."

**Larson, Nancy J., and Hamel, Ryan J.,** US Department of Agriculture, "Southeast Kansas Source-reduction Champions for Change Agency Partners with Industry and Municipalities to Provide Hands-on Technical Assistance to Foster and Measure Waste and Water Source-reduction Opportunities."

**Larson, Nancy J., and Carter, David A.**, US Environmental Protection Agency, \$166,590 (includes \$78,322 from industry partners), "Kansas Pollution Prevention Grants 2010- 11."

**Larson, Nancy J.**, US Environmental Protection Agency, \$269,000, "Small Business Environmental Assistance Program - FY11."

**Larson, Nancy J., and Hamel, Ryan J.**, US Environmental Protection Agency, \$68,066 (includes \$5,000 from industry match), "Source Reduction Healthcare and Lodging Facilities."

**Nelson, Richard G., Langemeier, Michael R.** (Agricultural Economics), **Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$12,190, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

**Scoglio, Caterina M., Carter, David A., Miller, Ruth D.** (Electrical and Computer Engineering), and **Snead, Bruce C.**, US Department of Energy, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."

**Snead, Bruce C., Carter, David A., Miller, Ruth D.** (Electrical and Computer Engineering), and **Scoglio, Caterina M.**, US Department of Energy, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."

**Snead, Bruce C., and Hanson, Brian R.**, US Environmental Protection Agency, \$7,460, "National Radon Program Services."

**Snead, Bruce C., and Hanson, Brian R.**, US Environmental Protection Agency, \$82,961, "National Radon Program Services."

**Snead, Bruce C.**, US Environmental Protection Agency, \$9,100 (includes \$3,600 from participant support), "Radon in Real Estate Workshops."

**Snead, Bruce C.**, US Environmental Protection Agency, \$134,977, "Radon Projects for Kansas."

**Snead, Bruce C.**, US Environmental Protection Agency, \$7,500 (includes \$2,400 from Course Participants), "Radon Resistant New Construction (RRNC) Workshop for Missouri."

**Snead, Bruce C.**, US Environmental Protection Agency, \$15,975, "Radon Training for EPA Headquarters Personnel."

**Snead, Bruce C.**, US Environmental Protection Agency, \$20,500 (includes \$10,000 from other funding), "Radon Training for the Nebraska State Radon Program 2010-11."

**Snead, Bruce C.**, US Environmental Protection Agency, \$5,830, "Regional Radon Training Center."

## **MECHANICAL AND NUCLEAR ENGINEERING**

**Abdou, Ali, Dunn, William L., and Shultis, J. Kenneth**, US Nuclear Regulatory Commission, "Establishment of Nuclear Engineering Faculty Development and Assistance Program at Kansas State University."

**Beck, B. Terry, Eckels, Steven J.** (Institute for Environmental Research), **Hosni, Mohammad H.**, and **Sorensen, Christopher M.** (Physics), US Department of Energy, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

**Cai, Liang-Wu**, National Aeronautics and Space Administration, \$37,335, "Acoustically Tailored Composite Rotocraft Fuselage Panels."

**Cai, Liang-Wu**, US Department of Defense, \$34,718, "Metamaterials for Acoustic Cloaking."

**Cai, Liang-Wu**, US Department of Defense, \$65,764, "Two and Three-Dimensional Broadband Acoustic Metamaterials via Homogenization and Multiple Scattering from Arrays of Natural Minerals."

**Dunn, William L., Eckels, Steven J.** (Institute for Environmental Research), **Erickson, Larry E.** (Center for Hazardous Substance Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$101,649, "Expeditionary Capabilities Consortium."

**Dunn, William L., Abdou, Ali, and Shultis, J. Kenneth**, US Nuclear Regulatory Commission, \$345,000, "Establishment of Nuclear Engineering Faculty Development and Assistance Program at Kansas State University."

**Dunn, William L., and Hosni, Mohammad H.**, US Nuclear Regulatory Commission, \$160,000, "Online Nuclear Engineering Laboratory (1Lab): Virtual Reactor Experiments."

**Erickson, Larry E., Dunn, William L., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$18,482, "Expeditionary Capabilities Consortium."

**Geuther, Jeffrey A., and Edgar, James H.** (Chemical Engineering), National Science Foundation, \$62,429, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."

**Geuther, Jeffrey A.**, Sandia National Laboratories, \$11,600, "Voluntary Security Enhancements for the Research and Test Reactor at Kansas State University."

**Geuther, Jeffrey A.**, Sandia National Laboratories, \$52,401, "Voluntary Security Enhancements for the Research and Test Reactor at Kansas State University."

**Geuther, Jeffrey A.**, US Department of Energy, \$141,218, "Educational and Research Infrastructure Enhancement at the Kansas State University Reactor."

**Hosni, Mohammad H., and Jones, Byron W.** (Institute for Environmental Research), Boeing Company, "Sponsor Research Agreement - KSU Project Agreement."

**Hosni, Mohammad H., and Eckels, Steven J.** (Institute for Environmental Research), Trane U.S. Inc., \$12,500, "Characterization of Droplets Emerging from a Flooded Evaporator."

**Hosni, Mohammad H., and Reinert, Dana M.** (Dean of Human Ecology), US Department of Defense, \$10,000, "Sponsorship of the Big 12 Engineering Summit."

**Hosni, Mohammad H., Beck, B. Terry, Eckels, Steven J.** (Institute for Environmental Research), and **Sorensen, Christopher M.** (Physics), US Department of Energy, \$180,436, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

**Hosni, Mohammad H.**, US Department of Energy, \$5,000, "Nuclear Energy University Programs Fellowship and Scholarship Support."

**Hosni, Mohammad H.**, and **Jones, Byron W.**, US Department of Health and Human Services, \$24,000, "Experimental Characterization of the Gaseous and Particulate Transport in a Commercial Aircraft Cabin Environment."

**Hosni, Mohammad H.**, and **Jones, Byron W.**, US Department of Health and Human Services, \$24,000, "Experimental Characterization of the Movement of Airborne Live Pathogens in a Commercial Aircraft Cabin Environment."

**Hosni, Mohammad H.**, and **Jones, Byron W.** (Institute for Environmental Research), US Department of Transportation, \$38,087, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."

**Hosni, Mohammad H.**, US Nuclear Regulatory Commission, \$30,230, "Innovative Nuclear Engineering Materials and Corrosion Modules for Enhancement and Expansion of the US-NE Educational Infrastructure."

**Hosni, Mohammad H.**, and **Dunn, William L.**, US Nuclear Regulatory Commission, "Online Nuclear Engineering Laboratory (1Lab): Virtual Reactor Experiments."

**Jones, Byron W.**, and **Hosni, Mohammad H.**, US Department of Health and Human Services, "Experimental Characterization of the Gaseous and Particulate Transport in a Commercial Aircraft Cabin Environment."

**Jones, Byron W.**, and **Hosni, Mohammad H.**, US Department of Health and Human Services, "Experimental Characterization of the Movement of Airborne Live Pathogens in a Commercial Aircraft Cabin Environment."

**McGregor, Douglas S.**, Schlumberger Technology Corporation, \$100,000, "SIC Materials for Neutron Detectors."

**McGregor, Douglas S.**, US Army, \$129,168, "High Efficiency Solid State Neutron Detector."

**McGregor, Douglas S.**, US Department of Defense, \$1,378,797, "Multi-Disciplined Research in Nuclear Detection."

**Shultis, J. Kenneth, Abdou, Ali**, and **Dunn, William L.**, US Nuclear Regulatory Commission, "Establishment of Nuclear Engineering Faculty Development and Assistance Program at Kansas State University."

**Singh, Gurpreet**, National Science Foundation, \$59,171, "Exploring the Structure, Optical, and Electromechanical Properties of Polymer-derived Si(B) CN-Multiwall Carbon Nanotube Composite Nanowires."

**Wang, Youqi**, Albany Engineered Composites, Inc., \$54,915, "3D Woven Fiber Preform Forming Analysis."

**Wang, Youqi**, US Department of Defense, \$299,990, "Application of Digital Element Approach in Textile Mechanics."

## **NATIONAL GAS MACHINERY LABORATORY**

**Chapman, Kirby S.**, Pipeline Research Council International, Inc., \$73,000, "Modeling of NSCR Performance and EGO Sensor Output with Exhaust Mixtures from Natural Gas-Fueled Engines."

**Jones, Byron W.**, and **Eckels, Steven J.** (Institute for Environmental Research), US Department of Transportation, \$52,667, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

## COLLEGE OF HUMAN ECOLOGY

### **APPAREL, TEXTILES, AND INTERIOR DESIGN**

**Burdett, Joycelyn**, Cotton, Inc., \$56,017, "'Cotton: The Fabric of our Future - Today'."

**Erickson, Larry E.**, **Dunn, William L.** (Mechanical and Nuclear Engineering), **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$18,482, "Expeditionary Capabilities Consortium."

**McCullough, Elizabeth A.**, and **Eckels, Steven J.** (Institute for Environmental Research), US Department of Defense, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

### **DEAN OF HUMAN ECOLOGY**

**Goff, Briana S.**, American Military Communities, \$15,000, "NISH Hospitality Services Initiative."

**Moxley, Virginia M.**, AG\*IDEA, \$48,585, "AG\*IDEA Lead Institution."

**Moxley, Virginia M.**, Great Plains IDEA Alliance, \$247,328, "Great Plains IDEA Lead Institution."

**Moxley, Virginia M.**, US Army, \$10,000, "HSI Training in the US Army - Needs Assessment & Planning for the Development of an Educational Consortium."

**Reinert, Dana M.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Defense, "Sponsorship of the Big 12 Engineering Summit."

### **HOSPITALITY MANAGEMENT AND DIETETICS**

**Canter, Deborah D.**, US Department of Agriculture, \$74,999, "Development of a Web-Based Resource for Dietetic Educators and School Nutrition Professionals."

**Kwon, Junehee**, and **Sauer, Kevin L.**, US Department of Agriculture, \$600,000, "Assessment and Reduction of Produce Food Safety Risks in the School Foodservice System."

**Kwon, Junehee**, **Roberts, Kevin R.**, **Sauer, Kevin L.**, and **Shanklin, Carol W.** (Dean of Graduate School), US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition Program."

**Kwon, Junehee**, US Department of Agriculture, \$7,500, "Implementation of Food Safety Training Program in Residential Child Care Institutions (RCCI) in Kansas."

**Roberts, Kevin R., Kwon, Junehee, Sauer, Kevin L., and Shanklin, Carol W.** (Dean of Graduate School), US Department of Agriculture, \$1,599,981, "Center of Excellence for Food Safety Research in Child Nutrition Program."

**Sauer, Kevin L., and Kwon, Junehee,** US Department of Agriculture, "Assessment and Reduction of Produce Food Safety Risks in the School Foodservice System."

**Sauer, Kevin L., Kwon, Junehee, Roberts, Kevin R., and Shanklin, Carol W.** (Dean of Graduate School), US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition Program."

## **HUMAN NUTRITION**

**Chambers IV, Edgar,** Kansas State University Foundation, \$2,500, "Multisensory Therapeutic Garden Project (Amanda Rall)."

**Haub, Mark D.,** Penford Food Ingredients Co., \$9,768, "Glycemic Testing of Resistant Starch."

**Haub, Mark D.,** The United Sorghum Checkoff Program Board, \$55,750, "Metabolic Syndrome - Mitigation through Multi-System Effects of Dietary Exposure to Sorghum Bioactive Compounds."

**Haub, Mark D., Aramouni, Fadi M.** (Animal Sciences and Industry), and **Shi, Yong Cheng** (Grain Science and Industry), The United Sorghum Checkoff Program Board, \$45,000, "Sorghum as a Super Health Food II. Starch Digestibility and Glycemic Index of Sorghum Based Foods."

**Lin, Dingbo,** Kansas State University Foundation, \$1,200, "Cancer Center Travel Award - Experimental Biology 2011 Annual Meeting."

**Lin, Dingbo,** Kansas State University Foundation, \$1,000, "Wolfberry Bioactive Components Induce Jurkat Cell Apoptosis."

**Marcus, Daniel C.,** US Department of Health and Human Services, "Epithelial Function in Health and Disease."

**Medeiros, Denis M.,** US Department of Health and Human Services, \$220,050, "Kansas Bridges to the Future."

**Medeiros, Denis M.,** US Department of Health and Human Services, \$26,914, "Nucleotide- Mediated Foam Cell Formation in Smooth Muscle Cells (Fellowship - Tixieanna Dissmore)."

**Procter, Sandra B., Johannes, Elaine M.** (School of Family Studies and Human Services), and **Peters, Paula** (Director of Cooperative Extension), US Department of Agriculture, \$118,231, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

**Vazquez-Araujo, Laura,** Kansas Grain Sorghum Commission, \$32,728, "Understanding Needs for Grain Sorghum in Human Food Products from Consumers' Perspectives."

**Wang, Weiqun,** Kansas State University Foundation, \$5,000, "Lunar PIXImus Small Animal Densitometer (GE Medical System) Equipment Award."

**Wang, Weiqun,** Kansas State University Foundation, \$4,594, "Summer Stipend - Soyoung Lim."



**Wang, Weiqun**, Kansas State University Foundation, \$2,000, "Undergraduate Cancer Mentor Award."

**Wang, Weiqun**, US Department of Health and Human Services, \$56,000, "Mechanism of Cancer Prevention by Weight Control."

### **SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES**

**Britt, Sonya L.**, Angela Herbers, Inc., \$3,330, "Physiological Response to Financial Advisor's Office Environment."

**DeLuccie, Mary L.**, US Department of Agriculture, \$8,409, "Federal Aid in Support of the Child and Adult Care Food Program."

**Garcia, Jane M.**, and **Sellers, Debra**, US Department of Agriculture, "Traumatic Brain Injury (TBI): Promoting Public Knowledge."

**Glasscock, Marlene K.**, US Department of Agriculture, \$1,018,182, "4-H Air Force Military Partnership Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$2,727,273, "4-H Military Partnerships: 4-H Army Youth Development Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$415,418, "4-H Navy Partnership Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$500,000, "Children, Youth & Families at Risk 4-H Military Partnership Program."

**Glasscock, Marlene K.**, US Department of Agriculture, \$4,545,454, "DoD-USDA Partnership: Child Youth Deployment Support Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$252,264, "The Extension System - Military Collaboration Communication & Outreach."

**Griffin, Charles L.**, US Department of Health and Human Services, \$444,340, "Kansas SRS Strategic Development Training and Curriculum Support."

**Johannes, Elaine M.**, National 4-H Council, \$3,500, "KsBPYD (Kansas Building Partnerships for Youth Development) AYD - Advancing Youth Development Institute."

**Johannes, Elaine M.**, **Peters, Paula** (Director of Cooperative Extension), and **Procter, Sandra B.** (Human Nutrition), US Department of Agriculture, \$29,558, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

**Maddux, Estoria (Esther) M.**, Kansas Department of Social & Rehabilitation Services, \$4,950, "Problem Gambling Mini Grant."

**O'Conner, Nancy T.**, Kansas Health Solutions, LLC, \$19,913, "Home Based Family Therapy Training."

**O'Conner, Nancy T.**, US Department of Health and Human Services, \$299,965 (includes \$12,000 from third party match- Research Team), "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

**Sellers, Debra, and Garcia, Jane M.**, US Department of Agriculture, \$142,830, "Traumatic Brain Injury (TBI): Promoting Public Knowledge."

**Sellers, Debra**, US Department of Health and Human Services, \$34,425, "Kansas Optimizing Health Program (KOHP) Integration to KSRE System."

**Stith, Sandra M.**, US Department of Agriculture, \$736,364, "KSU/Air Force Family/Advocacy Research Analysis and Support Project."

## COLLEGE OF VETERINARY MEDICINE

### ANATOMY AND PHYSIOLOGY

**Blecha, Frank, and Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$216,608, "A Model for Developmental IFN Gene Regulation in the Virus-infected Fetus."

**Davis, Elizabeth G., and Kenney, Michael J.** (Clinical Sciences), Merial Limited, \$15,000, "2011 Merial Veterinary Scholars Program."

**Davis, Elizabeth G., and Kenney, Michael J.**, US Department of Health and Human Services, "Short-Term Training Students in Health Professional Schools."

**Kenney, Michael J.**, US Department of Health and Human Services, \$34,723, "BRITE Veterinary Student Program."

**Kenney, Michael J., and Davis, Elizabeth G.**, US Department of Health and Human Services, \$47,968, "Short-Term Training Students in Health Professional Schools."

**Marcus, Daniel C., and Wangemann, A. Philine**, US Department of Health and Human Services, "Cellular Regulation of Cochlear Blood Flow."

**Marcus, Daniel C.**, US Department of Health and Human Services, \$2,131,563, "Epithelial Function in Health and Disease."

**Musch, Timothy I., and Poole, David C.**, US Department of Health and Human Services, "Mechanisms of Muscle Microcirculatory Dysfunction in Heart Failure."

**Poole, David C.**, American College of Sports Medicine, \$5,000, "Vascular Dysfunction in Heart Failure: Effects of Fish Oil."

**Poole, David C.**, American Heart Association, Midwest Affiliate, \$52,000, "Skeletal Muscle Vascular Function in Chronic Heart Failure: Effects of Fish Oil (Steven Copp - Fellow)."

**Poole, David C., and Musch, Timothy I.**, US Department of Health and Human Services, \$263,193, "Mechanisms of Muscle Microcirculatory Dysfunction in Heart Failure."

**Sang, Yongming**, US Department of Agriculture, \$71,107, "Development of High Priority Immune Reagents for Food Security."

**Schultz, Bruce D., Chen, Jianhan** (Biochemistry), and **Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$29,886, "Model Synthetic Channel Assemblies."

**Shi, Jishu**, US Department of Health and Human Services, \$183,150, "Role of Defensin Receptor Signaling in IL-1beta Release."

**Troyer, Deryl L., Bossmann, Stefan** (Chemistry), and **Chikan, Viktor** (Chemistry), Kansas Bioscience Authority, "Intelligent Low Toxicity Materials for Cancer Diagnosis and Treatment."

**Troyer, Deryl L., Bossmann, Stefan** (Chemistry), and **Chikan, Viktor** (Chemistry), National Science Foundation, \$8,250, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

**Troyer, Deryl L., Bossmann, Stefan** (Chemistry), and **Gadbury, Gary L.** (Statistics), US Department of Health and Human Services, \$100,280, "Functionalized Bimagnetic Core/Shell Fe/Fe<sub>3</sub>O<sub>4</sub> Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

**Troyer, Deryl L.**, US Department of Health and Human Services, \$52,000, "Novel Paradigm using Monocytes with Magnetic Nanoparticles and SN-38 in Melanoma."

**Wangemann, A. Philine**, and **Marcus, Daniel C.**, US Department of Health and Human Services, \$293,454, "Cellular Regulation of Cochlear Blood Flow."

**Wangemann, A. Philine**, US Department of Health and Human Services, \$17,572, "Conditional Pendrin Mice Study."

**Weiss, Mark L.**, Northeast Kansas Parkinson's Association, \$2,000, "2011 Northeast Kansas Parkinson Association Research Fund."

**Weiss, Mark L.**, University of Kansas Medical Center Research Institute, Inc., \$140,000, "Modified Stem Cells as Therapeutic Agents in Spinal Cord Injury."

**Weiss, Mark L.**, University of Kansas Medical Center Research Institute, Inc., \$10,000, "Service Agreement with University of Kansas Medical Center - Dr. McGuirk."

**Weiss, Mark L.**, US Department of Health and Human Services, \$11,705, "Gradient-based Strategy for Osteochondral Regeneration."

## **CLINICAL SCIENCES**

**Anderson, David E.**, ABAXIS, Inc., \$5,592, "Validation of i-STAT and cTN-1 for Bovine Serum."

**Anderson, David E., Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

**Anderson, David E., Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

**Anderson, David E., Miesner, Matt D.** (Veterinary Medical Teaching Hospital), and **White, Bradley J.**, Intervet/Schering-Plough Animal Health, \$75,837, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

**Anderson, David E., Apley, Michael D., Laflin, Shelie L.** (Veterinary Medical Teaching Hospital), **Larson, Robert L., Miesner, Matt D.** (Veterinary Medical Teaching Hospital), **Sanderson, Michael W.**,

and **White, Bradley J.**, US Department of Agriculture, \$99,000, "Food Systems Veterinary Medicine for the 21st Century."

**Anderson, David E., Lillich, James D., and Roush, James K.**, US Department of Defense, \$218,808, "Advanced Nanomaterials for Biological Processes."

**Apley, Michael D., Anderson, David E., Laflin, Shelia L.** (Veterinary Medical Teaching Hospital), **Larson, Robert L., Miesner, Matt D.** (Veterinary Medical Teaching Hospital), **Sanderson, Michael W.**, and **White, Bradley J.**, US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

**Coetzee, Johann F., and Blasi, Dale A.** (Animal Sciences and Industry), Bayer Corporation, "Services Agreement."

**Coetzee, Johann F., Grauer, Gregory F., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Stenske, Katherine, and Zurek, Ludek** (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

**Davis, Elizabeth G., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), and **Stenske, Katherine**, Morris Animal Foundation, \$2,000, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."

**Davis, Elizabeth G., and Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), Pfizer, Inc., \$216,636, "Research Protocols Agreement - Immune Responses in Healthy Foals following Vaccination: Characterization of Immune Activation in First Year of Life, when Vaccination Protocol is Initiated at 90 Days of Age."

**Grauer, Gregory F.**, IDEXX Laboratories, Inc., \$122,599, "Serum and Urine Biomarker Study: Predicting/Identifying Early CKD."

**Grauer, Gregory F., Coetzee, Johann F., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Stenske, Katherine, and Zurek, Ludek** (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

**Grauer, Gregory F., Schermerhorn, Thomas, and Smee, Nicole** (Veterinary Medical Teaching Hospital), Vetoquinol USA, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

**Higginbotham, Mary Lynn, McCaw, Dudley, and McMurphy, Rose M.**, BioMed Valley Discoveries, Inc., "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."

**Hodgson, David S.**, US Agency for International Development, \$75,514, "Strengthening Afghanistan Agricultural Faculties (SAAF)."

**Kenney, Michael J., and Davis, Elizabeth G.** (Anatomy and Physiology), Merial Limited, "2011 Merial Veterinary Scholars Program."

**Larson, Robert L., Anderson, David E., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

**Larson, Robert L., Anderson, David E., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

**Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Larson, Robert L., Anderson, David E., Apley, Michael D., Laflin, Shelie L.** (Veterinary Medical Teaching Hospital), **Miesner, Matt D.** (Veterinary Medical Teaching Hospital), **Sanderson, Michael W.**, and **White, Bradley J.**, US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

**Lillich, James D., Anderson, David E.,** and **Roush, James K.**, US Department of Defense, "Advanced Nanomaterials for Biological Processes."

**Lillich, James D.**, US Department of Health and Human Services, \$52,000, "Novel Mechanisms of NSAID-induced GI Toxicity."

**Marcus, Daniel C.**, US Department of Health and Human Services, "Epithelial Function in Health and Disease."

**McCaw, Dudley, Higginbotham, Mary Lynn,** and **McMurphy, Rose M.**, BioMed Valley Discoveries, Inc., \$105,728, "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."

**McMurphy, Rose M., Higginbotham, Mary Lynn,** and **McCaw, Dudley**, BioMed Valley Discoveries, Inc., "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."

**Roush, James K., Anderson, David E.,** and **Lillich, James D.**, US Department of Defense, "Advanced Nanomaterials for Biological Processes."

**Rush, Bonnie R.**, Ross University, \$324,648, "Clinical Training for Ross University."

**Sanderson, Michael W.**, US Department of Agriculture, \$59,568, "Direct and Indirect Contacts among Livestock Operations in Colorado, Kansas, and New Mexico as Potential Transmitters of Foot and Mouth Disease."

**Sanderson, Michael W., Anderson, David E., Apley, Michael D., Laflin, Shelie L.** (Veterinary Medical Teaching Hospital), **Larson, Robert L., Miesner, Matt D.** (Veterinary Medical Teaching Hospital), and **White, Bradley J.**, US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

**Schermerhorn, Thomas, Grauer, Gregory F.,** and **Smee, Nicole** (Veterinary Medical Teaching Hospital), Vetoquinol USA, \$50,000, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

**Stenske, Katherine, Coetzee, Johann F., Grauer, Gregory F., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), and **Zurek, Ludek** (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, \$38,068, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

**Stenske, Katherine, Davis, Elizabeth G., and Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."

**Thomson, Daniel U., and Reinhardt, Christopher D.** (Animal Sciences and Industry), Pfizer, Inc., \$175,500, "Benchmarking and Improving Feedlot Performance, Carcass Quality, Animal Health, and Management and Procurement Practices based on Digestive and Respiratory Pathologic Anomalies Identified at Slaughter."

**White, Bradley J., Anderson, David E., Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Biomune Company, \$80,327, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

**White, Bradley J., Anderson, David E., Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Biomune Company, \$110,250, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

**White, Bradley J., Larson, Robert L., Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Biomune Company, \$124,762, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**White, Bradley J., Anderson, David E., and Miesner, Matt D.** (Veterinary Medical Teaching Hospital), Intervet/Schering-Plough Animal Health, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

**White, Bradley J., Anderson, David E., Apley, Michael D., Laflin, Shelie L.** (Veterinary Medical Teaching Hospital), **Larson, Robert L., Miesner, Matt D.** (Veterinary Medical Teaching Hospital), and **Sanderson, Michael W.**, US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

#### **DEAN OF VETERINARY MEDICAL CENTER**

**Anderson, Gary A.**, US Department of Agriculture, "Classical Swine Fever Surveillance."

**Anderson, Gary A., and Denell, Robin E.**, US Department of Agriculture, "Pseudorabies Surveillance."

**Richardson, Ralph C.**, Kansas State University Foundation, \$177,879, "Professorships/Chairs."

#### **DIAGNOSTIC MEDICINE/PATHOBIOLOGY**

**Anderson, Gary A., and Oberst, Richard D.**, Life Technologies Corporation, \$100,000, "Applied Biosystems Agreement."

**Anderson, Gary A.**, Nebraska, State of, \$25,000, "Nebraska Rabies."

**Bai, Jianfa, Anderson, Joseph W.** (Veterinary Diagnostic Laboratory), and **Hesse, Richard**, Pfizer, Inc., "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."

**Chang, Kyeong-Ok, and Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$19,240, "Counteraction of Alzheimer's Disease."

**Chang, Kyeong-Ok, and Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$552,162, "Development of Novel Therapeutic Agents for Norovirus Infection."

**Chengappa, M. M., and Rowland, Raymond R. R.,** US Department of Agriculture, "Research on Diseases of High Consequence to 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), Ajinomoto Heartland LLC, "Land O'Lakes Trial for 15 to 25 lb 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), Ajinomoto Heartland LLC, "Tryptophan to Lysine Ration for Nursery and Finisher 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), Archer Daniels Midland Company, "Effects of Vitamin E Level and Source (Natural vs Synthetic) on Sow Vitamin E Reserves and Milk Levels."

**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), Direct Biologicals, "The Use of Probiotic (Bacillus Product) in Diets for Growing and Finishing Pigs."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS Containing Finishing Pigs Diets on Growth Performance and Carcass Characteristics."

**Dritz, Steven S., Nagaraja, Tiruvoor G., Nelssen, Jim L.** (Animal Sciences and Industry), **Scott, Harvey M.,** and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Towards Controlling Antimicrobial Resistance in Swine Production Systems: Harnessing the Paradoxical Effects of Micro-Minerals and Feed-Grade Antimicrobials on Resistance in Enteric Bacteria."

**Dritz, Steven S., Bergstrom, Jonathan R.** (Animal Sciences and Industry), **DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Naturxan, LLC, "The Effects of Feeding Astaxanthin for 28-d Pre-harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing 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), Pfizer, Inc., \$57,820, "Influence of DDGS Withdrawal Post Vaccination on Growth Performance, Carcass Characteristics, Fatty Acid Analysis and Iodine Value of Pork Fat Depots."

**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, \$28,000, "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), Tech-Mix, "An Evaluation of the Effects of Liquitein on Weaning Pigs Administered a Mycoplasma/PCV2 Vaccine Regimen."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), The United Sorghum Checkoff Program Board, "Effects of Sorghum Distillers Grains on Pig Growth and Carcass Quality."

**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), UP-A- NOTCH R&D, "Effects of PEP2+ and Fishmeal on Nursery Pig Performance."

**Dryden, Michael W.**, Bayer Corporation, \$108,457, "Efficacy of Selamection and Imidacloprid-Moxidecton Combo Spot-Ons Against *C. felis* Infesting Cats."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Ceva Sante Animale, \$64,574, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%)/Permethrin (36.08% w/w) (Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult *Rhipicephalus Sanguineus* on Dogs."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Ceva Sante Animale, \$64,574, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%w/w)/Permethrin (36.08% w/w) (Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult *Amblyomma Americanum* on Dogs."

**Dryden, Michael W.**, Merial Corporation, \$87,307, "A Study to Evaluate the Acaricidal Efficacy of a Single Topical Treatment with ML-3,481,564 against *Dermacentor Variabilis* on Dogs."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Novartis Animal Health Inc., \$88,899, "Evaluation of Lufenuron and Spinosad Based Treatment Regimens to Control Flea Populations on Naturally Infested Dogs and Cats and in Private Residences in Tampa, FL 2011."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Novartis Animal Health Inc., \$70,111, "Evaluation of the Ovicidal Activity of Lufenuron and Spinosad on Fleas' Eggs from Treated Dogs."

**Ganta, Roman Reddy R.**, Higher Education Commission, \$3,500, "International Research Support Initiative Program for Zakir Ali."

**Ganta, Roman Reddy R.**, US Department of Health and Human Services, \$357,737, "Vector and Host Contributions to the Regulation of *E. chaffeensis* Gene Expression."

**Henry, Steven C., Hesse, Richard, Nietfeld, Jerome C.** (Veterinary Diagnostic Laboratory), and **Rowland, Raymond R. R.**, Pfizer, Inc., "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Syndrome."

**Hesse, Richard,** and **Rowland, Raymond R. R.**, Boehringer Ingelheim Vetmedica, Inc., \$50,000, "Porcine Teschovirus/enterovirus Model Development."



**Hesse, Richard, Henry, Steven C., Nietfeld, Jerome C.** (Veterinary Diagnostic Laboratory), and **Rowland, Raymond R. R.**, Pfizer, Inc., \$213,600, "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease **Hesse, Richard, Anderson, Joseph W.** (Veterinary Diagnostic Laboratory), and **Bai, Jianfa**, Pfizer, Inc., \$240,543, "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."

**Hesse, Richard, Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Burton, Kenneth R.** (National Agricultural Biosecurity Center), **Ma, Wenjun, Richt, Juergen, Rowland, Raymond R. R.**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Kastner, Justin J., Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$117,689, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

**Ma, Wenjun, Richt, Juergen**, and **Wyatt, Carol R.**, European Commission, \$642,974, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

**Ma, Wenjun**, and **Richt, Juergen**, Hemispherx Biopharma, Inc., \$13,640, "Pandemic H1N1 in vitro Study with Hemispherx."

**Ma, Wenjun, Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Burton, Kenneth R.** (National Agricultural Biosecurity Center), **Hesse, Richard, Richt, Juergen, Rowland, Raymond R. R.**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Marcus, Daniel C.**, US Department of Health and Human Services, "Epithelial Function in Health and Disease."

**Mosier, Derek A., Anderson, David E.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Renter, David G.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

**Mosier, Derek A., Anderson, David E.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Renter, David G.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

**Mosier, Derek A., Larson, Robert L.** (Clinical Sciences), **Renter, David G.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Nagaraja, Tiruvoor G., Dritz, Steven S., Nelssen, Jim L.** (Animal Sciences and Industry), **Scott, Harvey M.**, and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Towards Controlling Antimicrobial Resistance in Swine Production Systems: Harnessing the Paradoxical Effects of Micro-Minerals and Feed-Grade Antimicrobials on Resistance in Enteric Bacteria."

**Narayanan, Sanjeevkumar**, Kansas State University Research Foundation, \$20,000, "Immunogenicity and Protective Effects of Recombinant Adhesin and Leukotoxin of Fusobacterium Necrophorum in Mice."

**Narayanan, Sanjeevkumar, Coetzee, Johann F.** (Clinical Sciences), **Grauer, Gregory F.** (Clinical Sciences), **Stenske, Katherine** (Clinical Sciences), and **Zurek, Luddek**, Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

**Narayanan, Sanjeevkumar, Davis, Elizabeth G.** (Clinical Sciences), and **Stenske, Katherine** (Clinical Sciences), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."

**Nguyen, Thu A.**, US Department of Health and Human Services, \$370,000, "Increasing Efficacy of Antineoplastic Drugs with Gap Junction Enhancers."

**Nguyen, Thu A., Hua, Duy H.** (Chemistry), and **Li, Jun** (Chemistry), US Department of Health and Human Services, \$71,040, "Nanoelectrode Array Based Electronics for Rapid Profiling of Cancerous Enzymes."

**Nguyen, Thu A.**, and **Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$12,929, "The Molecular Target of Gap Junction Enhancers."

**Oberst, Richard D.**, and **Anderson, Gary A.**, Life Technologies Corporation, "Applied Biosystems Agreement."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Ceva Sante Animale, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%)/Permethrin (36.08% w/w) (Vectra 3D ® Ceva) Combination Topical Spot-On to Repel and Kill Adult Rhipicephalus Sanguineus on Dogs."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Ceva Sante Animale, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%w/w)/Permethrin (36.08% w/w) (Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult Amblyomma Americanum on Dogs."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Novartis Animal Health Inc., "Evaluation of Lufenuron and Spinosad Based Treatment Regimens to Control Flea Populations on Naturally Infested Dogs and Cats and in Private Residences in Tampa, FL 2011."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Novartis Animal Health Inc., "Evaluation of the Ovicidal Activity of Lufenuron and Spinosad on Fleas' Eggs from Treated Dogs."

**Renter, David G., Anderson, David E.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Mosier, Derek A.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

**Renter, David G., Anderson, David E.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Mosier, Derek A.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, \$36,750, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

**Renter, David G., Larson, Robert L.** (Clinical Sciences), **Mosier, Derek A.**, and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Richt, Juergen, Ma, Wenjun**, and **Wyatt, Carol R.**, European Commission, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

**Richt, Juergen**, European Commission, \$7,577, "ORBIVAC."

**Richt, Juergen**, and **Ma, Wenjun**, Hemispherx Biopharma, Inc., "Pandemic H1N1 in vitro Study with Hemispherx."

**Richt, Juergen, and Rowland, Raymond R. R.**, Kansas Bioscience Authority, \$4,000,000, "Kansas Bioscience Matching Fund Program."

**Richt, Juergen**, US Department of Health and Human Services, \$185,000, "Molecular and Biological Characterization of Pandemic Flu: Role of HA and NA Proteins in Host Tropism, Pathogenesis and Reassortment."

**Richt, Juergen**, US Department of Health and Human Services, \$583,522, "NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS)."

**Richt, Juergen, and Ma, Wenjun**, US Department of Health and Human Services, \$15,000, "NIAID Training for Dr. I Gusti Ngurah Mahardika."

**Richt, Juergen**, US Department of Health and Human Services, \$427,611, "Pathogenesis, Transmission and Detection of Zoonotic Prion Diseases."

**Richt, Juergen, Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Burton, Kenneth R.** (National Agricultural Biosecurity Center), **Hesse, Richard, Ma, Wenjun, Rowland, Raymond R. R.**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, \$1,639,778, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Rowland, Raymond R. R.**, and **Hesse, Richard**, Boehringer Ingelheim Vetmedica, Inc., "Porcine Teschovirus/enterovirus Model Development."

**Rowland, Raymond R. R.**, and **Richt, Juergen**, Kansas Bioscience Authority, "Kansas Bioscience Matching Fund Program."

**Rowland, Raymond R. R.**, National Pork Board, \$299,842, "PRRS Host Genetics Consortium: A Proposal to Continue Consortium Work to Study the Role of Host Genetics and Resistance to PRRSV - Year 3."

**Rowland, Raymond R. R.**, **Henry, Steven C.**, **Hesse, Richard**, and **Nietfeld, Jerome C.** (Veterinary Diagnostic Laboratory), Pfizer, Inc., "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Syndrome."

**Rowland, Raymond R. R.**, and **Chengappa, M. M.**, US Department of Agriculture, \$400,000, "Research on Diseases of High Consequence to Swine."

**Rowland, Raymond R. R.**, and **Blecha, Frank** (Anatomy and Physiology), US Department of Health and Human Services, \$216,608, "A Model for Developmental IFN Gene Regulation in the Virus-infected Fetus."

**Rowland, Raymond R. R.**, **Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Burton, Kenneth R.** (National Agricultural Biosecurity Center), **Hesse, Richard, Ma, Wenjun, Richt, Juergen**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Scott, Harvey M.**, **Dritz, Steven S.**, **Nagaraja, Tiruvoor G.**, **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, \$49,943, "Towards Controlling Antimicrobial Resistance in Swine Production Systems: Harnessing the Paradoxical Effects of Micro-Minerals and Feed-Grade Antimicrobials on Resistance in Enteric Bacteria."

**Van Der Merwe, Deon, and Datta, Saugata** (Geology), US Department of the Interior, \$11,970, "Pariette Wetlands Salinity/Selenium Study."

**Wilkerson, Melinda, and Davis, Elizabeth G.** (Clinical Sciences), Pfizer, Inc., "Research Protocols Agreement - Immune Responses in Healthy Foals following Vaccination: Characterization of Immune Activation in First Year of Life, when Vaccination Protocol is Initiated at 90 Days of Age."

**Wyatt, Carol R., Ma, Wenjun, and Richt, Juergen**, European Commission, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

**Zurek, Ludek, Coetzee, Johann F.** (Clinical Sciences), **Grauer, Gregory F.** (Clinical Sciences), **Narayanan, Sanjeevkumar, and Stenske, Katherine** (Clinical Sciences), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

**Zurek, Ludek**, Winn Feline Foundation, "Intestinal Biofilm Formation by Enterococci in Kittens - Determining the Identity and Virulence Determinants of those Associated with Life and Death."

#### **VETERINARY DIAGNOSTIC LABORATORY**

**Anderson, Gary A.**, US Department of Agriculture, \$23,837, "Classical Swine Fever Surveillance."

**Anderson, Gary A.**, US Department of Agriculture, \$21,450, "Classical Swine Fever Surveillance."

**Anderson, Gary A.**, US Department of Agriculture, \$50,000, "NAHLN: KS."

**Anderson, Gary A., and Denell, Robin E.**, US Department of Agriculture, \$7,150, "Psuedorabies Surveillance."

**Anderson, Gary A., Burton, Kenneth R.** (National Agricultural Biosecurity Center), **Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (Diagnostic Medicine/Pathobiology), **Richt, Juergen** (Diagnostic Medicine/Pathobiology), **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Anderson, Joseph W., Bai, Jianfa** (Diagnostic Medicine/Pathobiology), and **Hesse, Richard** (Diagnostic Medicine/Pathobiology), Pfizer, Inc., "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."

**Hanlon, Cathleen A.**, Pfizer, Inc., \$15,205, "Quantitation of Rabies Virus Neutralizing Anitbody (RVNA) Levels by the Rapid Fluorescent Focus Inhibition Test (RFFIT) per Kansas State University Rabies Laboratory SOP."

**Nietfeld, Jerome C., Henry, Steven C.** (Diagnostic Medicine/Pathobiology), **Hesse, Richard** (Diagnostic Medicine/Pathobiology), and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), Pfizer, Inc., "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Syndrome."

#### **VETERINARY MEDICAL TEACHING HOSPITAL**

**Arck, Shirley T.**, University of Kansas, \$10,400, "Training of Pharmacy D. Students."

**Fingland, Roger B.**, City of Manhattan, KS, \$11,400, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

**Fingland, Roger B.**, Friends of the Sunset Zoo, \$2,000, "Sunset Zoo Internship Program."

**Laflin, Shelie L., Anderson, David E.** (Clinical Sciences), **Apley, Michael D.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Miesner, Matt D., Sanderson, Michael W.** (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

**Miesner, Matt D., Anderson, David E.** (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), Intervet/Schering-Plough Animal Health, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

**Miesner, Matt D., Anderson, David E.** (Clinical Sciences), **Apley, Michael D.** (Clinical Sciences), **Laflin, Shelie L., Larson, Robert L.** (Clinical Sciences), **Sanderson, Michael W.** (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

**Smee, Nicole, Grauer, Gregory F.** (Clinical Sciences), and **Schermerhorn, Thomas** (Clinical Sciences), Vetoquinol USA, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

## KANSAS COOPERATIVE EXTENSION SERVICE

### **AGRICULTURAL ECONOMICS**

**Leatherman, John C.**, US Environmental Protection Agency, \$45,696 (includes \$9,150 from BMP members, and \$5,000 from CCD's and SLT members), "Upper Neosho Implementation."

### **AGRICULTURE AND NATURAL RESOURCES**

**Kahl, Daniel W.**, and **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, "Middle Kansas WRAPS PRIDE."

**Kahl, Daniel W.**, and **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, "Kansas PRIDE Program - Tuttle Creek Watershed."

**Murphy, James P.**, and **Ebert, Kerri L.** (Biological and Agricultural Engineering), US Department of Agriculture, \$51,000, "2011 Kansas SARE Professional Development Program."

**Murphy, James P.**, US Department of Agriculture, \$312,642, "Kansas Agricultural Mediation Service."

**Murphy, James P.**, US Department of Agriculture, \$139,569, "Renewable Resources Extension Act Program."

### **AGRONOMY**

**Eberle, William M., Presley, DeAnn R.**, and **Ruiz Diaz Suarez, Dorivar A.**, Kansas Department of Health and Environment, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

**Presley, DeAnn R., Eberle, William M., and Ruiz Diaz Suarez, Dorivar A.,** Kansas Department of Health and Environment, \$12,571, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

**Ruiz Diaz Suarez, Dorivar A., Eberle, William M., and Presley, DeAnn R.,** Kansas Department of Health and Environment, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

## **BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**Rogers, Danny H.,** Kansas Water Office, \$25,000, "Technical Assistance to Water Users: K- State Mobile Irrigation Lab."

## **COUNTY AGENTS - METROPOLITAN SECTOR**

**McMahon, Rebecca L., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A., Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

**Smith, Jennifer A., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L., Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

## **COUNTY AGENTS-NORTHWEST SECTOR**

**Dickman, Holly, Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Phillips, Thomas W.** (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Extension IPM Coordination **DIRECTOR OF COOPERATIVE EXTENSION Lindquist, Jack W.,** Kansas Agriculture and Rural Leadership, Inc., \$98,020, "Kansas Agriculture and Rural Leadership, Inc.."

**Peters, Paula, and Hudson, Karen S.** (Human Nutrition), US Department of Agriculture, "Kansas Food Assistance Nutrition Education Plan."

**Peters, Paula,** US Department of Agriculture, \$690,720, "Military Life Skills Education Program at Ft. Riley, Kansas."

**Peters, Paula, Johannes, Elaine M.** (School of Family Studies and Human Services), and **Procter, Sandra B.** (Human Nutrition), US Department of Agriculture, \$443,368, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

**Phillips, Thomas W., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

#### **FOUR-H YOUTH DEVELOPMENT**

**Gerhard, Gary W.,** Noyce Foundation, \$1,500, "Kansas 4-H Science Academy Basic Implementation Grant."

**Gerhard, Gary W.,** Noyce Foundation, \$5,000, "Kansas 4-H Science Academy Expanded Implementation Grant."

**Gerhard, Gary W.,** US Department of Agriculture, \$140,000, "Empowering Kansas Youth to Improve Their Physical Health."

**Gerhard, Gary W.,** US Department of Justice, \$82,000, "Kansas 4-H Tech Wizards: 4-H National Mentoring Program."

#### **HUMAN NUTRITION**

**Hudson, Karen S.,** and **Peters, Paula** (Director of Cooperative Extension), US Department of Agriculture, \$3,421,868 (includes \$1,073,773 from in-kind support), "Kansas Food Assistance Nutrition Education Plan."

#### **KANSAS FOREST SERVICE**

**Atchison, Robert L., Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Presley, DeAnn R.** (Agronomy), US Department of the Interior, \$18,467, "FY 2011 Kansas Water Resources Research Institute."

**Atchison, Robert L.,** and **Beck, William J.,** US Environmental Protection Agency, \$30,000, "Riparian Forest Management and Coordination Technical Assistance."

**Beck, William J.,** and **Atchison, Robert L.,** US Environmental Protection Agency, "Riparian Forest Management and Coordination Technical Assistance."

**Biles, Larry E.,** State Conservation Commission, \$40,000, "Riparian Forest Buffer Restoration."

**Biles, Larry E.,** US Department of Agriculture, \$335,423, "Consolidated Payment Grant 2010."

**Biles, Larry E.,** US Department of Agriculture, \$70,000, "NRCS Technical Service MOU 2008."

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

**Graham, Steven M., and Kahl, Daniel W.** (Agriculture and Natural Resources), Kansas Department of Health and Environment, \$17,500, "Middle Kansas WRAPS PRIDE."

**NORTHEAST AREA OFFICE**

**Duncan, Stewart R.,** Cotton, Inc., \$3,855, "Cotton Variety Performance Tests for Kansas."

**Duncan, Stewart R., Martin, Kent L.** (Southwest Area Office), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

**Duncan, Stewart R., Jardine, Douglas J.** (Plant Pathology), **Shoup, Douglas E.** (Southeast Area Office), and **Todd, Timothy C.** (Plant Pathology), Kansas Soybean Commission, "Kansas Soybean Cyst Nematode Survey."

**Duncan, Stewart R., and Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$5,000, "Soybean Response to Fungicides and Insecticides."

**Duncan, Stewart R.,** Multi-Sponsor, \$400, "Crop and Soils Multisponsor Programs."

**NORTHWEST AREA OFFICE**

**Falk, Jeanne S., OBrien, Robert T., and Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

**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., Geier, Patrick W.** (Agricultural Research Center-Hays), and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, "Managing Glyphosate-resistant Kochia Preplant and Postplanting in No-till Grain Sorghum."

**O'Brien, Daniel M., Peterson, Dallas E.** (Agronomy), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Soybean Commission, "Managing Glyphosate-Resistant Kochia in Soybeans."

**O'Brien, Daniel M., Aiken, Robert M.** (Northwest Research Extension Center), and **Lamm, Freddie R.** (Northwest Research Extension Center), National Sunflower Association, "Managing Deficit Sprinkler Irrigation for Sunflower Production."

**OBrien, Robert T., Falk, Jeanne S., and Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

**Olson, Brian L., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Maddux, Larry D.** (Agronomy), **Martin, Kent L.** (Southwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."



**Olson, Brian L., Rice, Charles W.** (Agronomy), and **Roozeboom, Kraig L.** (Agronomy), Kansas Soybean Commission, \$3,553, "Evaluation of Soybean Inoculant Products and Techniques to Address Soybean Nodulation Problems in Kansas."

**Olson, Brian L.**, Multi-Sponsor, \$27,700, "Field Evaluation for Various Industry Products."

**Phillips, Thomas W., Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), **Buschman, Larry L.** (Entomology), **Cloyd, Raymond A.** (Entomology), **DeWolf, Erick D.** (Plant Pathology), **Dickman, Holly** (County Agents-Northwest Sector), **Kennelly, Megan** (Plant Pathology), **McCornack, Brian P., McMahon, Rebecca L.** (County Agents - Metropolitan Sector), **Miller, Frannie L.** (Entomology), **Moyer, Joseph L.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), **Smith, Jennifer A.** (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

### SOUTHEAST AREA OFFICE

**Shoup, Douglas E., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Maddux, Larry D.** (Agronomy), **Martin, Kent L.** (Southwest Area Office), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, \$3,000, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Shoup, Douglas E., Duncan, Stewart R.** (Northeast Area Office), **Martin, Kent L.** (Southwest Area Office), and **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), Kansas Soybean Commission, \$3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

**Shoup, Douglas E., Duncan, Stewart R.** (Northeast Area Office), **Jardine, Douglas J.** (Plant Pathology), and **Todd, Timothy C.** (Plant Pathology), Kansas Soybean Commission, "Kansas Soybean Cyst Nematode Survey."

**Shoup, Douglas E., and Duncan, Stewart R.** (Northeast Area Office), Kansas Soybean Commission, \$5,000, "Soybean Response to Fungicides and Insecticides."

**Shoup, Douglas E.**, Multi-Sponsor, \$26,585, "Weed Science Research at Southeast Area Extension Office."

**Shoup, Douglas E., Holman, Johnathon D.** (Southwest Research Extension Center), **Martin, Kent L.** (Southwest Area Office), and **Stamm, Michael J.** (Agronomy), US Canola Association, "Promote Canola Acres in the Great Plains."

### SOUTHWEST AREA OFFICE

**Dumler, Troy, Currie, John A.** (Southwest Research Extension Center), **Maddux, Larry D.** (Agronomy), **Martin, Kent L., Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Dumler, Troy, Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrch Inst), **Golden, Bill B.** (Agricultural Economics), **Holman, Johnathon D.** (Southwest Research

Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$4,235, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Martin, Kent L., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy, Maddux, Larry D.** (Agronomy), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, \$4,000, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Martin, Kent L., Duncan, Stewart R.** (Northeast Area Office), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

**Martin, Kent L.,** Multi-Sponsor, \$3,284, "Chemical Evaluation."

**Martin, Kent L., Holman, Johnathon D.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), and **Stamm, Michael J.** (Agronomy), US Canola Association, "Promote Canola Acres in the Great Plains."

**Sloderbeck, Phillip E.,** US Department of Agriculture, \$7,000, "Technology Transfer Program for Integrated Pest Management of Potato Psyllid to Minimize the Incidence of Zebra Chip in Potatoes."

## OFFICE OF THE PRESIDENT

### AUDITORIUM

**Holmberg, Todd,** National Foundation on the Arts and the Humanities, \$430,286 (includes \$425,000 from outside contributor support), "McCain Auditorium Operational Support, 2011."

### BEACH ART MUSEUM

**Render, Lorne E.,** Kansas Arts Commission, \$1,000, "George Kren Photographs Exhibition."

**Render, Lorne E.,** National Foundation on the Arts and the Humanities, \$5,286, "Beach Museum of Art General Operating Support, 2011."

**Schlageck, Kathrine W.,** National Foundation on the Arts and the Humanities, \$20,574 (includes \$4,574 from in-kind support), "Beach Museum of Art Educational Programming, FY2011."

## OFFICE OF THE PROVOST

### CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT

**Procter, David E.,** Kettering Foundation, \$14,000, "Midwest Democracy Project."

**Procter, David E.,** Kettering Foundation, \$10,000, "Moderator Guidebook."

**Procter, David E.,** Kettering Foundation, \$14,000, "Moderator Training Survey."

**Procter, David E.**, Kettering Foundation, \$5,000, "New Center Faculty."

**Steichen, Ethel M.**, Heartland Foundation, \$26,156, "Heartland Foundation Evaluation Continuation - Years 4 - 6."

**Steichen, Ethel M.**, Interactivity Foundation, \$24,259, "Retrospective - Pre Method."

#### **DEAN OF CONTINUING EDUCATION**

**Newhouse, Barbara S.**, US Department of Education, \$225,000, "Assessment Literacy Project."

#### **DEAN OF GRADUATE SCHOOL**

**Lease, Kevin B.**, National Aeronautics and Space Administration, \$29,972, "Kansas Space Grant Consortium."

**Polson, Cheryl J.**, and **Shanklin, Carol W.**, US Department of Education, "CGSCF - For Curriculum and Course Development for a Homeland Security Masters Degree Program."

**Shanklin, Carol W.**, **Kwon, Junehee** (Hospitality Management and Dietetics), **Roberts, Kevin R.** (Hospitality Management and Dietetics), and **Sauer, Kevin L.** (Hospitality Management and Dietetics), US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition Program."

**Shanklin, Carol W.**, and **Polson, Cheryl J.**, US Department of Education, \$153,076, "CGSCF - For Curriculum and Course Development for a Homeland Security Masters Degree Program."

#### **INTERNATIONAL PROGRAMS**

**Michie, Barry H.**, US Department of Education, \$89,554, "South Asia Project."

**Wood, Mary**, NCN Institute, \$11,660, "English Training Sponsorship."

#### **LIBRARY**

**Schenck-Hamlin, Donna C.**, US Department of Homeland Security, \$14,589, "National Center for Food Protection and Defense."

#### **OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT**

**Gordon, Myra E.**, and **Ehie, Ike C.** (Management), British American Tobacco Plc., \$34,022, "Advancing Economic Development through Strengthening the MBA Programs in Nigeria."

#### **OFFICE OF THE PROVOST**

**Champion, Benjamin**, **Devlin, Daniel L.** (Agronomy), and **Rice, Charles W.** (Agronomy), National Science Foundation, \$1,229,101, "CCEP-I: Central Great Plains Climate Change Education Partnership."

**Mason, April**, US Department of Defense, \$1,957,520, "Kansas State University (KSU) Graduate Degree Program Development and Implementation for CGSC Leadership and Security Studies: Enhance Cooperative Degree Program in History."

**Trewyn, R. W., Kramer, Bradley A.** (Advanced Manufacturing Institute), **Madl, Ronald L.** (Grain Science and Industry), **Richardson, Daniel C.** (K-State Olathe Innovation Campus), and **Tucker, Jeffrey W.** (Advanced Manufacturing Institute), National Science Foundation, "Kansas Bioprocessing Science and Engineering Center."

### **SCHOOL OF LEADERSHIP STUDIES**

**Lindsey, Matthew**, Corporation for National and Community Service, \$70,400, "Careers for the Common Good."

**Lindsey, Matthew**, Corporation for National and Community Service, \$8,333 (includes \$5,833 from mini-grant recipients), "Kansas Campus Compact MLK Collegiate Challenge."

**Lindsey, Matthew**, Corporation for National and Community Service, \$26,056, "Midwest Campus Compact STEM Consortium."

**Tolar, Mary H.**, Corporation for National and Community Service, \$19,999, "Get Hands On."

**Tolar, Mary H.**, Soaring with Eagles Foundation, \$32,000, "Soaring with Eagles Foundation Curriculum Pilot."

### **VICE PRESIDENT FOR COMMUNICATIONS AND MARKETING**

**Nelson, Robert F.**, US Department of Commerce, \$249,000, "Construction Project."

## **SALINA COLLEGE OF TECHNOLOGY AND AVIATION**

### **SALINA APPLIED AVIATION RESEARCH CENTER**

**Barnhart, Richard K., and Shappee, Eric J.** (Salina Aviation), MBDA Incorporated, \$2,500, "UAS Facilities and/or Services License Agreement-MBDA."

**Barnhart, Richard K., and Shappee, Eric J.**, University of Colorado, \$650, "UAS Facilities and/or Services License Agreement-CU."

**Barnhart, Richard K., and Shappee, Eric J.**, University of Kansas Center for Research, Inc., \$500, "UAS Facilities and/or Services License Agreement-KUCR."

**Barnhart, Richard K., and Khan, Saeed M.** (Salina Engineering Technology), US Department of Defense, \$16,739, "UAS Mission Planning, Operations, and Disaster Training Center."

**Shappee, Eric J., and Barnhart, Richard K.**, University of Colorado, "UAS Facilities and/or Services License Agreement-CU."

**Shappee, Eric J., and Barnhart, Richard K.**, University of Kansas Center for Research, Inc., "UAS Facilities and/or Services License Agreement-KUCR."

### **SALINA ARTS, SCIENCE AND BUSINESS**

**Heublein, John A., and Von Bergen, Donald**, US Department of Education, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

**Von Bergen, Donald, and Heublein, John A.**, US Department of Education, \$4,500, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

### **SALINA AVIATION**

**Karcz, Thomas L.**, National Aeronautics and Space Administration, \$20,288, "Aeroelastic Modeling Effects and Flight Test Demonstration of Resilient Adaptive Flight Controls on a General Aviation Testbed: Dynamic Inverse and Adaptive Critic Methods."

**Shappee, Eric J., and Barnhart, Richard K.** (Salina Applied Aviation Research Center), MBDA Incorporated, "UAS Facilities and/or Services License Agreement-MBDA."

### **SALINA ENGINEERING TECHNOLOGY**

**Khan, Saeed M., and Barnhart, Richard K.** (Salina Applied Aviation Research Center), US Department of Defense, "UAS Mission Planning, Operations, and Disaster Training Center."

## VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

### **KSU POLICE DEPARTMENT**

**Stubbings, Donald C.**, Kansas Department of Revenue, \$5,097, "Underage Drinking at KSU Football."

**Stubbings, Donald C.**, Kansas Department of Transportation, \$2,000, "Special Traffic Enforcement Program (STEP)."

## VICE PRESIDENT FOR RESEARCH

### **BIOTECHNOLOGY DESIGN LABORATORY**

**Tomich, John M.**, Multisponsor, \$50,004.68, "Biotechnology Laboratory Support"

### **ELECTRONIC DESIGN LABORATORY**

**Sobering, Timothy J.**, Multisponsor, \$139,083.77, "Electronic Design Laboratory Support"

### **BIOSECURITY RESEARCH INSTITUTE**

**Dvorak, Tanya**, Elizabeth R. Griffin Research Foundation, Inc., \$19,852, "Development and Efficacy of a Large Animal Handling Safety Video."

**Rusk, John S.**, US Department of Agriculture, \$320,990, "Research of Arthropod - Vecteded Diseases of Livestock."

### **K-STATE OLATHE INNOVATION CAMPUS**

**Richardson, Daniel C., Kramer, Bradley A.** (Advanced Manufacturing Institute), **Madl, Ronald L.** (Grain Science and Industry), **Trewyn, R. W.** (Office of the Provost), and **Tucker, Jeffrey W.** (Advanced Manufacturing Institute), National Science Foundation, "Kansas Bioprocessing Science and Engineering Center."

## **NATIONAL AGRICULTURAL BIOSECURITY CENTER**

**Beardsley, Craig A., and Burton, Kenneth R.**, US Department of Agriculture, \$440,000, "Development and Delivery of a Targeted NAHLN Technical Training Support Program."

**Beardsley, Craig A., Fund, Joey L., and Vanier, Martha A.**, US Department of Defense, \$1,390,298, "Enabling Technologies for Detecting, Characterizing and Modeling Bioagents in Military Food Rations."

**Beardsley, Craig A.**, US Department of Defense, \$53,000, "Kansas National Guard - Afghan Agricultural Development Team Training Program - 2011."

**Beardsley, Craig A.**, US Department of Defense, \$105,000, "Kansas National Guard - Afghan Agriculture Team Training Program - No. 3."

**Burton, Kenneth R., and Beardsley, Craig A.**, US Department of Agriculture, "Development and Delivery of a Targeted NAHLN Technical Training Support Program."

**Burton, Kenneth R., Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (Diagnostic Medicine/Pathobiology), **Richt, Juergen** (Diagnostic Medicine/Pathobiology), **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), and **Vanier, Martha A.**, US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Fund, Joey L., Beardsley, Craig A., and Vanier, Martha A.**, US Department of Defense, "Enabling Technologies for Detecting, Characterizing and Modeling Bioagents in Military Food Rations."

**Vanier, Martha A., Beardsley, Craig A., and Fund, Joey L.**, US Department of Defense, "Enabling Technologies for Detecting, Characterizing and Modeling Bioagents in Military Food Rations."

**Vanier, Martha A.**, US Department of Defense, \$4,720,000, "Infrastructure Support for the KSU Biosecurity Research Institute Facility."

**Vanier, Martha A., Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Burton, Kenneth R., Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (Diagnostic Medicine/Pathobiology), **Richt, Juergen** (Diagnostic Medicine/Pathobiology), and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Vanier, Martha A.**, US Department of Homeland Security, \$15,000, "DHS Lessons Learned."

## **OFFICE OF RESEARCH AND SPONSORED PROGRAMS**

**Guikema, James A., Dunn, William L.** (Mechanical and Nuclear Engineering), **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, "Expeditionary Capabilities Consortium."

## **VICE PRESIDENT ELECTRONICS DESIGN LABORATORY**

**Taylor, Russell D.**, Honeywell Federal Manufacturing & Technologies, LLC, \$94,809, "Electro-Optical Data Logger Development."

## VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

### **EDUCATIONAL AND PERSONAL DEVELOPMENT**

**Greene, Kathleen V.**, Multi-Sponsor, \$1,495, "Ronald E. McNair Post Baccalaureate Achievement Program - Travel."

**Greene, Kathleen V.**, National Science Foundation, \$20,310, "McNair Scholars Program."

**Greene, Kathleen V.**, US Department of Education, \$252,000, "Kansas State University McNair Scholars Program."

**Greene, Kathleen V.**, US Department of Education, \$297,808, "Student Support Services at KSU-Manhattan."

**Greene, Kathleen V.**, US Department of Education, \$229,258, "Student Support Services at KSU-Salina."

**Holmes, JohnElla, Lynch, Michael L., and Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

**Lott, Cari D.**, US Department of Agriculture, \$4,988, "Kansas State University Upward Bound Program - Salina Summer 2010 Food Service Program."

**Lynch, Michael L.**, Kauffman Scholars, Inc., \$92,204, "Campus Residential Institutes for Kauffman Scholars - 2010."

**Lynch, Michael L.**, Kauffman Scholars, Inc., \$62,744, "Campus Residential Institutes for Kauffman Scholars - 2011."

**Lynch, Michael L., Holmes, JohnElla, and Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

**Turner, Margaret A.**, US Department of Agriculture, \$5,233, "Kansas State University 2010 Upward Bound Math & Science Program Summer Food Service Program."

**Turner, Margaret A.**, US Department of Agriculture, \$6,497, "Kansas State University 2010 Upward Bound Program 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."

### **KSU CHILD DEVELOPMENT CENTER, INC.**

**Ring, Debra J.**, National Association of Child Care Resource & Referral Agencies, \$12,717, "After School Grant - Enhancing Childhood Quality."

**Ring, Debra J.**, US Army, \$34,500, "Child Development Center Quality Improvement Plan."

**Ring, Debra J.**, US Department of Agriculture, \$82,203, "Child and Adult Care Food Program - Jardine Site."

**UNIVERSITY COUNSELING SERVICES**

**Arck Jr, William**, City of Manhattan, KS, \$37,000, "Youth Oriented Alcohol Abuse Prevention Program."

**VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS**

**Bosco, Pat J.**, Conoco, Inc., \$15,000, "ConocoPhillips SPIRIT Scholars Administration."

**Bosco, Pat J.**, Kansas State University Foundation, \$54,957, "Military Affairs Fund."



# FACULTY DEVELOPMENT AWARDS

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## Spring 2010

**Ben-Arieh, David H**, Industrial and Manufacturing Systems Engineering, \$500; Attend "Industrial Engineering Research" conference held in Mexico

**Berry, Vikas**, Chemical Engineering, \$2,000; Present "Chemical and Mechanical Manipulation of Graphene for Biosensors and Quantum Devices" at the Recent Advances in Graphene and Related Materials conference held in Singapore

**Betz, Emma**, Modern Languages, \$2,200; Present "Reported speech in different varieties of German: Marking sequential boundaries through syntactic pivot constructions" as part of the panel "Pivot Constructions in Talk-in-Interaction" and "Doing relationship work in the face of a problematic act"

**Clem, Rollie J**, Biology, \$1,200; Present at the Society for Invertebrate Pathology meeting held in Turkey

**Cochran, Mary L**, Music, \$1,500; Present "Overcoming Performance Anxiety" at the International British Flute Society's Convention held in England

**Datta, Saugata**, Geology, \$500; Attend the International Congress on Arsenic in the Environment held in Taiwan

**Dayton, Timothy A**, English, \$600; Present "The Bigness of Cannon: Modernism, Canon Revision, and the First World War" at the VII Historical Materialism conference held in London

**Esmaeily, Asadollah**, Civil Engineering, \$2,000; Present at the International Symposium on Life-Cycle Performance of Bridges and Structures held in China and Visit Hunan University Structural Laboratory

**Hoag, Linda A**, School of Family Studies and Human Services, \$1,000; Present "Integrating Pragmatic Theory and Empirical Evidence into Utterance-Based System Design" at the International Society for Augmentative and Alternative Communication conference held in Spain

**Hossain, Mustaque A**, Civil Engineering, \$1,000; Present 4 papers at the XI International conference on Asphalt Pavements held in Japan

**Hunt, Daniel W**, Art, \$1,000; Co-Chair at the International Conference on Cast Iron Art held in Wales

**Jumpponen, Ari M**, Biology, \$1,100; Present "Living on the edges: development of microbial communities and their functional attributes during early primary succession" at the International Mycological Congress held in the United Kingdom

**Kanost, Laura M**, Modern Languages, \$1,200; Present "Service Learning in a Conversation Course in Manhattan, Kansas: Rationale, Methods, Reactions, and Challenges" at the American Association of Teachers of Spanish and Portuguese Conference held in Mexico

**Martinez-Ortiz, Maria T**, Modern Languages, \$1,500; Present "The Mexican Screenplay and Women Writers: A Cultural Analysis" at the Screenwriting - History, Theory, and Practice Conference held in Denmark

**Matlock, Wendy A**, English, \$1,500; Present "Art and Order in Lydgate's The Debate of the Horse, the Goose, and the Sheep" at the Biennial Congress of the New Chaucer Society held in Italy

**McCrea, Heather L**, History, \$2,000; Present "Reunion/Conference of Mexican, U.S. and Canadian Historians of Mexico" at the Reunion of Historians of Mexico held in Mexico

**Muturi, Nancy W**, School of Journalism and Mass Communications, \$2,000; Present "Faith-Based Approach to Health and Behavior Change Communication: Potential and Challenges for Rural Communities in Kenya" and "Community-Based Participatory Approach to Health Literacy and HIV/AIDS Prevention: Evaluating the Service Learning Com"

**Mwangi, Sam**, School of Journalism and Mass Communications, \$2,000; Present "Communication Technologies and Citizen Engagement: A Case Study of the Innovation Incubator Project" and "Media and Citizen Engagement Projects: A Global Overview" at the International Association of Media and Communication Research held in Portugal

**Park, Yoonseong**, Entomology, \$1,000; Present "Novel Insecticidal Targets; Neuropeptidergic System in Insect" at the International Congress of Pesticide Chemistry held in Australia

**Potts, Donna L**, English, \$2,000; Present "Nuala Ni Dhomhnaill's 'Great Mother' and Ecofeminism" at the Contemporary Irish Poetry and Environmentalism, Regional and Nation Literature Association conference held in Japan

**Shapkina, Nadezda**, Sociology, Anthropology, and Social Work, \$3,000; Present "Women Helping Women: Maternalism and Power in Anti-trafficking NGO Interventions" and "Students on the Move for Success: Rural-Urban Educational Migration as a Strategy for Upward Mobility in Provincial Russia" at the International Sociologi"

**Smith, C. Michael**, Entomology, \$500; Travel to Southwestern Branch Meeting, Entomological Society of America held in Mexico

**Spencer, Joel Q**, Geology, \$1,200; Present "Luminescence Studies of Age and Thermometric Properties in an Active Earthquake Zone" and "Timing of Latest Pleistocene to Early Holocene Regressive Phase of Lake Bonnieville in the Sevier Subbasin" at the New World Luminescence Dating Workshop

**Taylor, Kay A**, Secondary Education, \$500; Present at the World Congress of Comparative Education Societies held in Turkey

**Underwood, Amy**, Music, \$2,000; Presentation of a Vocal Master Class at Grafenwoehr Army Base and Vocal Recital in Vilsek followed by language and music cultural historical experience in Germany, Prague, and Vienna

**Volok, Dan**, Mathematics, \$1,500; Speak at the International Symposium on Mathematical Theory of Networks and Systems held in Hungary and the International Workshop on Operator Theory and Its Application held in Germany

**Wang, Haiyan**, Statistics, \$2,500; Present "Distribution-free Tests to Detect General Dependence Between a Response Variable and Covariates in the Presence of Possibly a Large Number of Heteroscedastic Treatment Effects"

**Wisely, Samantha**, Biology, \$950; Present "Deforestation and Cattle Ranching Lead to the Expansion of the Reservoir Host to Trypanosomal Disease" at the International Conference on EcoHealth held in the United Kingdom

**Wysin, Gary M**, Physics, \$500; Dynamics of Magnetic Materials in Ontario

**Yuan, Wenqiao**, Biological and Agricultural Engineering, \$2,000; Present "Algae Attachment Techniques and Theories" and "Bio-oils from Biomass Hydrothermal Processing" at the International Conference on Biomass and Energy Technologies held in China

## FACULTY DEVELOPMENT AWARDS

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### Fall 2010

**Asano, Katsura**, Biology, \$2,500; Attend the RNA Society meeting held in Japan

**Brase, Gary**, Psychology, \$1,500; Present research at the 2010 HBES meeting in France

**Burrack, Frederick**, Music, \$750; Present the Culture of Shared Practice: Music Assessment across Cultures and Continents at the International Symposium on Assessment in Music Education in Germany

**Canfield, Jessica**, Landscape Architecture/Regional and Community Planning, \$1,500; Unearthing New Potentials: A Look at Stream Daylighting in the Urban Landscape

**Daniels, Melinda**, Geography, \$1,200; Attend International Symposium on the Interactions between Sediments and Water held in the United Kingdom

**Dow, Douglas**, Art, \$1,200; Present "History and the Hyperreal: "Assassin's Creed II", Simulation, and the Historical Act" at the Modern Simulacra of Renaissance Art Conference held in Switzerland

**Hall, Dean G**, English, \$1,500; Present "Balram is my invisible man: Reading Aravind Adiga's The White Tiger through the lens of Ralph Ellison's Invisible Man" at New Directions in English Studies Conference held in India

**Hubbell, Amy L**, Modern Languages, \$500; Present at the Conseil International d'Etudes Francophones conference in France

**Janette, Michele**, English, \$1,200; Attend the International Conference on New Directions in English Studies: Cross-Cultural Perspectives held in India and an orientation tour and planning session at Bija Vidyapeeth (School of t"

**Jani, Vibhavari**, \$2,200; Present papers at the International Conference on Design Principles and Practices held in Italy

**Matlock, Wendy A**, English, \$1,200; Present "Negotiating Violence and Order in Medieval Robin" at the New Directions in English Studies: Cross-Cultural Perspectives conference held in India

**Neymotin, Florence**, Economics, \$1,000; Present "Giving and the Nature of Communities: An Analysis of How Community Characteristics Affect an Individual's of Engaging in Volunteer Work" at the Royal Economics Society Conference held in England

**Northway, Kara**, English, \$2,000; Present "I wrote to you by my wife: Women in Theatrical Epistolary Networks" at the Cultures of Correspondence in Early Modern Britain Conference held in the United Kingdom

**Poggi-Corradini, Pietro**, Mathematics, \$500; Attend Complex Analysis and Geometry - XX Conference held in Italy

**Potts, Donna L**, English, \$1,200; Present "The ABCDs of Double Colonization in Jhumpa Lahiri's The Namesake" at the New Directions in English Studies: Cross-Cultural Perspectives conference held in India

**Ramm, Alexander G**, Mathematics, \$500; Attend the Chaotic Modeling and Simulation conference in Crete

**Rojkovskaia, Natalia**, Mathematics, \$2,000; Workshop Interaction of Representation Theory with Geometry and Combinatorics held in Germany

**Sandercock, Brett K**, Biology, \$1,300; Attend a Wind Energy and Wildlife Impacts Conference in Norway

**Sanders, Joseph C**, English, \$2,000; Present "Adapting Osamu Tezuka and the Pleasures of Dramatic Irony" at the International Board on Books for Young People in Belgium

**Soibelman, Yan S**, Mathematics, \$1,000; Attend workshop at the Newton Institute at Cambridge University held in the United Kingdom and do joint research with Maxim Kontsevich

**Szoszkiewicz, Robert**, Physics, \$500; Travel to Washington, DC to visit with NSF program officers regarding NSF proposals

**Tanona, Scott**, Philosophy, \$500; Present "Was the correspondence principle a heuristic?" at Heuristics in Physics conference held in Germany

# UNIVERSITY SMALL RESEARCH GRANTS

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## Spring 2010

**Bell, Sam R**, Political Science, \$3,000; Trade and International Military Interventions: Disaggregating Multilateral Interventions for a Dyadic Analysis (with Andrew Long)

**Cai, Gangshu**, Management, \$1,750; Market Expansion Effort in Asymmetric Channels

**Chen, Xuanjuan (Jane)**, Finance, \$1,000; "Crisis, Systemic Risk, and Performance of Financial Risk Insurers"

**Doll, Gayle**, Gerontology, \$2,500; Sexuality in Nursing Homes: The Ombudsman's Perspective

**Hunt, Jon D**, Landscape Architecture/Regional & Community Planning, \$800; Photography and Mixed Media

**Kaczynski, Andrew T**, Kinesiology, \$1,500; Examining Neighborhood Park Influences on Physical Activity

**Kirkpatrick, Kimberly**, Psychology, \$4,000; Differential Rearing Effects on Novelty-Seeking, Impulsive Action, and Impulsive Choice

**Machor, James L**, English, \$1,600, Index "Historical Receptions: Informed Reading and Responses to American Fiction, 1820-1860" book

**McDaniel, Brenda**, Psychology, \$3,000; Physical and Psychological Wellbeing in Kansas Boys and Girls Club Youth and Parents

**McKeeman, Leah**, Secondary Education, \$2,000; Video Vignettes: How Digital Case Studies Impact Learning in Teacher Preparation Programs

**Ragar, Cheryl R**, American Ethnic Studies, \$1,600; Interview students of former Topeka native Aaron Douglas remembered as the "Father of Black Art"

**Tatonetti, Lisa**, English, \$1,600; 2010 NEH Summer Institute: Native Cultures of Western Alaska and the Pacific Northwest Coast

**Wood, Naomi J**, English, \$600; Research Assistance for the Annotated Edition of Oscar Wilde's "The Happy Prince and Other Tales"

**Wood, Spencer D**, Sociology, Anthropology, and Social Work, \$3,500; "Building Harlem by the Mississippi: The Black Cottonmakers' Jubilee, Race, Resistance, and the Roots of Black Nationalism in Memphis, Tennessee, 1936-1972"

**Yu, Han**, English, \$1,200; Investigating State of Intercultural Technical/Professional Communication Education in American Universities

# UNIVERSITY SMALL RESEARCH GRANTS

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## Fall 2010

**Beck, Dylan**, Art, \$6,400; "Sustainable Practice, Sustainable Concept: Moving towards a more sustainable practice with the design and production of a natural gas fired soda kiln with recuperative air modifications to increase fuel efficiency"

**Burnett, Debra L**, School of Family Studies and Human Services, \$3,500; Irony comprehension in children with language impairment

**Craig, Geraldine**, Art, \$500; Hmong National Dress

**Davis, Elizabeth G**, Clinical Sciences, \$1,500; Prevalence of Equine Herpes Virus 5 in Equine Lymphoma Cases

**Dodd, Elizabeth C**, English, \$1,500; Mayan Time: Equinox at Chichen Itza

**Gibson, Huston**, Landscape Architecture/Regional and Community Planning, \$2,000; "Aesthetics Versus Function: The Perceived Value of Ecological Landscapes as Community Amenity Among Residents of Stapleton, Colorado"

**Hiller Connell, Kim Y**, Apparel, Textiles, and Interior Design, \$2,500; Exploration of Eco-Conscious Apparel Acquisition Attitudes and Behaviors

**Loggins, Ginger M**, Communications, \$3,500; Can Newscasts Reduce Prejudice? Determining Television's Impact Up On the Male Ability of Implicit Attitudes.

**McMann, Michael G**, Art, \$2,000; Request for equipment, hardware and software to expand the scope of creative research in image-making, computation, and interactive digital art

**Nazarinia, Rudabeh**, School of Family Studies and Human Services, \$3,000; Expectations and Experiences of First Time African American Mothers

**Ramalho-Ortigao, Marcelo**, Entomology, \$1,000; Salivary expression profile of natural populations of *Phlebotomus papatasi* sand flies in Tunisia and impact on zoonotic cutaneous leishmaniasis transmission

**Spencer, Joel Q**, Geology, \$3,000; Timing of Lake Bonneville Latest Pleistocene Regressive Phase: a high-resolution study of hydrologic evolution in the Sevier Desert, Utah

**Wiersma, Erin**, Art, \$2,000; Innovative Industrial Paint for Mural-Scale Paintings

**Annual  
Proposal/Award Summary  
07/01/10-06/30/11**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<b><u>COLLEGE OF AGRICULTURE</u></b>					
Agricultural Economics	44	\$4,036,617	\$8,925,903	23	\$2,179,162
Agricultural Experiment Station	2	\$118,019	\$678,019	1	\$210,000
Agricultural Research Center-Hays	14	\$866,100	\$2,842,789	12	\$575,798
Agriculture and Natural Resources	0	\$0	\$0	0	\$0
Agronomy	94	\$10,569,610	\$37,989,773	76	\$4,911,685
Animal Sciences and Industry	45	\$9,534,145	\$15,020,743	35	\$2,019,348
Communications	3	\$142,362	\$171,133	0	\$0
Dean of Agriculture and Director of AES	3	\$1,402,478	\$5,667,126	0	\$0
Entomology	50	\$4,493,817	\$13,108,573	34	\$2,369,945
Food Science Institute	5	\$484,022	\$2,536,271	1	\$117,689
Grain Science and Industry	58	\$10,160,437	\$15,081,893	29	\$1,376,246
Horticulture, Forestry and Recreation Resources	42	\$3,055,269	\$10,126,039	15	\$368,293
International Agricultural Programs	1	\$18,623	\$44,899	1	\$3,982
Kansas Industrial Extension Services	0	\$0	\$0	0	\$0
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	14	\$951,352	\$1,742,590	10	\$647,659
Northwest Research Extension Center	10	\$256,982	\$699,654	11	\$410,701
Office of Academic Programs	1	\$74,134	\$74,134	2	\$150,210
Plant Biotechnology Center	0	\$0	\$0	0	\$0
Plant Pathology	79	\$9,639,122	\$26,018,524	56	\$5,451,762
Southeast Agricultural Research Center	1	\$9,360	\$18,721	3	\$49,937
Southwest Research Extension Center	11	\$388,047	\$1,049,222	8	\$398,106
<b>Total Agriculture</b>	<b>477</b>	<b>\$56,200,496</b>	<b>\$141,796,006</b>	<b>317</b>	<b>\$21,240,522</b>
<b><u>COLLEGE OF ARCHITECTURE, PLANNING &amp; DESIGN</u></b>					
Architecture	1	\$15,000	\$15,000	0	\$0
Dean of Architecture, Planning and Design	1	\$14,000	\$14,000	0	\$0
Interior Architecture and Product Design	0	\$0	\$0	0	\$0
Landscape Architecture/Regional & Community Planning	6	\$257,845	\$867,294	3	\$60,008
<b>Total Architecture, Planning and Design</b>	<b>8</b>	<b>\$286,845</b>	<b>\$896,294</b>	<b>3</b>	<b>\$60,008</b>
<b><u>COLLEGE OF ARTS AND SCIENCES</u></b>					
American Ethnic Studies	0	\$0	\$0	0	\$0
Art	0	\$0	\$0	0	\$0
Biochemistry	17	\$3,076,758	\$6,041,501	10	\$1,457,390
Biology	91	\$13,652,321	\$34,528,595	53	\$8,471,140
Chemistry	51	\$5,912,853	\$15,672,339	28	\$3,784,835
Communication Studies, Theatre and Dance	0	\$0	\$0	0	\$0
Community Health Institute	0	\$0	\$0	0	\$0
Dean of Arts and Sciences	2	\$281,351	\$1,329,934	1	\$15,000
Economics	1	\$87,351	\$87,351	0	\$0
English	1	\$3,241	\$3,241	2	\$23,334
Geography	27	\$1,377,973	\$4,264,439	13	\$497,609
Geology	10	\$1,012,125	\$1,849,726	3	\$172,352
History	2	\$198,840	\$359,683	1	\$25,000
Kinesiology	11	\$1,336,536	\$4,416,494	3	\$198,395
Mathematics	17	\$850,415	\$2,146,143	6	\$387,717
Modern Languages	0	\$0	\$0	0	\$0

**Annual  
Proposal/Award Summary  
07/01/10-06/30/11**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
Music	1	\$15,950	\$15,950	1	\$17,850
Philosophy	1	\$197,451	\$802,502	0	\$0
Physics	39	\$11,386,299	\$52,261,444	26	\$9,318,025
Political Science	6	\$506,427	\$526,399	0	\$0
Psychology	15	\$3,003,509	\$7,785,839	4	\$648,914
School of Journalism and Mass Communications	3	\$94,522	\$119,342	1	\$89,924
Sociology, Anthropology and Social Work	10	\$596,867	\$732,317	5	\$333,359
Statistics	9	\$478,416	\$1,581,890	3	\$45,164
Women Studies	1	\$10,739	\$10,739	1	\$10,050
<b>Total Arts and Sciences</b>	<b>315</b>	<b>\$44,079,943</b>	<b>\$134,535,866</b>	<b>161</b>	<b>\$25,496,059</b>

**COLLEGE OF BUSINESS ADMINISTRATION**

Finance	0	\$0	\$0	0	\$0
Accounting	0	\$0	\$0	0	\$0
Dean of Business Administration	1	\$82,000	\$82,000	0	\$0
Management	1	\$2,050,309	\$8,399,984	3	\$38,772
Marketing	0	\$0	\$0	1	\$3,250
<b>Total Business Administration</b>	<b>2</b>	<b>\$2,132,309</b>	<b>\$8,481,984</b>	<b>4</b>	<b>\$42,022</b>

**COLLEGE OF EDUCATION**

Curriculum and Instruction	3	\$407,284	\$942,502	0	\$0
Dean of Education	33	\$6,813,430	\$20,080,852	29	\$3,690,061
Educational Leadership	0	\$0	\$0	1	\$65,885
Elementary Education	0	\$0	\$0	1	\$32,370
Secondary Education	2	\$3,062,306	\$3,203,843	0	\$0
Special Education, Counseling and Student Affairs	0	\$0	\$0	0	\$0
<b>Total Education</b>	<b>38</b>	<b>\$10,283,020</b>	<b>\$24,227,197</b>	<b>31</b>	<b>\$3,788,316</b>

**COLLEGE OF ENGINEERING**

Advanced Manufacturing Institute	7	\$3,608,980	\$4,088,980	23	\$2,680,846
Architectural Engineering and Construction Science	1	\$16,046	\$16,046	0	\$0
Biological and Agricultural Engineering	43	\$8,580,928	\$13,401,798	28	\$1,422,306
Center for Hazardous Substance Research	9	\$4,026,993	\$4,893,126	6	\$290,245
Chemical Engineering	24	\$3,648,425	\$7,160,037	19	\$4,715,020
Civil Engineering	26	\$2,396,052	\$3,255,061	24	\$2,279,751
Computing and Information Sciences	21	\$3,228,258	\$10,514,240	16	\$2,252,037
Dean of Engineering	2	\$166,105	\$421,649	2	\$20,106
Electrical and Computer Engineering	23	\$2,235,121	\$4,404,929	24	\$1,835,404
Engineering Experiment Station	0	\$0	\$0	3	\$54,409
Industrial and Manufacturing Systems Engineering	26	\$2,663,771	\$4,269,013	12	\$863,656
Institute for Environmental Research	7	\$510,773	\$3,681,209	12	\$1,080,237
Kansas Industrial Extension Service	17	\$1,184,792	\$3,325,768	19	\$1,359,975
Mechanical and Nuclear Engineering	42	\$9,507,745	\$24,921,732	25	\$3,376,890



**Annual  
Proposal/Award Summary  
07/01/10-06/30/11**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
National Gas Machinery Laboratory	0	\$0	\$0	2	\$125,667
National Institute for Land Management and Training	0	\$0	\$0	0	\$0
<b>Total Engineering</b>	<b>248</b>	<b>\$41,773,989</b>	<b>\$84,353,586</b>	<b>215</b>	<b>\$22,356,548</b>

**COLLEGE OF HUMAN ECOLOGY**

Apparel, Textiles, and Interior Design	2	\$48,391	\$103,825	2	\$74,499
Communication Studies, Theatre, Dance	0	\$0	\$0	0	\$0
Communications	0	\$0	\$0	0	\$0
Dean of Human Ecology	7	\$1,310,800	\$7,029,125	4	\$320,913
Hospitality Management and Dietetics	4	\$1,707,943	\$1,842,690	4	\$2,282,480
Human Nutrition	20	\$3,077,606	\$5,795,772	14	\$580,735
School of Family Studies and Human Services	23	\$10,898,646	\$15,266,446	17	\$11,186,174
<b>Total Human Ecology</b>	<b>56</b>	<b>\$17,043,387</b>	<b>\$30,037,858</b>	<b>41</b>	<b>\$14,444,801</b>

**COLLEGE OF TECHNOLOGY AND AVIATION**

Academic Services	0	\$0	\$0	0	\$0
Applied Aviation Research Center	6	\$1,462,847	\$1,462,847	4	\$20,389
Arts, Science and Business	0	\$0	\$0	1	\$4,500
Aviation	1	\$116,593	\$116,593	1	\$20,288
Dean of College of Technology and Aviation	1	\$3,411,955	\$3,411,955	0	\$0
Engineering Technology	0	\$0	\$0	0	\$0
Fiscal Affairs	0	\$0	\$0	0	\$0
<b>Total Technology and Aviation</b>	<b>8</b>	<b>\$4,991,395</b>	<b>\$4,991,395</b>	<b>6</b>	<b>\$45,177</b>

**COLLEGE OF VETERINARY MEDICINE**

Anatomy and Physiology	48	\$9,344,821	\$22,597,888	20	\$3,685,459
Clinical Sciences	30	\$3,201,561	\$6,903,175	18	\$1,936,837
Dean of Veterinary Medical Center	2	\$115,000	\$215,000	1	\$177,879
Diagnostic Medicine/Pathobiology	67	\$20,190,558	\$44,152,732	37	\$11,253,396
Veterinary Diagnostic Laboratory	5	\$133,437	\$133,437	5	\$117,642
Veterinary Medical Teaching Hospital	2	\$16,200	\$16,200	3	\$23,800
<b>Total Veterinary Medical Center</b>	<b>154</b>	<b>\$33,001,577</b>	<b>\$74,018,432</b>	<b>84</b>	<b>\$17,195,012</b>

**COOPERATIVE EXTENSION**

**Cooperative Extension - Agriculture**

Agricultural Economics	1	\$31,546	\$31,546	1	\$45,696
Agriculture and Natural Resources	6	\$949,811	\$949,811	3	\$503,211
Agronomy	1	\$22,939	\$22,939	1	\$12,571
Biological and Agricultural Engineering	1	\$25,000	\$25,000	1	\$25,000
Communications	0	\$0	\$0	0	\$0
County Agents-Metropolitan Sector	1	\$3,975	\$3,975	0	\$0
County Agents-Northwest Sector	0	\$0	\$0	0	\$0
Director of Cooperative Extension	3	\$687,977	\$4,894,627	4	\$1,241,468
Four-H Youth Development	3	\$226,500	\$226,500	4	\$228,500
Kansas Forest Service	5	\$624,875	\$624,875	5	\$493,890

**Annual  
Proposal/Award Summary  
07/01/10-06/30/11**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	1	\$17,500	\$17,500	1	\$17,500
Northeast Area Office	3	\$12,046	\$12,046	4	\$12,446
Northeast/Metro Area Office	0	\$0	\$0	0	\$0
Northwest Area Office	5	\$36,728	\$123,920	3	\$40,613
Southeast Area Office	3	\$12,461	\$12,461	4	\$37,776
Southwest Area Office	2	\$8,691	\$8,691	5	\$21,710
<b>Subtotal Cooperative Ext - Agriculture</b>	<b>35</b>	<b>\$2,660,049</b>	<b>\$6,953,891</b>	<b>36</b>	<b>\$2,680,381</b>
<b>Cooperative Extension - Human Ecology</b>					
Family and Consumer Sciences	0	\$0	\$0	0	\$0
Human Nutrition	1	\$2,389,243	\$2,389,243	1	\$3,421,868
Nutrition Program	0	\$0	\$0	0	\$0
<b>Subtotal Cooperative Ext - Human Ecology</b>	<b>1</b>	<b>\$2,389,243</b>	<b>\$2,389,243</b>	<b>1</b>	<b>\$3,421,868</b>
<b>Total Cooperative Extension</b>	<b>36</b>	<b>\$5,049,292</b>	<b>\$9,343,134</b>	<b>37</b>	<b>\$6,102,249</b>
<b><u>OFFICE OF THE PRESIDENT</u></b>					
Auditorium Performances	0	\$0	\$0	1	\$430,286
Beach Art Museum	1	\$2,250	\$2,250	3	\$26,860
Office of the President	0	\$0	\$0	0	\$0
<b>Total Office of the President</b>	<b>1</b>	<b>\$2,250</b>	<b>\$2,250</b>	<b>4</b>	<b>\$457,146</b>
<b><u>OFFICE OF THE PROVOST</u></b>					
Assessment and Program Review	0	\$0	\$0	0	\$0
Center for Engagement and Community Development	4	\$1,056,996	\$3,814,330	6	\$93,415
Dean of Continuing Education	3	\$414,203	\$645,110	1	\$225,000
Dean of Graduate School	3	\$209,728	\$297,852	2	\$183,048
International Programs	4	\$367,400	\$367,400	2	\$101,214
Kansas Center for Rural Initiatives	0	\$0	\$0	0	\$0
Library	1	\$750	\$750	1	\$14,589
Office of Diversity and Dual Career Development	1	\$3,417,182	\$13,999,973	1	\$34,022
Office of the Provost	3	\$600,024	\$716,291	2	\$3,186,621
Regent's Educational Communications Center	0	\$0	\$0	0	\$0
School of Leadership Studies	2	\$22,499	\$22,499	5	\$156,788
Office of Vice President for Communications and Marketir	0	\$0	\$0	1	\$249,000
<b>Total Office of the Provost</b>	<b>21</b>	<b>\$6,088,782</b>	<b>\$19,864,205</b>	<b>21</b>	<b>\$4,243,697</b>
<b><u>OFFICE OF THE VICE PRESIDENT FOR ACADEMIC SERVICES AND TECHNOLOGY</u></b>					
Information Technology Assistance Center	1	\$62,885	\$204,422	0	\$0
<b>Total Academic Services and Technology</b>	<b>1</b>	<b>\$62,885</b>	<b>\$204,422</b>	<b>0</b>	<b>\$0</b>

**Annual  
Proposal/Award Summary  
07/01/10-06/30/11**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<b><u>OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE</u></b>					
Budget Office	0	\$0	\$0	0	\$0
KSU Police Department	4	\$49,940	\$49,940	2	\$7,097
Public Safety	0	\$0	\$0	0	\$0
Vice President for Administration and Finance	0	\$0	\$0	0	\$0
<b>Total Administration and Finance</b>	<b>4</b>	<b>\$49,940</b>	<b>\$49,940</b>	<b>2</b>	<b>\$7,097</b>
<b><u>OFFICE OF THE VICE PRESIDENT FOR RESEARCH</u></b>					
Biosecurity Research Institute	2	\$159,789	\$760,148	2	\$340,842
Comparative Medicine	0	\$0	\$0	0	\$0
K-State Olathe Innovation Campus	0	\$0	\$0	0	\$0
National Agricultural Biosecurity Center	3	\$2,412,278	\$4,609,639	6	\$6,723,298
Office of the Vice President for Research	1	\$36,282	\$59,720	0	\$0
Vice President Biotech Laboratory	0	\$0	\$0	1	\$50,005
Vice President Electronics Design Laboratory	2	\$106,693	\$132,309	2	\$233,893
<b>Total Vice President for Research</b>	<b>8</b>	<b>\$2,715,042</b>	<b>\$5,561,815</b>	<b>11</b>	<b>\$7,348,037</b>
<b><u>OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS</u></b>					
Department of Housing	0	\$0	\$0	0	\$0
Educational and Personal Development	0	\$0	\$0	12	\$1,635,762
KSU Child Development Center, Inc.	0	\$0	\$0	3	\$129,420
Office of Vice President for Student Life	0	\$0	\$0	2	\$69,957
University Counseling Services	2	\$62,000	\$62,000	1	\$37,000
<b>Total Student Life and Dean of Students</b>	<b>2</b>	<b>\$62,000</b>	<b>\$62,000</b>	<b>18</b>	<b>\$1,872,139</b>
<b>University Totals</b>	<b>1,379</b>	<b>\$223,760,267</b>	<b>\$538,426,386</b>	<b>955</b>	<b>\$124,698,829</b>

KANSAS STATE UNIVERSITY  
SUMMARY OF EXTRAMURAL SUPPORT

FY2011

	2007	2008	2009	2010	2011
<b>AGRICULTURE</b>					
Dean of Agriculture & Director of AES	\$19,275	\$19,546	\$0	\$41,518	\$0
Agricultural Economics	\$2,292,428	\$2,529,003	\$1,350,847	\$2,408,959	\$2,179,162
Agronomy	\$7,031,838	\$3,402,577	\$4,882,905	\$6,779,713	\$4,911,685
Animal Sciences & Industry	\$2,988,255	\$2,855,594	\$1,882,156	\$1,327,458	\$2,019,348
Communications	\$177,500	\$40,313	\$0	\$76,436	\$0
Entomology	\$2,848,309	\$2,075,416	\$1,560,774	\$1,898,520	\$2,369,945
Food Science Institute	\$204,273	\$13,351	\$112,657	\$218,472	\$117,889
Grain Science & Industry	\$2,058,140	\$1,408,563	\$3,396,240	\$1,582,167	\$1,376,246
Hort., Forestry & Recreation Resources	\$633,383	\$1,046,426	\$1,082,763	\$514,216	\$368,293
International Agriculture Programs	\$0	\$0	\$0	\$0	\$3,982
KS Ctr for Agri & the Env/KS Water Res. Res. Inst.	\$1,097,481	\$1,175,284	\$1,162,960	\$886,398	\$647,859
Office of Academic Programs	\$0	\$11,938	\$74,134	\$221,702	\$150,210
Plant Pathology	\$5,343,060	\$3,714,770	\$7,607,972	\$6,754,888	\$5,451,782
Agricultural Experiment Station	\$127,079	\$260,755	\$123,192	\$333,010	\$210,000
Northwest Research Extension Center	\$87,403	\$137,915	\$338,258	\$393,408	\$410,701
Agricultural Research Center-Hays	\$312,825	\$343,317	\$379,088	\$608,307	\$575,798
Southeast Agricultural Res. Ctr.	\$48,080	\$41,000	\$52,295	\$41,305	\$49,937
Southwest Research Extension Ctr.	\$246,518	\$248,663	\$459,809	\$436,221	\$398,106
Extension Director	\$89,660	\$101,574	\$104,209	\$424,058	\$1,241,468
Extension Agricultural Economics	\$0	\$0	\$0	\$0	\$45,696
Extension Agronomy	\$0	\$0	\$11,500	\$15,529	\$12,571
Extension Animal Sciences & Industry	\$0	\$0	\$0	\$0	\$0
Extension Biological & Agricultural Engineering	\$0	\$0	\$0	\$45,000	\$25,000
Extension Communications	\$0	\$0	\$0	\$0	\$0
Extension Community Health Institute	\$0	\$0	\$0	\$0	\$0
Extension Entomology	\$0	\$0	\$0	\$0	\$0
Extension Human Nutrition	\$0	\$0	\$0	\$0	\$0
Extension Four-H Youth Development	\$138,000	\$135,300	\$77,280	\$253,000	\$228,500
Extension Grain Science and Industry	\$0	\$0	\$0	\$0	\$0
Extension Hort., Forestry & Rec. Res.	\$0	\$0	\$0	\$0	\$0
Extension KS Ctr. for Agriculture & the Environ.	\$0	\$0	\$0	\$0	\$17,500
Extension Kansas Forest Service	\$2,706,399	\$455,528	\$3,391,477	\$5,914,897	\$493,890
Extension Kansas Water Resource Res. Inst.	\$0	\$13,100	\$15,000	\$0	\$0
Extension Northeast Area Office	\$4,000	\$5,500	\$5,330	\$10,620	\$12,446
Extension Northwest Area Office	\$13,390	\$6,700	\$39,394	\$18,822	\$40,813
Extension Plant Pathology	\$0	\$0	\$0	\$0	\$0
Extension Agriculture and Natural Resources	\$516,425	\$733,789	\$690,210	\$489,315	\$503,211
Extension South Central Area Office	\$0	\$0	\$0	\$0	\$0
Extension Southeast Area Office	\$0	\$0	\$900	\$3,933	\$37,776
Extension Southwest Area Office	\$44,250	\$0	\$77,388	\$45,169	\$21,710
College Totals	<u>\$29,027,971</u>	<u>\$20,775,900</u>	<u>\$28,888,737</u>	<u>\$31,743,036</u>	<u>\$23,920,903</u>
<b>ARCHITECTURE, PLANNING AND DESIGN</b>					
Dean of Architecture, Planning & Design	\$223,078	\$0	\$0	\$0	\$0
Architecture	\$50,000	\$0	\$0	\$0	\$0
Interior Architecture and Product Design	\$0	\$0	\$0	\$5,000	\$0
Landscape Arch/Regional & Comm Plan	\$13,393	\$0	\$0	\$167,343	\$60,008
College Totals	<u>\$286,471</u>	<u>\$0</u>	<u>\$0</u>	<u>\$172,343</u>	<u>\$60,008</u>
<b>ARTS AND SCIENCES</b>					
Dean of Arts & Sciences	\$1,531,556	\$976,305	\$1,688,091	\$0	\$15,000
Biochemistry	\$2,643,318	\$2,347,721	\$1,158,896	\$3,018,734	\$1,457,390
Biology	\$7,252,836	\$10,827,536	\$7,271,896	\$8,171,385	\$6,471,140
Chemistry	\$2,599,183	\$1,793,346	\$2,498,285	\$3,340,693	\$3,784,835
Communication Studies, Theatre & Dance	\$0	\$0	\$10,962	\$59,374	\$0
Community Health Institute	\$194,423	\$545,503	\$24,118	\$0	\$0
Economics	\$0	\$60,961	\$85,000	\$0	\$0
English	\$0	\$3,300	\$0	\$740	\$23,334
Geography	\$316,017	\$296,582	\$283,927	\$185,536	\$497,609
Geology	\$36,500	\$44,250	\$187,153	\$288,128	\$172,352
History	\$1,147,088	\$45,000	\$84,987	\$65,000	\$25,000
Kinesiology	\$26,477	\$178,355	\$132,002	\$317,481	\$198,395
Mathematics	\$320,802	\$225,140	\$278,372	\$1,183,781	\$387,717
Music	\$28,907	\$16,326	\$15,920	\$14,050	\$17,850

	2007	2008	2009	2010	2011
Philosophy	\$0	\$34,000	\$0	\$0	\$0
Physics	\$7,603,567	\$6,521,188	\$7,020,897	\$5,241,624	\$9,318,025
Political Science	\$0	\$85,320	\$0	\$314,246	\$0
Psychology	\$341,712	\$428,399	\$196,473	\$825,142	\$648,914
School of Journalism & Mass Communications	\$128,516	\$656,180	\$38,873	\$0	\$89,924
Sociology, Anthropology, & Social Work	\$250,151	\$394,420	\$647,465	\$760,237	\$333,359
Speech Communication, Theatre and Dance	\$0	\$0	\$0	\$0	\$0
Statistics	\$0	\$31,438	\$0	\$51,633	\$45,184
Woman Studies	\$0	\$0	\$0	\$0	\$10,050
College Totals	\$24,423,053	\$25,501,249	\$21,583,116	\$23,817,786	\$25,496,059

#### BUSINESS ADMINISTRATION

Dean of Business Administration	\$114,516	\$0	\$0	\$0	\$0
Accounting	\$6,723	\$0	\$0	\$0	\$0
Marketing	\$0	\$0	\$0	\$15,463	\$3,250
Management	\$329,500	\$6,750	\$28,213	\$228,749	\$38,772
College Totals	\$450,739	\$6,750	\$28,213	\$244,212	\$42,022

#### EDUCATION

Curriculum and Instruction	\$0	\$0	\$0	\$0	\$0
Dean of Education	\$7,484,140	\$6,394,039	\$5,340,335	\$6,403,595	\$3,690,061
Educational Leadership	\$154,339	\$21,823	\$198,056	\$110,947	\$65,885
Elementary Education	\$0	\$5,000	\$31,870	\$32,370	\$32,370
Secondary Education	\$70,604	\$70,604	\$0	\$30,984	\$0
Special Education, Counseling and Student Affairs	0	\$3,500	\$0	\$0	\$0
College Totals	\$7,709,083	\$6,494,966	\$5,570,261	\$6,577,898	\$3,788,316

#### ENGINEERING

Dean of Engineering	\$1,689,540	\$11,424	\$16,599	\$323,884	\$20,106
Advanced Manufacturing Institute	\$2,089,995	\$1,794,855	\$1,681,912	\$2,141,383	\$2,680,846
Architectural Engg & Construction Sci	\$0	\$0	\$0	\$0	\$0
Biological & Agricultural Engineering	\$3,395,681	\$2,186,599	\$2,846,196	\$2,923,787	\$1,422,306
Center for Hazardous Substance Research	\$420,419	\$965,107	\$685,820	\$1,222,000	\$290,245
Chemical Engineering	\$1,248,991	\$1,247,089	\$2,149,271	\$2,851,943	\$4,715,020
Civil Engineering	\$1,825,080	\$1,519,056	\$2,842,986	\$2,850,820	\$2,279,751
Computing & Information Sciences	\$1,428,208	\$1,870,154	\$961,723	\$3,328,123	\$2,252,037
Electrical & Computer Engineering	\$839,242	\$908,089	\$994,953	\$2,703,700	\$1,835,404
Engineering Experiment Station	\$2,000	\$12,000	\$123,404	\$67,079	\$54,409
Institute for Environmental Research	\$1,816,516	\$1,384,242	\$988,891	\$1,368,029	\$1,080,237
Extension Engineering	\$0	\$0	\$0	\$0	\$0
Industrial & Manufacturing Sys Engg	\$480,353	\$431,706	\$873,950	\$431,774	\$883,656
Kansas Industrial Extension Service	\$820,665	\$924,189	\$4,434,261	\$1,283,777	\$1,359,975
Mechanical and Nuclear Engineering	\$3,155,054	\$2,787,676	\$3,378,903	\$1,886,639	\$3,376,890
National Gas Machinery Laboratory	\$112,400	\$467,783	\$208,012	\$96,110	\$125,867
Natl Institute for Land Mgmt & Training	\$394,300	\$27,000	\$533,708	\$0	\$0
College Totals	\$19,718,444	\$16,536,928	\$22,720,569	\$23,459,046	\$22,356,548

#### HUMAN ECOLOGY

Dean of Human Ecology	\$970,818	\$318,516	\$355,627	\$2,757,068	\$320,913
Apparel, Textiles & Interior Design	\$0	\$8,119	\$40,303	\$0	\$74,499
Human Nutrition	\$1,003,998	\$1,835,539	\$535,505	\$1,040,636	\$580,735
Hospitality Mgmt & Dietetics	\$331,981	\$3,500	\$216,058	\$15,204	\$2,282,480
School of Family Studies & Human Services	\$3,050,854	\$17,840,655	\$18,868,207	\$14,709,030	\$11,188,174
Extension Apparel, Textiles & Interior Design	\$0	\$0	\$0	\$0	\$0
Extension Family & Consumer Sciences	\$0	\$3,343,958	\$3,129,135	\$0	\$0
Extension Human Nutrition	\$0	\$0	\$0	\$3,162,879	\$3,421,868
Extension Nutrition Program	\$0	\$61,035	\$32,078	\$0	\$0
Ext. Family Studies & Human Services	\$3,352,998	\$0	\$0	\$0	\$0
College Totals	\$8,710,649	\$23,209,322	\$21,176,914	\$21,684,617	\$17,868,689

#### TECHNOLOGY AND AVIATION

Dean, College of Technology	\$24,000	\$0	\$0	\$0	\$0
Academic Services	\$0	\$0	\$580	\$0	\$0
Salina Applied Aviation Research Center	\$0	\$50,000	\$498,321	\$2,985,110	\$20,389
Salina Arts, Science and Business	\$0	\$0	\$0	\$8,500	\$4,500
Salina Aviation	\$0	\$315,900	\$0	\$45,690	\$20,288
Engineering Technology	\$500,000	\$8,195	\$0	\$0	\$0
College Totals	\$524,000	\$374,095	\$496,901	\$3,019,300	\$45,177

	2007	2008	2009	2010	2011
<b>VETERINARY MEDICINE</b>					
Dean of Veterinary Medicine	\$94,539	\$2,838,770	\$205,880	\$142,790	\$177,879
Anatomy & Physiology	\$2,708,071	\$5,287,077	\$3,322,473	\$3,494,658	\$3,885,459
Clinical Sciences	\$1,921,910	\$1,452,056	\$1,225,367	\$1,640,051	\$1,936,837
Diagnostic Medicine/Pathobiology	\$1,799,526	\$3,358,103	\$8,778,701	\$10,833,620	\$11,253,396
Veterinary Diagnostic Laboratory	\$0	\$0	\$65,527	\$220,517	\$117,642
Veterinary Medical Teaching Hospital	\$20,700	\$14,000	\$19,800	\$19,000	\$23,800
College Totals	\$6,544,746	\$12,748,007	\$13,617,948	\$16,350,636	\$17,195,012
<b>PRESIDENT</b>					
Beach Art Museum	\$23,014	\$24,088	\$24,997	\$14,208	\$28,880
McCain Auditorium	\$18,014	\$11,088	\$481,045	\$347,358	\$430,286
Office of the President	\$0	\$2,000,000	\$0	\$2,100,000	\$0
Totals	\$41,028	\$2,035,176	\$506,042	\$2,461,566	\$457,146
<b>PROVOST</b>					
Office of the Provost	\$690,341	\$701,632	\$0	\$0	\$3,186,621
Assessment & Program Review	\$0	\$0	\$88,604	\$0	\$0
Center for Engagement, Community Development	\$61,118	\$126,223	\$168,935	\$168,385	\$93,415
Dean of Continuing Education	\$0	\$0	\$0	\$33,995	\$225,000
Dean of the Graduate School	\$0	\$0	\$42,000	\$58,152	\$183,048
International Programs	\$4,324,721	\$39,873	\$250,978	\$246,421	\$101,214
Kansas Center for Rural Initiatives	\$0	\$0	\$0	\$0	\$0
Library	\$298,000	\$35,000	\$10,500	\$46,479	\$14,589
Office of Diversity and Dual Career Dev.	\$0	\$0	\$0	\$31,714	\$34,022
Planning and Analysis	\$0	\$0	\$0	\$0	\$0
Regents Educational Communications Ctr.	\$0	\$0	\$0	\$0	\$0
School of Leadership Studies	\$0	\$0	\$92,645	\$247,954	\$156,788
Vice President for Communications and Marketing	\$0	\$0	\$0	\$0	\$249,000
Totals	\$5,374,180	\$902,728	\$653,662	\$633,100	\$4,243,697
<b>V.P. ADMINISTRATION AND FINANCE</b>					
Vice President for Administration and Finance	\$0	\$0	\$0	\$583,507	\$0
Budget Office	\$0	\$0	\$0	\$11,748,086	\$0
KSU Police Department	\$0	\$1,782	\$8,497	\$4,697	\$7,097
Physical Facilities	\$0	\$0	\$0	\$0	\$0
Totals	\$0	\$1,782	\$8,497	\$12,336,290	\$7,097
<b>V.P. INSTITUTIONAL ADVANCEMENT</b>					
Department of Housing	\$125,522	\$125,522	\$0	\$0	\$0
Educational & Personal Development	\$1,624,227	\$2,331,199	\$0	\$0	\$0
KSU Child Development Center	\$0	\$281,521	\$0	\$0	\$0
Office of Diversity & Dual Career Dev.	\$250,000	\$0	\$0	\$0	\$0
University Counseling Services	\$28,400	\$152,933	\$0	\$0	\$0
Vice President for Institutional Advancement	\$0	\$221,253	\$0	\$0	\$0
Totals	\$2,028,149	\$3,112,428	\$0	\$0	\$0
<b>V. P. ACADEMIC SERVICES &amp; TECHNOLOGY</b>					
Vice President for Academic Serv. & Tech.	\$0	\$0	\$0	\$0	\$0
Dean of Continuing Education	\$0	\$26,702	\$0	\$0	\$0
Regents Educational Communications Ctr.	\$12,900	\$0	\$0	\$0	\$0
Regents Telenet	\$0	\$25,214	\$0	\$0	\$0
Totals	\$12,900	\$51,916	\$0	\$0	\$0
<b>VICE PRESIDENT FOR RESEARCH</b>					
Vice President for Research	\$471,670	\$1,799,737	\$1,647,610	\$67,189	\$0
Vice President for Res. & Dean Grad of Sch.	\$6,200	\$40,500	\$0	\$0	\$0
Biosecurity Research Institute	\$0	\$0	\$1,000	\$0	\$340,842
K-State Olathe Innovation Campus	\$0	\$0	\$0	\$0	\$0
National Agricultural Biosecurity Center	\$8,509,283	\$4,065,000	\$14,652,588	\$2,160,791	\$6,723,298
Biotechnology Laboratory	\$63,559	\$82,618	\$70,948	\$52,037	\$50,005
Electronics Design Lab	\$204,611	\$218,212	\$199,139	\$165,865	\$233,893
Totals	\$9,245,303	\$6,206,066	\$16,571,285	\$2,445,882	\$7,348,037

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
<b>V.P. FOR STUDENT LIFE AND DEAN OF STUDENTS</b>					
Office of Vice President for Student Life	\$0	\$0	\$0	\$84,240	\$69,957
Department of Housing	\$0	\$0	\$200,522	\$0	\$0
Educational & Personal Development	\$0	\$0	\$1,123,191	\$2,542,353	\$1,635,762
KSU Child Development Center	\$0	\$0	\$372,118	\$86,165	\$129,420
Office of Diversity & Dual Career Dev.	\$0	\$0	\$34,238	\$0	\$0
University Counseling Services	\$0	\$0	\$100,463	\$37,400	\$37,000
<b>Totals</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,830,531</b>	<b>\$2,750,158</b>	<b>\$1,872,139</b>
<b>UNIVERSITY TOTALS</b>	<b>\$114,086,716</b>	<b>\$117,967,312</b>	<b>\$133,650,674</b>	<b>\$147,696,867</b>	<b>\$124,698,829</b>