

RESEARCH

— *Kansas State University* —

2013



Office of Research and Sponsored Programs

October 29, 2013

Dear Colleague:

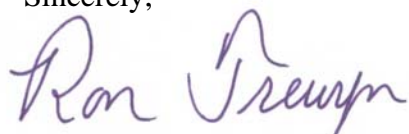
The Office of the Vice President for Research is pleased to provide the attached proposal/award activity report for the period July 1, 2012 - June 30, 2013. These reports are intended to provide you with information regarding faculty efforts to obtain extramural support, along with a summary of their respective successes to date.

As a reminder, you can also review the monthly listing of awards which is available at: <http://www.k-state.edu/research/awards/>. If you have any questions regarding the contents of the attached report, you can contact Paul Lowe at plowe@ksu.edu or Cecilia Scaler at cscaler@ksu.edu or by calling 785-532-6804.

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 2013 (July 1, 2012 – June 30, 2013)

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.

FY13 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 **\$151,343,529**

II. Appropriated

Main Campus State Appropriation \$12,204,884

Experiment Station Programs and
Extension Services

Federal Appropriation* \$ 9,529,992

State Appropriation \$48,557,750

College of Technology and Aviation
State Appropriation \$ 0

Veterinary Medical Center
State Appropriation \$ 29,627

SUBTOTAL **\$ 70,322,253**

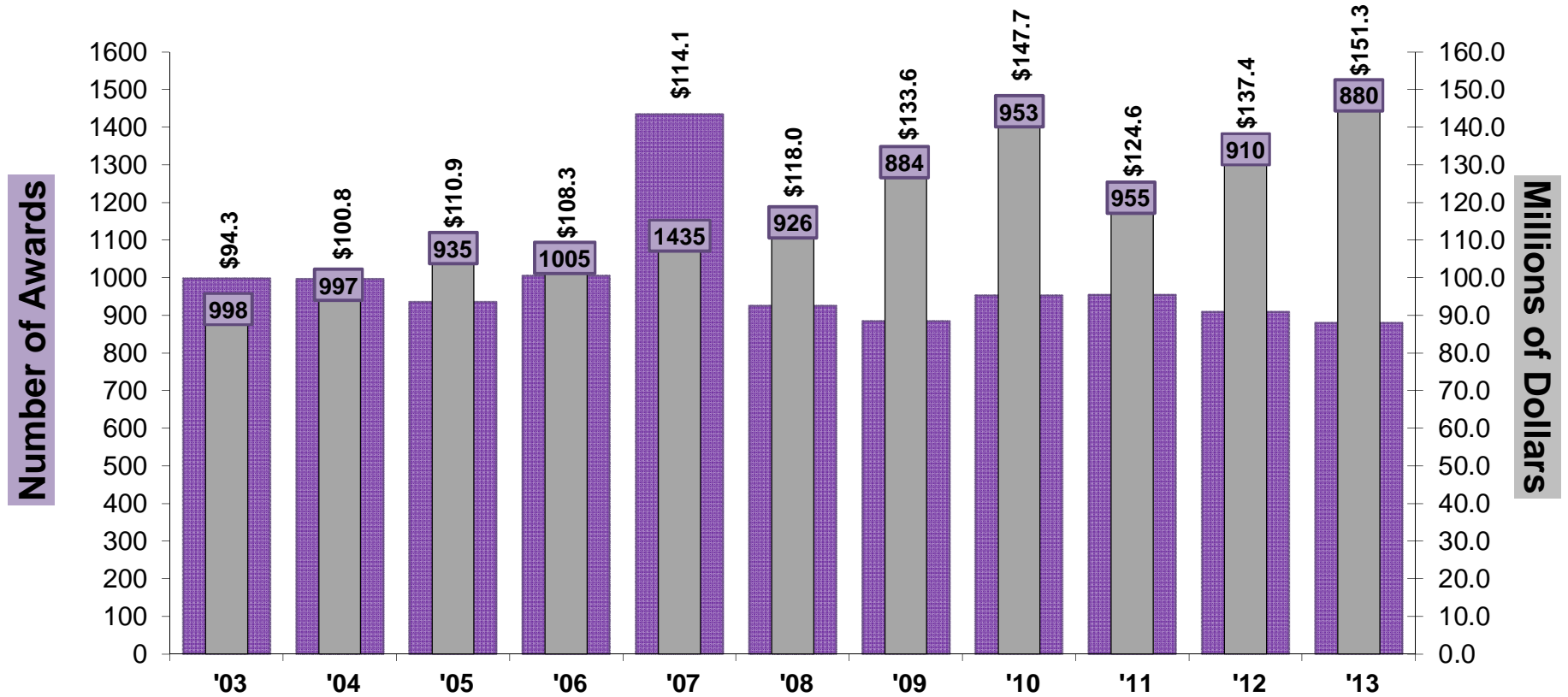
III. Donated** **\$ 38,323,199**

RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL \$259,988,981

**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

College/Office Receiving Awards	Number	Dollar Value
College of Agriculture	392	\$ 38,454,478
College of Architecture, Planning and Design	0	\$ -
College of Arts and Sciences	134	\$ 20,331,206
College of Business Administration	2	\$ 46,416
College of Education	29	\$ 4,951,397
College of Engineering	153	\$ 25,356,493
College of Human Ecology	34	\$ 11,423,074
College of Technology and Aviation	4	\$ 22,276
College of Veterinary Medicine	90	\$ 19,841,954
Office of the President	0	\$ -
Office of the Provost	12	\$ 16,663,925
Vice President for Administration and Finance	1	\$ 2,500
Vice President for Research	17	\$ 12,495,756
Vice President for Student Life and Dean of Students	12	\$ 1,754,054
UNIVERSITY TOTAL	880	\$ 151,343,529

Sources of Awards

Sources	Number	Dollar Value
Area/Local Government	6	\$ 63,333
Department of Agriculture	147	\$ 29,749,587
Department of Defense	25	\$ 6,725,924
Department of Education	16	\$ 3,756,080
Department of Energy	19	\$ 4,608,932
Department of Health and Human Services	63	\$ 10,384,708
Environmental Protection Agency	17	\$ 1,099,154
Foundations	202	\$ 8,858,827
Industry	134	\$ 8,279,455
National Science Foundation	88	\$ 18,308,360
National Aeronautics and Space Administration	13	\$ 1,058,733
Other Federal	93	\$ 30,241,516
State of Kansas	57	\$ 28,208,920
TOTAL	880	\$ 151,343,529

FISCAL YEAR 2013 EXTRAMURAL AWARDS

(July 1, 2012 – June 30, 2013)

COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS

Amanor-Boadu, Vincent R., Dalton, Timothy J., and Featherstone, Allen M., US Agency for International Development, \$48,926, "Pulse Value Chain Initiative- Zambia (PVCIZ)."

Amanor-Boadu, Vincent R., Dalton, Timothy J., Lilja, Nina (International Agricultural Programs), **Ross, Kara**, and **Zereyesus, Yacob**, US Department of Agriculture, \$367,946, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Bergtold, Jason S., Caldas, Marcellus M. (Geography), and **Xia, Tian**, National Science Foundation, \$194,428, "Collaborative Research: Land Change in Brazil's Cerrado: Ethanol and Sugar Cane Expansion at the Farm and Industry Scale."

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., US Department of Agriculture, \$199,000, "Analysis of Farmer Willingness to Produce Oilseeds for Biofuel in the Western US."

Briggeman, Brian C., Multi-Sponsor, \$229,000, "Arthur Capper Cooperative Center."

Dalton, Timothy J., Dhuyvetter, Kevin C., Garrett, Karen A. (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (International Agricultural Programs), **Pagadala, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), 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 (PVCIZ)."

Dalton, Timothy J., Amanor-Boadu, Vincent R., Lilja, Nina (International Agricultural Programs), **Ross, Kara**, and **Zereyesus, Yacob**, US Department of Agriculture, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Dhuyvetter, Kevin C., Dalton, Timothy J., Garrett, Karen A. (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (International Agricultural Programs), **Pagadala, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$19,725, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

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., US Department of Agriculture, \$15,000, "Analyzing Differences in Farm Financial Data: Comparing ARMS with Kansas and Illinois Farm Management Data."

Fox, John A., Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Schroeder, Ted C., Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn, and Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

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, \$7,633, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Ibendahl, Gregory, Cotton, Inc., \$6,000, "Risk Management - Strategies for Controlling Input Costs of Cotton Producers."

Ibendahl, Gregory, US Department of Agriculture, \$75,373, "Support for Agricultural Education Students as Beginning Farmers and Ranchers."

Leatherman, John C., Kansas Department of Health and Environment, \$127,243, "Cottonwood WRAPS Implementation SFY 2013 - 2015."

Leatherman, John C., Kansas Department of Health and Environment, \$130,100, "Milford WRAPS Implementation SFY 2013 - 15."

Leatherman, John C., Kansas Department of Health and Environment, \$104,274, "Upper Neosho Implementation SFY 2013 - 2015."

Leatherman, John C., US Environmental Protection Agency, \$70,000, "Development of Watershed Management Plan for Spring River Watershed and Development of Information for 319 Nonpoint Source Implementation Project in Carthage, Missouri."

Peterson, Jeffrey M., Aistrup, Joseph (Political Science), **Bergtold, Jason S.**, and **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), National Science Foundation, \$85,787, "Farmers' Decisions to Grow Crops for Fuel."

Peterson, Jeffrey M., Pfromm, Peter H. (Chemical Engineering), **Rezac, Mary E.** (Chemical Engineering), and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (ISTAR)."

Ross, Kara, Amanor-Boadu, Vincent R., Dalton, Timothy J., Lilja, Nina (International Agricultural Programs), and **Zereyesus, Yacob**, US Department of Agriculture, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Schroeder, Ted C., Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Fox, John A., Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn**, and **Zurek, Ludek** (Entomology), US Department of Agriculture, \$185,139, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Schurle, Bryan W., Herbel, Kevin L., and **Langemeier, Michael R.**, Kansas Soybean Commission, \$13,500, "Development of Improved Systems for Machinery Data Management and Analysis Data Delivery for Kansas Farmers."

Tonsor, Glynn, Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Fox, John A., Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter,**

David G. (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Schroeder, Ted C.**, **Thomson, Daniel U.** (Clinical Sciences), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Xia, Tian, Bergtold, Jason S., and **Caldas, Marcellus M.** (Geography), National Science Foundation, "Collaborative Research: Land Change in Brazil's Cerrado: Ethanol and Sugar Cane Expansion at the Farm and Industry Scale."

Zereyesus, Yacob, Amanor-Boadu, Vincent R., **Dalton, Timothy J.**, **Lilja, Nina** (International Agricultural Programs), and **Ross, Kara**, US Department of Agriculture, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

AGRICULTURAL EXPERIMENT STATION

Minton, J. Ernest, and **Leslie, John F.** (Plant Pathology), US Department of Agriculture, "Acquisition of Goods and Services 58-5430-2-959."

Minton, J. Ernest, and **Leslie, John F.** (Plant Pathology), US Department of Agriculture, "Acquisition of Goods and Services 58-5430-960."

Minton, J. Ernest, and **Margolies, David C.** (Entomology), US Department of Agriculture, "Acquisition of Goods and Services, 58-5430-2-961."

AGRICULTURAL RESEARCH CENTER-HAYS

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, \$2,290, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Harmoney, Keith R., Multi-Sponsor, \$2,000, "Beef Research."

Harmoney, Keith R., US Department of Energy, \$11,680, "CRP Management for Biomass Feedstock Production."

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

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

Perumal, Ramasamy, and Tesso, Tesfaye (Agronomy), Kansas Bioscience Authority, \$12,500, "Collaborative Research to Develop a Sorghum Doubled Haploid Breeding System."

Perumal, Ramasamy, Aiken, Robert M., and Little, Christopher R., Kansas Grain Sorghum Commission, \$77,000, "Development of Sorghum Germplasm with Enhanced Drought Tolerance and Higher Grain Yield."

Perumal, Ramasamy, Aiken, Robert M. (Northwest Research Extension Center), and **Little, Christopher R.** (Plant Pathology), Kansas Grain Sorghum Commission, \$19,500, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

Perumal, Ramasamy, Pagadala, P. V. Vara (Agronomy), and **Tesso, Tesfaye** (Agronomy), Kansas Grain Sorghum Commission, \$10,400, "Improving Yield Potential of Grain Sorghum through Drought and Heat Tolerance."

Perumal, Ramasamy, Little, Christopher R. (Plant Pathology), and **Tesso, Tesfaye** (Agronomy), Kansas Grain Sorghum Commission, \$7,952, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

Perumal, Ramasamy, US Department of Agriculture, \$10,000, "Enhancement of Cold Tolerance in Sorghums."

Perumal, Ramasamy, and Little, Christopher R. (Plant Pathology), US Department of Agriculture, \$9,750, "Evaluation of Sorghum Minicore Germplasm to Identify New Sources for Cold Tolerance."

Seifers, Dallas L., and Zhang, Guorong, Kansas Wheat Commission, "Development of New Hard Red and Hard White Winter Wheat Varieties with Improved Levels of Disease Resistance for Western Kansas."

Stahlman, Phillip W., and Jugulam, Mithila (Agronomy), Kansas Grain Sorghum Commission, \$2,800, "Evaluation of Palmer Amaranth and Waterhemp Resistances to Multiple Herbicides in Grain Sorghum."

Stahlman, Phillip W., and Jugulam, Mithila (Agronomy), Kansas Soybean Commission, \$22,910, "Risk of Stacked Dicamba and Glyphosate Resistance in Kochia and Best Management Practices."

Stahlman, Phillip W., Monsanto Company, \$10,080, "Service Order 46."

Stahlman, Phillip W., Multi-Sponsor, \$78,125, "Weed Research."

Stahlman, Phillip W., National Sunflower Association, \$12,040, "Glyphosate-resistant Broadleaf Weed Management in Sunflower."

Thompson, Carlyle A., and Martin, Terry J., Multi-Sponsor, \$6,220, "Crop Culture."

Zhang, Guorong, Kansas Wheat Alliance, \$46,400, "Wheat Improvement through Double Haploid Technology."

AGRONOMY

Adee, Eric A., Dumler, Troy (Southwest Area Office), **Nelson, John R., Roozeboom, Kraig L.**, and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Corn Commission, "Irrigation Management of Emerging Drought-Tolerant Corn Hybrids."

Adee, Eric A., Nelson, Randall, and **Roozeboom, Kraig L.**, Kansas Soybean Commission, "Agronomic Maximization of Soybean Yield and Quality."

Adee, Eric A., Nelson, Randall, Ruiz Diaz Suarez, Dorivar A., and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, "Evaluation of Micronutrients for High Yield Soybean Production Using Small Plot and Strip Trial Research."

Adee, Eric A., Little, Christopher R. (Plant Pathology), and **Presley, DeAnn R.**, Kansas Soybean Commission, "Irrigation Regimes and Soil Oxygen Content: Investigating Environmental Parameters Associated with SDS in Kansas."

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

Blocksome, Carolyn E., Devlin, Daniel L. (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), **Lilja, Nina** (International Agricultural Programs), and **Shroyer, James P.**, US Department of Agriculture, "USDA Scientific Exchange Scholar Program: Russian Black Carbon Scholars."

Blocksome, Carolyn E., and **Devlin, Daniel L.**, US Department of the Interior, \$122,392, "Great Plains Fire Exchange Consortium - Outreach Specialist Position."

Blocksome, Carolyn E., and **Devlin, Daniel L.** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, \$10,000, "Kansas Flint Hills Smoke Management Plan."

Campabadal, Carlos, Fowler, Mark (Grain Science and Industry), **Maier, Dirk E.** (Grain Science and Industry), and **O'Neil III, Howard J.** (Grain Science and Industry), CNFA, "CNFA Kazakhstan Baking Seminar."

Ciampitti, Ignacio, Kansas Corn Commission, \$8,133, "Extension and Applied Research Programs for Kansas Corn Production."

Fick, Walter H., Multi-Sponsor, \$17,200, "Range and Pasture Brush and Weed Control."

Fritz, Allan K., Kansas Wheat Commission, \$90,000, "Implementation of Advanced Breeding Technologies."

Fritz, Allan K., and **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$235,000, "Improvement of Hard Winter Wheat for Kansas."

Fritz, Allan K., and **Madl, Ronald L.** (Grain Science and Industry), Kansas Wheat Commission, "Induction of Wheat Antioxidants to Consistent Commercial Levels."

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

Fritz, Allan K., US Department of Agriculture, \$42,633, "Wheat Stem Rust Cooperative Research - Kansas State University."

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."

Heer, William F., **Holman, Johnathon D.** (Southwest Research Extension Center), **Roozeboom, Kraig L.**, and **Stamm, Michael J.**, US Canola Association, "Increasing Extension Activity for Canola on Irrigated Lands in Kansas and Oklahoma."

Hettiarachchi, Ganga M., and **Mengel, David B.**, Great Plains Fertilizer, \$10,221, "Testing Plant Uptake of Phosphorus and Zinc from Different Fertilizer Formulations."

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

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

Jennings, Joshua D., and **Roozeboom, Kraig L.**, Kansas Grain Sorghum Commission, "Sorghum Hybrid and Wheat Variety Traits for Planting Wheat after Sorghum in No-till."

Jugulam, Mithila, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, \$25,200, "Evaluation of Palmer Amaranth and Waterhemp Resistances to Multiple Herbicides in Grain Sorghum."

Jugulam, Mithila, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Soybean Commission, "Risk of Stacked Dicamba and Glyphosate Resistance in Kochia and Best Management Practices."

Jugulam, Mithila, Monsanto Company, \$150,380, "Service Order #43, Weed Resistance."

Jugulam, Mithila, Peterson, Dallas E., and Thompson, Curtis R., Syngenta Crop Protection, LLC, \$103,500, "Understanding the Mechanism of Mesotrione-Resistance in Palmer Amaranth Palmeri)."

Knapp, Mary C., and Pierzynski, Gary M., National Oceanic and Atmosphere Administration, "Weather Data Library Data Sets."

Lingenfelser, Jane E., Multi-Sponsor, \$240,321, "Crop Performance."

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

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

Mengel, David B., and Hettiarachchi, Ganga M., Great Plains Fertilizer, "Testing Plant Uptake of Phosphorus and Zinc from Different Fertilizer Formulations."

Mengel, David B., Kansas Grain Sorghum Commission, \$31,302, "Maximizing Sorghum Yield and Profitability through Efficient N Fertilization."

Mengel, David B., and Ruiz Diaz Suarez, Dorivar A., Kansas Soybean Commission, \$26,602, "Phosphorus, Secondary and Micronutrient Fertilization of Soybeans in Kansas."

Mengel, David B., Koch Agriculture, Inc., \$80,530, "Evaluation of New Nitrification Inhibitor of Anhydrous Application in Corn and Wheat."

Mengel, David B., Koch Agriculture, Inc., \$14,462, "The Use of Agrotain to Reduce Ammonia Volatilization from Surface Applied Area in No-Till Grain Sorghum."

Mengel, David B., and Holman, Johnathon D. (Southwest Research Extension Center), The United Sorghum Checkoff Program Board, \$20,000, "Enhancing Sorghum Nitrogen Use Efficiency through Fertilizer Management."

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."

Nelson, John R., Adee, Eric A., Dumler, Troy (Southwest Area Office), **Roozeboom, Kraig L., and Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Corn Commission, \$11,088, "Irrigation Management of Emerging Drought-Tolerant Corn Hybrids."

Nelson, Nathan O., Adee, Eric A., Maddux, Larry D., Marsh, Brian H., and Pierzynski, Gary M., Multi-Sponsor, \$17,700, "Soil Fertility and Soil Management Investigations."

Nelson, Nathan O., DeRouchey, Joel M. (Animal Sciences and Industry), and **Sweeney, Daniel W.** (Southeast Agricultural Research Center), US Department of Agriculture, \$70,269, "Validate, Improve and Regionalize Phosphorus Indices to Reduce P Loss Across the Heartland Region."

Nelson, Nathan O., Daniels, Melinda (Geography), and **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Department of the Interior, "FY 2011 Kansas Water Resources Research Institute."

Nelson, Randall, Adey, Eric A., and Roozeboom, Kraig L., Kansas Soybean Commission, "Agronomic Maximization of Soybean Yield and Quality."

Nelson, Randall, Adey, Eric A., Ruiz Diaz Suarez, Dorivar A., and Shoup, Douglas E. (Southeast Area Office), Kansas Soybean Commission, "Evaluation of Micronutrients for High Yield Soybean Production Using Small Plot and Strip Trial Research."

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

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

Pagadala, P. V. Vara, Perumal, Ramasamy (Agricultural Research Center-Hays), and **Tesso, Tesfaye,** Kansas Grain Sorghum Commission, \$41,600, "Improving Yield Potential of Grain Sorghum through Drought and Heat Tolerance."

Pagadala, P. V. Vara, Kansas Wheat Alliance, \$37,000, "Exploring Wheat Germplasm for Drought and Heat Tolerance."

Pagadala, P. V. Vara, and Schapaugh Jr, William T., The United Sorghum Checkoff Program Board, \$160,460, "Development of Soybean Lines with Improved Tolerance to Heat and Drought."

Pagadala, P. V. Vara, Tesso, Tesfaye, and Yu, Jianming, United Sorghum Checkoff Program, \$61,250, "Enhancement of Drought and Heat Tolerance in Sorghum."

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** (International Agricultural Programs), **Presley, DeAnn R., Rice, Charles W., and Staggenborg, Scott A.,** US Agency for International Development, \$157,798, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

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Whitworth, Robert "Jeff" J., and **Peterson, Dallas E.** (Agronomy), Syngenta Seeds, Inc., \$10,080, "University Research Services Agreement, Second Amendment."

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."

Zhu, Kun Yan, and **Cloyd, Raymond A.**, American Floral Endowment, "Effect of Pesticide Mixtures in Controlling Arthropod Pests of Greenhouses."

Zurek, Ludek, Multi-Sponsor, \$2,500, "Methods for Control of Livestock Insects."

Zurek, Ludek, Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), and **Tonsor, Glynn** (Agricultural Economics), US Department of Agriculture, \$74,055, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

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., Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, \$740,555, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

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, \$120,026, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

GRAIN SCIENCE AND INDUSTRY

Alavi, Sajid, Chambers IV, Edgar (Human Nutrition), **Lilja, Nina** (International Agricultural Programs), **Lindshield, Brian L.** (Human Nutrition), and **Procter, Sandra B.** (Human Nutrition), US Department of Agriculture, \$2,504,917, "Novel Sorghum Based Fortified Food Blend for Infants and Young Children Nutrition."

Alavi, Sajid, US Department of Agriculture, \$175,704, "Pilot-Scale Studies for Optimization of Fortified Grain Using the Original Ultra Rice Technology Plus Hot Extrusion."

Aldrich, Greg, Ambrose, R. P. Kingsly, and Jones, Cassandra K., Fats and Proteins Research Foundation, Inc., \$45,000, "Evaluation of Techniques used to Extend Shelf-life and Methods for Analysis of Rendered Protein Meals in Pet Foods."

Ambrose, R. P. Kingsly, Bhadriraju, Subramanyam, Channaiah, Lakshmikantha, and Maier, Dirk E., CRC Plant Biosecurity, "Evaluating Chlorine Dioxide and Ozone as Alternative Methods for Controlling Phosphine-resistant Insects in On-farm and Commercial Bulk Storages."

Ambrose, R. P. Kingsly, Bhadriraju, Subramanyam, and Maier, Dirk E., CRC Plant Biosecurity, "Modeling VaporPhos and ProFume Distribution in Bulk Storages to Improve Efficacy Against Insects."

Ambrose, R. P. Kingsly, Aldrich, Greg, and Jones, Cassandra K., Fats and Proteins Research Foundation, Inc., "Evaluation of Techniques used to Extend Shelf-life and Methods for Analysis of Rendered Protein Meals in Pet Foods."

Ambrose, R. P. Kingsly, and Maier, Dirk E., Kepler Weber Industrial S/A, \$95,344, "Development of Simulation Models to Predict Airflow, Grain Flow, and Heat and Mass Transfer for the Newly Developed Grain Dryer by Kepler Weber, Brazil."

Ambrose, R. P. Kingsly, National Grain and Feed Association, \$84,760, "Compiling and Reporting Information on Agricultural Dust Explosions."

Ambrose, R. P. Kingsly, The Andersons, Inc., \$75,000, "Intrinsic Characteristics of Modified DDGS and Development of Effective Handling Strategies."

Ambrose, R. P. Kingsly, Campabadal, Carlos, Maier, Dirk E., McKinney, Brian L., and Miller, Brandi M., US Department of Labor, \$120,000, "Combustible Dust Hazards in Grain Handling Facilities: Preventive Precaution, Awareness Creation."

Bhadriraju, Subramanyam, Ambrose, R. P. Kingsly, Channaiah, Lakshmikantha, and Maier, Dirk E., CRC Plant Biosecurity, \$274,380, "Evaluating Chlorine Dioxide and Ozone as Alternative Methods for Controlling Phosphine-resistant Insects in On-farm and Commercial Bulk Storages."

Bhadriraju, Subramanyam, Ambrose, R. P. Kingsly, and Maier, Dirk E., CRC Plant Biosecurity, "Modeling VaporPhos and ProFume Distribution in Bulk Storages to Improve Efficacy Against Insects."

Bhadriraju, Subramanyam, Multi-Sponsor, \$87,500, "Grain Science."

Bhadriraju, Subramanyam, and Frey, David E., US Department of Agriculture, \$52,803, "Training on Khapra Beetle Control in Grain Industry."

Campabadal, Carlos, and Maier, Dirk E., US Department of Agriculture, "Cochran Program to Bulgaria on Grain Management."

Campabadal, Carlos, Ambrose, R. P. Kingsly, Maier, Dirk E., McKinney, Brian L., and Miller, Brandi M., US Department of Labor, "Combustible Dust Hazards in Grain Handling Facilities: Preventive Precaution, Awareness Creation."

Campabadal, Carlos, Maier, Dirk E., and O'Neil III, Howard J., US Soybean Export Council, Inc., "Promotion of US Feed Tech & Soy Products to China."

Channaiah, Lakshmikantha, Ambrose, R. P. Kingsly, Bhadriraju, Subramanyam, and Maier, Dirk E., CRC Plant Biosecurity, "Evaluating Chlorine Dioxide and Ozone as Alternative Methods for Controlling Phosphine-resistant Insects in On-farm and Commercial Bulk Storages."

Dogan, Hulya, Kansas State University Foundation, \$35,000, "Grain Science & Industry Ross Professorship."

Fowler, Mark, Campabadal, Carlos (Agronomy), **Maier, Dirk E.**, and **O'Neil III, Howard J.**, CNFA, "CNFA Kazakhstan Baking Seminar."

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, Campabadal, Carlos, 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, Maier, Dirk E., and **O'Neil III, Howard J.**, Kansas Wheat Commission, "Market Development Grant - International Grains Program Support Project."

Fowler, Mark, and **Maichel, Eric W.**, US Agency for International Development, "Kazakhstan Business Connections Program - Livestock Study Tour."

Frey, David E., and **Bhadriraju, Subramanyam**, US Department of Agriculture, "Training on Khapra Beetle Control in Grain Industry."

Jones, Cassandra K., Aldrich, Greg, and Ambrose, R. P. Kingsly, Fats and Proteins Research Foundation, Inc., "Evaluation of Techniques used to Extend Shelf-life and Methods for Analysis of Rendered Protein Meals in Pet Foods."

Jones, Cassandra K., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Evaluating Moderate to Severe Feed Processes in Light of Increasing Use of Wheat in Swine Diets."

Jones, Cassandra K., and Maier, Dirk E., US Department of Health and Human Services, \$217,470, "Personnel Training for Food Safety in Bulk Grain Based Product Processing and Handling."

Madl, Ronald L., Shi, Yong Cheng, and Vadlani, Praveen V., Kansas Bioscience Authority, \$453,535, "Sustainable and Technically Advanced Integrated Biobased and Bioenergy Products."

Madl, Ronald L., Kansas Soybean Commission, \$48,395, "Biodiesel Demonstration-Scale Facility to Support Educational/Outreach Programs at K-State and KU."

Madl, Ronald L., and Fritz, Allan K. (Agronomy), Kansas Wheat Commission, \$38,000, "Induction of Wheat Antioxidants to Consistent Commercial Levels."

Maichel, Eric W., and Fowler, Mark, US Agency for International Development, \$11,592, "Kazakhstan Business Connections Program - Livestock Study Tour."

Maier, Dirk E., Campabadal, Carlos (Agronomy), **Fowler, Mark**, and **O'Neil III, Howard J.**, CNFA, \$12,360, "CNFA Kazakhstan Baking Seminar."

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

Maier, Dirk E., Ambrose, R. P. Kingsly, Bhadriraju, Subramanyam, and Channaiah, Lakshmikantha, CRC Plant Biosecurity, "Evaluating Chlorine Dioxide and Ozone as Alternative Methods for Controlling Phosphine-resistant Insects in On-farm and Commercial Bulk Storages."

Maier, Dirk E., Ambrose, R. P. Kingsly, and Bhadriraju, Subramanyam, CRC Plant Biosecurity, \$273,360, "Modeling VaporPhos and ProFume Distribution in Bulk Storages to Improve Efficacy Against Insects."

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., Campabadal, Carlos, 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, \$100,000, "Market Development Grant - International Grains Program."

Maier, Dirk E., Kansas State University Foundation, \$50,000, "Grain Science & Industry NAMA Instructor of Milling."

Maier, Dirk E., Kansas State University Foundation, \$74,000, "Grain Science & Industry, Bakers National Education Fellowship."

Maier, Dirk E., Kansas State University Foundation, \$45,000, "Walker Fellowship - GRA Funding."

Maier, Dirk E., Fowler, Mark, and O'Neil III, Howard J., Kansas Wheat Commission, \$100,000, "Market Development Grant - International Grains Program Support Project."

Maier, Dirk E., and Ambrose, R. P. Kingsly, Kepler Weber Industrial S/A, \$95,344, "Development of Simulation Models to Predict Airflow, Grain Flow, and Heat and Mass Transfer for the Newly Developed Grain Dryer by Kepler Weber, Brazil."

Maier, Dirk E., US Department of Agriculture, \$2,365, "Cochran Program for India on Food Safety Standards and Regulations."

Maier, Dirk E., US Department of Agriculture, \$34,345, "Cochran Program for South Africa Soy Processing and Utilization."

Maier, Dirk E., and Campabadal, Carlos, US Department of Agriculture, \$29,422, "Cochran Program to Bulgaria on Grain Management."

Maier, Dirk E., O'Neil III, Howard J., and Trick, Harold N., US Department of Agriculture, \$26,603, "Grain Purchasing - Venezuela."

Maier, Dirk E., Fowler, Mark, and Frey, David E., US Department of Agriculture, \$48,305, "Iraq Cochran Fellowship Program, Crop Residue Management."

Maier, Dirk E., and O'Neil III, Howard J., US Department of Agriculture, \$20,000, "U.S. - South America Ocean Grain Freight Spreads."

Maier, Dirk E., and Jones, Cassandra K., US Department of Health and Human Services, "Personnel Training for Food Safety in Bulk Grain Based Product Processing and Handling."

Maier, Dirk E., Ambrose, R. P. Kingsly, Campabadal, Carlos, McKinney, Brian L., and Miller, Brandi M., US Department of Labor, "Combustible Dust Hazards in Grain Handling Facilities: Preventive Precaution, Awareness Creation."

Maier, Dirk E., US Department of Labor, \$15,000, "Grain Safety Education and Training."

Maier, Dirk E., Campabadal, Carlos, and O'Neil III, Howard J., US Soybean Export Council, Inc., \$21,600, "Promotion of US Feed Tech & Soy Products to China."

Maier, Dirk E., Campabadal, Carlos, Fowler, Mark, and O'Neil III, Howard J., US Soybean Export Council, Inc., \$43,680, "Risk Management Cons M11GX15108: AM: Industry Relations."

McKinney, Brian L., Ambrose, R. P. Kingsly, Campabadal, Carlos, Maier, Dirk E., and Miller, Brandi M., US Department of Labor, "Combustible Dust Hazards in Grain Handling Facilities: Preventive Precaution, Awareness Creation."

Miller, Brandi M., Ambrose, R. P. Kingsly, Campabadal, Carlos, Maier, Dirk E., and McKinney, Brian L., US Department of Labor, "Combustible Dust Hazards in Grain Handling Facilities: Preventive Precaution, Awareness Creation."

Miller, Rebecca, Kansas Wheat Alliance, \$10,000, "Quality Evaluation of Wheat to Molecular Marker Identification."

Miller, Rebecca, Kansas Wheat Commission, \$120,000, "Kansas Wheat Quality Laboratory: Quality Evaluation from KAES Wheat Breeding Programs and Protein/Hardness Screening of Early Progeny Wheat."

Miller, Rebecca, Kansas Wheat Commission, \$2,500, "Preferred Hard Winter Wheat Varieties for Kansas 2013: Flour Tortilla Quality Rankings."

Miller, Rebecca, Kansas Wheat Commission, \$2,500, "Preferred Hard Winter Wheat Varieties for Kansas: Milling & Bread Baking Quality Rankings."

O'Neil III, Howard J., Campabadal, Carlos (Agronomy), **Fowler, Mark**, and **Maier, Dirk E.**, CNFA, "CNFA Kazakhstan Baking Seminar."

O'Neil III, Howard J., Campabadal, Carlos, 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., Fowler, Mark, and Maier, Dirk E., Kansas Wheat Commission, "Market Development Grant - International Grains Program Support Project."

O'Neil III, Howard J., Maier, Dirk E., and Trick, Harold N., US Department of Agriculture, "Grain Purchasing - Venezuela."

O'Neil III, Howard J., and Maier, Dirk E., US Department of Agriculture, "U.S. - South America Ocean Grain Freight Spreads."

O'Neil III, Howard J., Campabadal, Carlos, and Maier, Dirk E., US Soybean Export Council, Inc., "Promotion of US Feed Tech & Soy Products to China."

Shi, Yong Cheng, Ingredion Incorporated, \$293,040, "Understanding and Developing Thermally Inhibited Waxy Wheat and Waxy Sorghum Flours."

Shi, Yong Cheng, Madl, Ronald L., and Vadlani, Praveen V., Kansas Bioscience Authority, "Sustainable and Technically Advanced Integrated Biobased and Bioenergy Products."

Shi, Yong Cheng, Kansas Grain Sorghum Commission, \$23,333, "Developing Sorghum Flours with Increased Resistant Starch Content for Health Benefits."

Sun, X. Susan, Henkel Corporation, \$95,000, "Plant Oil Based Resin for Natural Based Press Sensitive Adhesives and Flexible Coatings."

Sun, X. Susan, Hill's Pet Nutrition, Inc., \$22,600, "Services Agreement."

Sun, X. Susan, and Wang, Donghai (Biological and Agricultural Engineering), Kansas Soybean Commission, \$44,710, "Optimization of Dihydroxylized Soybean Oil (DSO) Derivatives for Pressure Sensitive Adhesives."

Sun, X. Susan, Boguski, Terrie K. (Center for Hazardous Substance Research), **Chang, Shing I.** (Industrial and Manufacturing Systems Engineering), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Agriculture, \$3,809,199, "Enhancing the Economic Viability of Camelina as a Bio-Feedstock: Optimization and Demonstration of the Production System and Bioproduct Development."

Vadlani, Praveen V., Madl, Ronald L., and Shi, Yong Cheng, Kansas Bioscience Authority, "Sustainable and Technically Advanced Integrated Biobased and Bioenergy Products."

Vadlani, Praveen V., Kansas State University Foundation, \$45,000, "Grain Science & Industry Lortscher Professorship."

Vadlani, Praveen V., MeadWestvaco Corporation - North Carolina, \$11,919, "Matching Funds for Consortium for Plant Biotechnology Research Project."

Vadlani, Praveen V., US Department of Agriculture, \$182,471, "Lignocellulosic Biomass Conversion to Infrastructure Compatible Fuel, Products and Power."

Vadlani, Praveen V., US Department of Energy, \$40,000, "Paper Mill Waste Bioconversion to High-Value Products."

HORTICULTURE, FORESTRY AND RECREATION RESOURCES

Barden, Charles J., and Shoemaker, Candice A., US Department of Agriculture, \$59,699, "Food Deserts, Edible Landscapes, and Healthier Choices for Native People of Kansas."

Barden, Charles J., and DeRouchey, Joel M. (Animal Sciences and Industry), US Department of Agriculture, \$20, "Heartland Regional Water Coordination Initiative."

Boyer, Cheryl R., Miller, Frannie L. (Entomology), and **Rivard, Cary L.**, Kansas Health Foundation, \$100,000, "Kansas Neighborhood Gardens: Growing New Roots for Healthy Communities."

Boyer, Cheryl R., US Department of Agriculture, \$43,860, "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., Kansas Turfgrass Foundation, \$3,000, "Nitrous Oxide Emission and Carbon Sequestration in Turfgrass: Effects of Irrigation and N Fertilization (Match for Proposal # 28575)."

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

Bremer, Dale J., and **Fry, Jack D.**, US Golf Association, Inc., \$28,000 (includes \$3,000 from KS Turfgrass Foundation), "Nitrous Oxide Emissions and Carbon Sequestration in Turfgrass: Effects of Irrigation and N Fertilization."

Fry, Jack D., Bremer, Dale J., Griffin, Jason, and **Keeley, Steven J.**, Multi-Sponsor, \$74,500, "Turfgrass Investigations."

Fry, Jack D., and **Kennelly, Megan** (Plant Pathology), National Turfgrass Evaluation Program, Inc., \$500, "2012 National Tall Fescue Test Ancillary Trial-Brown Patch Tolerance (TF-12-16)."

Fry, Jack D., National Turfgrass Evaluation Program, Inc., \$600, "Turfgrass Testing - Kentucky Bluegrass."

Fry, Jack D., National Turfgrass Federation, \$2,000, "Turfgrass Testing."

Fry, Jack D., and **Kennelly, Megan** (Plant Pathology), US Golf Association, Inc., \$7,482, "Development of Fine-Textured, Large Patch-Resistant Zoysiagrass Cultivars with Enhanced Cold Hardiness for the Transition Zone."

Fry, Jack D., and **Bremer, Dale J.**, US Golf Association, Inc., "Nitrous Oxide Emissions and Carbon Sequestration in Turfgrass: Effects of Irrigation and N Fertilization."

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."

Griffin, Jason, Janke, Rhonda R., Kennelly, Megan (Plant Pathology), **Presley, DeAnn R.** (Agronomy), **Rivard, Cary L.,** and **Tomlinson, Peter J.** (Agronomy), US Department of Agriculture, "Development and Adoption of No-Till and Minimum Tillage Vegetable Production Systems in the Midwest."

Janke, Rhonda R., Griffin, Jason, Kennelly, Megan (Plant Pathology), **Presley, DeAnn R.** (Agronomy), **Rivard, Cary L.,** and **Tomlinson, Peter J.** (Agronomy), US Department of Agriculture, "Development and Adoption of No-Till and Minimum Tillage Vegetable Production Systems in the Midwest."

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

Miller, Chad T., and **Williams, Kimberly A.,** American Floral Endowment, "Leveraging FFA Career Development Events in Floriculture as a Student Recruitment Tool."

Park, Sunghun, HI Green System, \$67,623, "Metabolic Engineering of Health-Promoting Phytochemicals in Tomato."

Park, Sunghun, Bockus, William W. (Plant Pathology), **DeWolf, Erick D.** (Plant Pathology), **Stack, James P.** (Plant Pathology), **Trick, Harold N.** (Plant Pathology), and **Valent, Barbara S.** (Plant Pathology), US Department of Agriculture, \$11,000, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

Reid, William R., University of Missouri, \$9,374, "Missouri Pecan Growers."

Rivard, Cary L., Garrett, Karen A. (Plant Pathology), **Jumpponen, Ari M.** (Biology), and **Kennelly, Megan** (Plant Pathology), Ceres, Inc., \$14,995, "New Rootstock Systems for Disease Management and Increased Productivity in Organic Tomato: Understanding Effects on the Rhizobiome."

Rivard, Cary L., Boyer, Cheryl R., and **Miller, Frannie L.** (Entomology), Kansas Health Foundation, "Kansas Neighborhood Gardens: Growing New Roots for Healthy Communities."

Rivard, Cary L., Griffin, Jason, Janke, Rhonda R., Kennelly, Megan (Plant Pathology), **Presley, DeAnn R.** (Agronomy), and **Tomlinson, Peter J.** (Agronomy), US Department of Agriculture, \$154,897, "Development and Adoption of No-Till and Minimum Tillage Vegetable Production Systems in the Midwest."

Shoemaker, Candice A., and **Barden, Charles J.**, US Department of Agriculture, "Food Deserts, Edible Landscapes, and Healthier Choices for Native People of Kansas."

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., and **Miller, Chad T.**, American Floral Endowment, \$1,500, "Leveraging FFA Career Development Events in Floriculture as a Student Recruitment Tool."

Williams, Kimberly A., Gloeckner Foundation, Inc. (Fred C.), \$2,700, "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, \$4,250, "Floriculture Research."

INTERNATIONAL AGRICULTURAL PROGRAMS

Kaus, Jodi L., US Department of Education, \$22,000, "College Access Challenge Grant (CAGG) Program."

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), 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."

Lilja, Nina, **Amanor-Boadu, Vincent R.** (Agricultural Economics), **Dalton, Timothy J.** (Agricultural Economics), **Ross, Kara** (Agricultural Economics), and **Zereyesus, Yacob** (Agricultural Economics), US Department of Agriculture, \$27,695, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Lilja, Nina, **Alavi, Sajid** (Grain Science and Industry), **Chambers IV, Edgar** (Human Nutrition), **Lindshield, Brian L.** (Human Nutrition), and **Procter, Sandra B.** (Human Nutrition), US Department of Agriculture, \$404,019, "Novel Sorghum Based Fortified Food Blend for Infants and Young Children Nutrition."

Lilja, Nina, Blocksome, Carolyn E. (Agronomy), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Shroyer, James P.** (Agronomy), US Department of Agriculture, "USDA Scientific Exchange Scholar Program: Russian Black Carbon Scholars."

KS CTR FOR AG RSRCES & THE ENV / KS WATER RSRCE RSRCH INST

Devlin, Daniel L., City of Hays, KS, \$9,000, "Storm Water Educational Outreach Efforts."

Devlin, Daniel L., Kansas Department of Health and Environment, \$156,184 (includes \$32,700 from Cooperators), "Big Creek, Middle Smoky River Watersheds WRAPS (Kanopolis Reservoir) Implementation - Years 4-6."

Devlin, Daniel L., Kansas Department of Health and Environment, \$8,478, "Kanopolis Reservoir - Big Creek Middle Smoky Hill River Watersheds WRAPS Implementation."

Devlin, Daniel L., Kansas Department of Health and Environment, \$86,040 (includes \$26,640 from Cooperator Support), "KS WRAPS: Watershed Specialist Northeast KS SFY12."

Devlin, Daniel L., US Department of Agriculture, \$303,434, "Improving Water Productivity and New Water Management Technologies to Sustain Rural Economies - KSU."

Devlin, Daniel L., Middendorf, Gerad D. (Sociology, Anthropology, and Social Work), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), **Shoup, Douglas E.** (Southeast Area Office), **Shroyer, James P.** (Agronomy), **Swamy, Aavudai Anandhi** (Agronomy), **Tomlinson, Peter J.** (Agronomy), and **Waggoner, Justin** (Southwest Area Office), US Department of Agriculture, "Resilience and Vulnerability of Beef Cattle Production in the Southern Great Plains under Changing Climate, Land Use and Markets."

Devlin, Daniel L., Blocksome, Carolyn E. (Agronomy), **Lilja, Nina** (International Agricultural Programs), and **Shroyer, James P.** (Agronomy), US Department of Agriculture, \$18,500, "USDA Scientific Exchange Scholar Program: Russian Black Carbon Scholars."

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, \$22,135, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Devlin, Daniel L., Daniels, Melinda (Geography), and **Nelson, Nathan O.** (Agronomy), US Department of the Interior, \$55,525, "FY 2011 Kansas Water Resources Research Institute."

Devlin, Daniel L., and Blocksome, Carolyn E. (Agronomy), US Environmental Protection Agency, "Kansas Flint Hills Smoke Management Plan."

Devlin, Daniel L., US Environmental Protection Agency, \$138,264, "KS WRAPS -- Little Arkansas WRAPS Implementation Project SFY 12."

Devlin, Daniel L., US Environmental Protection Agency, \$9,960 (includes \$9,960 from Cooperator Support), "KS WRAPS KSU Watershed Specialist Southeast KS and Flinthills Watersheds SPY12."

Devlin, Daniel L., US Environmental Protection Agency, \$53,689, "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

Leatherman, John C., Kansas Department of Health and Environment, \$14,138, "Cottonwood WRAPS Implementation SFY 2013 - 2015."

Leatherman, John C., Kansas Department of Health and Environment, \$11,586, "Upper Neosho Implementation SFY 2013 - 2015."

NORTHWEST RESEARCH EXTENSION CENTER

Aiken, Robert M., Little, Christopher R. (Plant Pathology), and **Perumal, Ramasamy** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, \$10,500, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

Aiken, Robert M., Monsanto Company, \$5,500, "Service Order 49."

Aiken, Robert M., Monsanto Company, \$15,500, "Service Order 50."

Aiken, Robert M., Monsanto Company, \$40,320, "Service Order 51."

Aiken, Robert M., Monsanto Company, \$10,000, "Service Order 54."

Aiken, Robert M., Multi-Sponsor, \$50,940, "Sunflower Investigations."

Aiken, Robert M., National Sunflower Association, \$8,750, "Evaluation of Sunflower for Resistance to Seed- and Stem-infesting Insect Pests in the Great 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, \$4,000, "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 Rsrcs & 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, \$21,372, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Coyne, Patrick J., Multi-Sponsor, \$24,900, "Sunflower Performance Testing Program."

Lamm, Freddie R., O'Brien, Daniel M. (Northwest Area Office), and **Rogers, Danny H.** (Biological and Agricultural Engineering), Kansas Corn Commission, \$18,000, "Irrigated Corn Yield in Producer's Fields as Affected by Management and Location."

Lamm, Freddie R., and O'Brien, Daniel M. (Northwest Area Office), Kansas Corn Commission, \$6,000, "Yield of Two Hybrid Maturities as Affected by Management Allowed Depletion Level."

Lamm, Freddie R., Aiken, Robert M., and O'Brien, Daniel M. (Northwest Area Office), National Sunflower Association, \$1,641, "Managing Deficit Sprinkler Irrigation for Sunflower Production."

Lamm, Freddie R., Syngenta Crop Protection, LLC, \$170,000, "Research and Materials Transfer Agreement."

Lamm, Freddie R., Aiken, Robert M., Blanco, Humberto (Agricultural Research Center-Hays), **Devlin, Daniel L.** (Ks Ctr for Ag Rsrcs & 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, \$80,309, "FFA Foundation Executive Director."

Kane, Mary R., US Department of Education, \$70,428, "FFA-YF/YFW Organization."

PLANT BIOTECHNOLOGY CENTER

DeWolf, Erick D., US Department of Agriculture, \$72,000, "A Predictive Model to Increase Adoption of IPM of a Mite-Virus Disease Complex in Wheat."

PLANT PATHOLOGY

Akhunov, Eduard D., and **Gill, Bikram S.**, Kansas Wheat Commission, \$60,000, "Targeted Analysis of Allelic Variation of the Wheat Chromosome 3A for Mapping Agronomically Important Genes."

Akhunov, Eduard D., and **Pagadala, P. V. Vara** (Agronomy), US Department of Agriculture, \$232,516, "Improving Barley and Wheat Germplasm for Changing Environments."

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

Bockus, William W., and **DeWolf, Erick D.**, Kansas Crop Improvement Association, "Evaluating the Role of Genetic Resistance and Seed Treatment Insecticide in the Management of Barley Yellow Dwarf Virus for New Wheat Varieties."

Bockus, William W., Kansas Wheat Commission, \$30,000, "Disease Phenotyping: Determining the Reaction of Wheat Lines to Important Diseases."

Bockus, William W., Multi-Sponsor, \$1,000, "Seed Treatment."

Bockus, William W., US Department of Agriculture, \$37,270, "Development of Scab Resistant Wheat Cultivars for Kansas."

Bockus, William W., **DeWolf, Erick D.**, **Park, Sunghun** (Horticulture, Forestry and Recreation Resources), **Stack, James P.**, **Trick, Harold N.**, and **Valent, Barbara S.**, US Department of Agriculture, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

DeWolf, Erick D., and **Bockus, William W.**, Kansas Crop Improvement Association, \$10,000, "Evaluating the Role of Genetic Resistance and Seed Treatment Insecticide in the Management of Barley Yellow Dwarf Virus for New Wheat Varieties."

DeWolf, Erick D., Kansas Wheat Alliance, \$10,000, "Evaluating the Role of Genetic Resistance and Seed Treatment Insecticide in the Management of Barley Yellow Dwarf Virus."

DeWolf, Erick D., and **Bockus, William W.**, Kansas Wheat Commission, \$30,000, "Development of New Tools for Wheat Disease Management in Kansas: Decision Models for Fungicide Applications."

DeWolf, Erick D., US Department of Agriculture, \$71,826, "Development and Deployment of Prediction Models for Fusarium Head Blight."

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., Bockus, William W., Park, Sunghun (Horticulture, Forestry and Recreation Resources), **Stack, James P., Trick, Harold N.,** and **Valent, Barbara S.**, US Department of Agriculture, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

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

Friebe, Bernd, and **Gill, Bikram S.**, US Department of Agriculture, "Alien Chromosome Engineering and the Deployment of Novel Sources of Resistance to Fusarium Head Blight in Wheat."

Garrett, Karen A., Jumpponen, Ari M. (Biology), **Kennelly, Megan,** and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), Ceres, Inc., \$29,991, "New Rootstock Systems for Disease Management and Increased Productivity in Organic Tomato: Understanding Effects on the Rhizobiome."

Garrett, Karen A., Phillips, Thomas W. (Entomology), and **Scoglio, Caterina M.** (Electrical and Computer Engineering), CRC Plant Biosecurity, \$45,186, "Ecology of Sitophilus and Cryptolestes Species."

Garrett, Karen A., Jumpponen, Ari M. (Biology), and **Kennelly, Megan,** The Ceres Trust, \$37,743, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

Garrett, Karen A., and **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), The CGIAR Fund, \$75,600, "A Framework for Evaluating EWS/DSS for Pests and Diseases."

Garrett, Karen A., Dalton, Timothy J. (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (International Agricultural Programs), **Pagadala, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Agency for International

Development, \$9,862, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

Gill, Bikram S., Kansas Bioscience Authority, \$250,000, "Trait Discovery Pipeline for Wheat."

Gill, Bikram S., Kansas Bioscience Authority, \$50,000, "Wheat with Altered Starch Properties for Specific end Uses."

Gill, Bikram S., Kansas Wheat Alliance, \$10,000, "Wheat Genetic and Genomic Resources Center and Its Contributions to the Kansas Wheat Industry."

Gill, Bikram S., and **Akhunov, Eduard D.**, Kansas Wheat Commission, "Targeted Analysis of Allelic Variation of the Wheat Chromosome 3A for Mapping Agronomically Important Genes."

Gill, Bikram S., Kansas Wheat Commission, \$100,000, "Wheat Genetic & Genomic Resources Center and Its Contributions to the Kansas Wheat Industry."

Gill, Bikram S., King Abdulaziz University, \$250,000, "Genomics of Grain Yield in Cereals."

Gill, Bikram S., National Science Foundation, \$15,940, "Wheat Genetics Resource Center: A Public-Private Consortium to Mobilize Genetic Diversity and Meet Food Security Needs."

Gill, Bikram S., and **Friebe, Bernd**, US Department of Agriculture, \$48,938, "Alien Chromosome Engineering and the Deployment of Novel Sources of Resistance to Fusarium Head Blight in Wheat."

Jardine, Douglas J., Multi-Sponsor, \$4,550, "Soybean Foliar Fungicide and Seed Treatment Tests."

Jardine, Douglas J., US Department of Agriculture, \$15,111, "Integrated Management of Oomycete Diseases of Soybean and other Crop Plants."

Kennelly, Megan, Garrett, Karen A., Jumpponen, Ari M. (Biology), and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), Ceres, Inc., "New Rootstock Systems for Disease Management and Increased Productivity in Organic Tomato: Understanding Effects on the Rhizobiome."

Kennelly, Megan, Multi-Sponsor, \$24,700, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

Kennelly, Megan, and **Fry, Jack D.** (Horticulture, Forestry and Recreation Resources), National Turfgrass Evaluation Program, Inc., \$500, "2012 National Tall Fescue Test Ancillary Trial-Brown Patch Tolerance (TF-12-16)."

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, Griffin, Jason (Horticulture, Forestry and Recreation Resources), **Janke, Rhonda R.** (Horticulture, Forestry and Recreation Resources), **Presley, DeAnn R.** (Agronomy), **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), and **Tomlinson, Peter J.** (Agronomy), US Department of Agriculture, \$22,128, "Development and Adoption of No-Till and Minimum Tillage Vegetable Production Systems in the Midwest."

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."

Kennelly, Megan, and Fry, Jack D. (Horticulture, Forestry and Recreation Resources), US Golf Association, Inc., \$7,482, "Development of Fine-Textured, Large Patch-Resistant Zoysiagrass Cultivars with Enhanced Cold Hardiness for the Transition Zone."

Leslie, John F., and Poland, Jesse A. (Agronomy), Monsanto Company, \$51,334, "Monsanto's Beachell-Borlaug International Scholars Program (Sandra Dunkel's PhD Study)."

Leslie, John F., Multi-Sponsor, \$378, "Fusarium Research."

Leslie, John F., US Agency for International Development, \$75,000, "Grain Molds, Mycotoxins and Stalk Rots of Sorghum and Millet."

Leslie, John F., and Minton, J. Ernest (Agricultural Experiment Station), US Department of Agriculture, \$29,040, "Acquisition of Goods and Services 58-5430-2-959."

Leslie, John F., and Minton, J. Ernest (Agricultural Experiment Station), US Department of Agriculture, \$7,920, "Acquisition of Goods and Services 58-5430-960."

Leslie, John F., and Toomajian, Christopher, US Department of Agriculture, \$58,182, "Fungal Genes that Limit or Prevent the Growth of Gibberella Zeae."

Leslie, John F., US Department of Agriculture, \$124,525, "Genetics of Rust Pathogen Avirulence and Host Resistance in Hard Winter Wheat."

Leslie, John F., US Department of Agriculture, \$79,999, "Improving Barley and Wheat Germplasm for Changing Environments."

Li, Jiarui, Todd, Timothy C., and Trick, Harold N., North Central Soybean Research Program, "Engineered Resistance to Soybean Cyst Nematodes via Induced Gene Silencing (RNAi)."

Li, Jiarui, Todd, Timothy C., and Trick, Harold N., United Soybean Board, "Specific and Efficient Suppression of Soybean Cyst Nematode in Soybean using Artificial Micro RNA Strategy."

Little, Christopher R., Aiken, Robert M. (Northwest Research Extension Center), and **Perumal, Ramasamy** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

Little, Christopher R., Perumal, Ramasamy (Agricultural Research Center-Hays), and **Tesso, Tesfaye** (Agronomy), Kansas Grain Sorghum Commission, \$27,831, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

Little, Christopher R., Adee, Eric A. (Agronomy), and **Presley, DeAnn R.** (Agronomy), Kansas Soybean Commission, \$29,012, "Irrigation Regimes and Soil Oxygen Content: Investigating Environmental Parameters Associated with SDS in Kansas."

Little, Christopher R., United Soybean Board, \$62,598, "Charcoal Rot Cultivar Evaluation Using Adapted and Exotic Sources of Resistance."

Little, Christopher R., United Soybean Board, \$55,879, "Identification and Biology of Seedling Pathogens of Soybean."

Little, Christopher R., and **Perumal, Ramasamy** (Agricultural Research Center-Hays), US Department of Agriculture, "Evaluation of Sorghum Minicore Germplasm to Identify New Sources for Cold Tolerance."

Poland, Jesse A., US Department of Agriculture, \$130,000, "Characterization of Allelic Variation Introduced into Cultivated Hexaploid Wheat from the D-Genome Progenitor Species *Aegilops tauschii* - Eric Olson."

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

Rotenberg, Dorith, and **Whitfield, Anna E.**, US Department of Agriculture, \$177,102, "Advancing Innovative Technologies and Integrated Strategies for Sustainable Management of Thrips-transmitted Tospoviruses."

Stack, James P., CRC Plant Biosecurity, \$560,860, "New Approaches for Diagnosing Bacterial Pathovars."

Stack, James P., US Department of Agriculture, \$500,000, "Great Plains Diagnostic Network."

Stack, James P., Bockus, William W., DeWolf, Erick D., Park, Sunghun (Horticulture, Forestry and Recreation Resources), **Trick, Harold N.**, and **Valent, Barbara S.**, US Department of Agriculture, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

Stack, James P., US Department of Agriculture, \$40,000, "Plant Diagnostic Information System, Michigan State University."

Stack, James P., US Department of Agriculture, \$40,000, "Plant Diagnostics Information System, Cornell University."

Todd, Timothy C., Kusel, Kelly R. (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$89,900, "Breeding and Management of Soybean for Improved Performance."

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

Todd, Timothy C., Multi-Sponsor, \$50,900, "Nematode and Soybean Research."

Todd, Timothy C., Li, Jiarui, and **Trick, Harold N.**, North Central Soybean Research Program, "Engineered Resistance to Soybean Cyst Nematodes via Induced Gene Silencing (RNAi)."

Todd, Timothy C., Li, Jiarui, and **Trick, Harold N.**, United Soybean Board, "Specific and Efficient Suppression of Soybean Cyst Nematode in Soybean using Artificial Micro RNA Strategy."

Toomajian, Christopher, and **Leslie, John F.**, US Department of Agriculture, "Fungal Genes that Limit or Prevent the Growth of Gibberella Zeae."

Trick, Harold N., Kusel, Kelly R. (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, \$89,900, "Breeding and Management of Soybean for Improved Performance."

Trick, Harold N., Fellers, John P., Fritz, Allan K. (Agronomy), and **Todd, Timothy C.**, Kansas Wheat Commission, \$34,663, "Wheat Improvement through Genetic Engineering."

Trick, Harold N., Li, Jiarui, and **Todd, Timothy C.**, North Central Soybean Research Program, \$172,112, "Engineered Resistance to Soybean Cyst Nematodes via Induced Gene Silencing (RNAi)."

Trick, Harold N., United Soybean Board, \$90,080, "Center for Soybean Tissue Culture and Genetic Engineering: Engineering Soybean for Effective Resistance to Soybean Cyst Nematode."

Trick, Harold N., Li, Jiarui, and Todd, Timothy C., United Soybean Board, \$71,605, "Specific and Efficient Suppression of Soybean Cyst Nematode in Soybean using Artificial Micro RNA Strategy."

Trick, Harold N., US Department of Agriculture, \$25,764, "Exploring the Role of Ethylene Signaling in Fusarium Head Blight (FHB) Resistance and Susceptibility."

Trick, Harold N., Bockus, William W., DeWolf, Erick D., Park, Sunghun (Horticulture, Forestry and Recreation Resources), **Stack, James P.**, and **Valent, Barbara S.**, US Department of Agriculture, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

Valent, Barbara S., Bockus, William W., DeWolf, Erick D., Park, Sunghun (Horticulture, Forestry and Recreation Resources), **Stack, James P.**, and **Trick, Harold N.**, US Department of Agriculture, \$1,089,000, "Novel Strategies for Managing Blast Diseases on Rice and Wheat."

Valent, Barbara S., US Department of Agriculture, \$34,079, "Whole Genome Sequencing of Magnaporthe Oryzae Isolates and Gene Expression Analysis of Infected Wheat."

White, Frank F., National Science Foundation, \$237,122, "Collaborative Research CEPR: Transcription Profiling and Functional Analyses of Bacterial Disease Susceptibility Pathways of Rice."

White, Frank F., National Science Foundation, \$374,860, "Collaborative Research: The Role of Host Nutrient Carriers in Pathogen Susceptibility."

White, Frank F., National Science Foundation, \$2,983,056, "TAL Effector Targeting in Plant Genomes."

Whitfield, Anna E., Bockus, William W., and Rotenberg, Dorith, Kansas Bioscience Authority, "Enabling Biotechnological Breakthroughs for Effective Control of Wheat Virus Diseases in Kansas."

Whitfield, Anna E., and **Smith, C. Michael** (Entomology), Kansas Wheat Commission, \$17,500, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

Whitfield, Anna E., National Science Foundation, \$202,131, "CAREER: Molecular Mechanisms of Virus-Vector Interactions."

Whitfield, Anna E., and Rotenberg, Dorith, US Department of Agriculture, "Advancing Innovative Technologies and Integrated Strategies for Sustainable Management of Thrips-transmitted Tospoviruses."

Whitfield, Anna E., US Department of Agriculture, \$71,340, "Analysis of the Molecular Interactions of Tomato Spotted Wilt Virus with its Most Efficient Insect Vector, *Frankliniella occidentalis* - Ismael Badillo-Vargas."

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, \$29,000, "Breeding and Management of Soybean for Improved Performance."

Moyer, Joseph L., Multi-Sponsor, \$5,000, "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."

Sweeney, Daniel W., DeRouchey, Joel M. (Animal Sciences and Industry), and **Nelson, Nathan O.** (Agronomy), US Department of Agriculture, \$17,567, "Validate, Improve and Regionalize Phosphorus Indices to Reduce P Loss Across the Heartland Region."

SOUTHWEST RESEARCH EXTENSION CENTER

Currie, Randall S., Multi-Sponsor, \$46,550, "Weed Control Research in Southwest Kansas."

Holman, Johnathon D., Ruiz Diaz Suarez, Dorivar A. (Agronomy), **Schlegel, Alan J.**, and **Shoup, Douglas E.** (Southeast Area Office), Kansas Grain Sorghum Commission, "Effect of Manure, Iron, and Zinc Application Methods on Grain Sorghum."

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

Holman, Johnathon D., and **Mengel, David B.** (Agronomy), The United Sorghum Checkoff Program Board, \$20,000, "Enhancing Sorghum Nitrogen Use Efficiency through Fertilizer Management."

Holman, Johnathon D., Heer, William F. (Agronomy), **Roozeboom, Kraig L.** (Agronomy), and **Stamm, Michael J.** (Agronomy), US Canola Association, \$6,250, "Increasing Extension Activity for Canola on Irrigated Lands in Kansas and Oklahoma."

Holman, Johnathon D., Roozeboom, Kraig L. (Agronomy), and **Stamm, Michael J.** (Agronomy), US Department of Agriculture, \$8,781, "Helping Kansas Producers and Ranchers Understand and Use Good Farming Practices for Winter Canola in Partnership with the Topeka Regional Office."

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., Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, \$16,792, "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., 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."

Schlegel, Alan J., Adee, Eric A. (Agronomy), **Dumler, Troy** (Southwest Area Office), **Nelson, John R.** (Agronomy), and **Roozeboom, Kraig L.** (Agronomy), Kansas Corn Commission, \$1,232, "Irrigation Management of Emerging Drought-Tolerant Corn Hybrids."

Schlegel, Alan J., Holman, Johnathon D., Ruiz Diaz Suarez, Dorivar A. (Agronomy), and **Shoup, Douglas E.** (Southeast Area Office), Kansas Grain Sorghum Commission, "Effect of Manure, Iron, and Zinc Application Methods on Grain Sorghum."

Schlegel, Alan J., Peterson, Dallas E. (Agronomy), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, \$1,440, "Managing Difficult Broadleaf and Grass Weeds Season Long in Grain Sorghum."

Schlegel, Alan J., Monsanto Company, \$5,080, "Service Order 47."

Schlegel, Alan J., Monsanto Company, \$16,510, "Service Order 48."

Schlegel, Alan J., and Holman, Johnathon D., Multi-Sponsor, \$52,725, "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., \$57,120, "Research Testing Project Influence of Agrisure Artesian™ Water-optimization Alleles on Hybrid Performance and Response to 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 Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY

Chen, Jianhan, National Science Foundation, \$141,555, "CAREER: Implicit Modeling of Non-polar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins."

Chen, Jianhan, National Science Foundation, \$224,492, "CCP-SAS - Collaborative Computational Project for Advanced Analyses of Structural Data in Chemical Biology and Soft Condensed Matter."

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., Peric, Dunja (Civil Engineering), and **Rasheed, Hayder A.** (Civil Engineering), National Science Foundation, \$611, "EAGER: Engineered Bio- Composites for Sustainable Concrete."

Durrett, Timothy P., Schrick, Kathrin (Biology), and **Welti, Ruth** (Biology), National Science Foundation, "MRI: Acquisition of a High-sensitivity Triple Quadrupole Mass Spectrometer for the Kansas Lipidomics Research Center."

Erickson, Larry E., Armbrecht Jackson, LLP, \$2,006, "Research and Technical Evaluation for Mercaptans in Soil and Ground Water."

Haukos, David A., US Department of the Interior, \$26,000, "Parasitemia, Health, and Reproduction in a Migratory Waterfowl."

Kanost, Michael R., US Department of Health and Human Services, \$332,252, "Proteinase Systems in Insect Hemolymph."

Kanost, Michael R., Culbertson, Christopher T. (Chemistry), and **Michel, Kristin** (Biology), US Department of Health and Human Services, \$86,902, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

Klebba, Phillip E., National Science Foundation, \$109,080, "Mechanism of TonB Action in Membrane Transport."

Tomich, John M., Kansas State University Foundation, \$38,000, "Spectros Fund."

Tomich, John M., Chen, Jianhan, and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$259,559, "Model Synthetic Channel Assemblies."

Zolkiewska, Anna, US Department of Health and Human Services, \$225,657, "ADAM12 in Breast Tumor Initiating Cells."

BIOLOGY

Blair, John M., National Science Foundation, \$225,418, "Collaborative Research: Does the Legacy of Long-Term Chronic Climate Change Alter Ecosystem Responses to Short Term Climatic Extremes."

Blair, John M., National Science Foundation, \$1,079,999, "Konza Prairie LTER VI: Grassland Dynamics and Long-Term Trajectories of Change."

Brown, Susan J., BASF Corporation, \$150,000, "Industry Participation Agreement for the Midwest Center for Genomic Studies of Arthropods affecting Plant, Animal and Human Health."

Brown, Susan J., US Department of Health and Human Services, \$567,961, "KSU Bioinformatics Core."

Chapes, Stephen K., US Department of Health and Human Services, \$34,500, "K.INBRE Star Trainees: B. Pfannenstiel, B. Pierce, B. Li."

Chapes, Stephen K., US Department of Health and Human Services, \$20,600, "K-INBRE Summer Scholars: M. Caywood, J. Parker, E. Peel, E. DeLoach, K. Pollard, J. Goering."

Chapes, Stephen K., US Department of Health and Human Services, \$4,150, "KINBRE-Summer Scholar: Mariah Jones."

Chapes, Stephen K., US Department of Health and Human Services, \$47,130, "Undergraduate Coordinator Office - KINBRE."

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

Clem, Rollie J., and **Passarelli, A. Lorena**, US Department of Health and Human Services, "Arbovirus Midgut Escape Mechanisms."

Cully, Jr., Jack F., US Department of Agriculture, \$6,000, "Cibola National Forest/Kansas State University 10.25 Challenge Cost Share Grant, 2009 at Kiowa/Rita Blanca National Grasslands."

Dodds, Walter K., Missouri Department of Conservation, \$73,973, "Ecological Integrity of Prairie Streams as Influenced by Patchburn Grazing and Riparian Protection."

Dodds, Walter K., and **Gido, Keith B.**, National Science Foundation, \$2,600, "Collaborative Research: Stream Consumers and Lotic Ecosystem Rates (SCALER): Scaling from Centimeters to Continents."

Ferguson, Carolyn J., National Science Foundation, \$346,000, "COLLABORATIVE RESEARCH: Polyploidy in Phlox and its Effects on Diversity."

Gido, Keith B., and **Dodds, Walter K.**, National Science Foundation, "Collaborative Research: Stream Consumers and Lotic Ecosystem Rates (SCALER): Scaling from Centimeters to Continents."

Gido, Keith B., National Science Foundation, \$12,695, "Dissertation Research:Forecasting Global Warming Effects on Developmental Performance of Prairie Stream Fishes along the River Continuum (Matthew Troia)."

Gido, Keith B., US Department of the Interior, \$128,587, "Conservation Priorities for Great Plains Fish Communities Based on Riverscape Connectivity and Genetic Integrity of Populations."

Gido, Keith B., US Department of the Interior, \$118,296, "Use and Importance of Tributaries to Sustaining Native Fish Communities in San Juan River."

Govind, Revathi, and **Ganta, Roman Reddy R.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, "Mentor for Revathi Govind Major Starter Grant: Roman Ganta."

Govind, Revathi, US Department of Health and Human Services, \$90,000, "Role of TcdR, the Alternate Sigma Factor in Clostridium Difficile Virulence."

Govind, Revathi, US Department of Health and Human Services, \$146,000, "ToxinSecretion in Clostridium Difficile."

Hancock, Lynn E., US Department of Health and Human Services, \$275,458, "The Regulation of Autolysis in Enterococcus Faecalis."

Hartnett, David C., Grassland Heritage Foundation, \$200, "Mary Bancroft Memorial Scholarship Award (Zahner)."

Hartnett, David C., Kansas Native Plant Society, \$200, "2013 Mary Bancroft Memorial Scholarship Award (Zahner)."

Hartnett, David C., Sigma Xi, KSU Chapter, \$400, "Sigma Xi Grant-In-Aid Research Award."

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

Haukos, David A., US Department of Agriculture, \$277,805, "Outcome Based Evaluation of the NRCS Lesser Prairie-chicken Initiative."

Haukos, David A., US Department of the Interior, \$11,150, "Development of Annotated Bibliography for Lesser Prairie Chickens."

Haukos, David A., US Department of the Interior, \$1,692,707, "Lesser Prairie-Chicken Habitat Use, Survival, and Recruitment."

Haukos, David A., US Department of the Interior, \$188,679, "Lesser Prairie-Chicken Response to USDA Conservation Practices in Kansas and Colorado."

Haukos, David A., Wisconsin Wildlife Federation, \$1,000, "Wisconsin Waterfowl Hunters' Conference 2013 Scholarship - Andrew P. Stetter."

Johnson, Loretta C., Grassland Heritage Foundation, \$500, "Bringing Genomics Outdoors: Drought Implications for Big Bluestem Grassland Conservation and Restoration (Miranda Gary)."

Jumpponen, Ari M., Garrett, Karen A. (Plant Pathology), **Kennelly, Megan** (Plant Pathology), and **Rivard, Cary L.** (Horticulture, Forestry and Recreation Resources), Ceres, Inc., \$14,995, "New Rootstock Systems for Disease Management and Increased Productivity in Organic Tomato: Understanding Effects on the Rhizobiome."

Jumpponen, Ari M., Garrett, Karen A. (Plant Pathology), and **Kennelly, Megan** (Plant Pathology), The Ceres Trust, \$22,167, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

Jumpponen, Ari M., Dalton, Timothy J. (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Lilja, Nina** (International Agricultural Programs), **Pagadala, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Agency for

International Development, \$9,862, "Improving Soil Quality and Crop Productivity through Farmers' Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

Michel, Kristin, US Department of Health and Human Services, \$55,670, "Effects of Blood Meal on Cellular Immunity in Mosquitoes (William B. Bryant)."

Michel, Kristin, Culbertson, Christopher T. (Chemistry), and **Kanost, Michael R.** (Biochemistry), US Department of Health and Human Services, \$212,040, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

Morgan, Theodore J., National Science Foundation, \$14,290, "Meeting: A Decade of Ecological Genomics: The Tenth Annual Ecological Genomics Symposium."

Nippert, Jesse B., National Science Foundation, \$18,647, "Ecosystem Transformations Along the Colorado Front Range: Prairie Dog Interactions with Multiple Components of Global Environmental Change."

Olson, Bradley J., US Department of Health and Human Services, \$32,500, "The Genetic Basis of Multicellularity by Evolutionary Transcriptomics (Tara Marriage)."

Passarelli, A. Lorena, and **Clem, Rollie J.**, US Department of Health and Human Services, \$618,860, "Arbovirus Midgut Escape Mechanisms."

Roelofs, Jeroen, and **Singh, Chingakham R.**, US Department of Health and Human Services, "Role of Ubiquitin-proteasome System in 40S Ribosome Quality Control."

Sandercock, Brett K., US Department of the Interior, \$35,962, "Linking Gut Microbiota Composition to Early-life Development and Body Condition of Shorebird Chicks."

Schrack, Kathrin, Durrett, Timothy P. (Biochemistry), and **Welti, Ruth**, National Science Foundation, "MRI: Acquisition of a High-sensitivity Triple Quadrupole Mass Spectrometer for the Kansas Lipidomics Research Center."

Schrack, Kathrin, National Science Foundation, \$235,722, "The Impact of Sterol Biogenesis on Cellulose Synthesis in Higher Plants."

Singh, Chingakham R., and **Roelofs, Jeroen**, US Department of Health and Human Services, \$32,500, "Role of Ubiquitin-proteasome System in 40S Ribosome Quality Control."

Spooner, Brian S., Kansas State University Foundation, \$35,100, "Biology Research Career Development Core."

Spooner, Brian S., Kansas State University Foundation, \$184,100, "Cancer Center Core."

Spooner, Brian S., US Department of Health and Human Services, \$16,250, "Recruitment Package in Host-Pathogen Interactions (Zhilong Yang)."

Vediyappan, Govindsamy, US Department of Health and Human Services, \$52,000, "Candida Albicans Hyphal Growth Inhibition."

Welti, Ruth, National Research Council of Canada, \$20,440, "Lipid Analysis."

Welti, Ruth, and **Gadbury, Gary L.** (Statistics), National Science Foundation, \$183,785, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

Welti, Ruth, Durrett, Timothy P. (Biochemistry), and **Schrick, Kathrin**, National Science Foundation, \$443,484, "MRI: Acquisition of a High-sensitivity Triple Quadrupole Mass Spectrometer for the Kansas Lipidomics Research Center."

CHEMISTRY

Aakeroy, Christer B., National Science Foundation, \$125,000, "Developing Reliable Strategies for Hydrogen and Halogen Bond Driven Supramolecular Synthesis."

Aakeroy, Christer B., Syngenta Crop Protection, LLC, \$101,151, "Research Agreement."

Aikens, Christine M., National Science Foundation, \$345,000, "Atomistic Mechanisms of Gold Nanoparticle Reactivity: Growth, Decomposition, Catalysis, and Ligand Exchange."

Bossmann, Stefan, and **Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, \$152,288, "Extending the Luminescence Lifetime in Breast Cancer Diagnostics."

Bossmann, Stefan, and **Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, \$300,000, "INSPIRE: Neutrophil Delivery of Apoptosis-Inducing Anticancer Drugs."

Bossmann, Stefan, US Department of Defense, \$50,000, "Biomass Conversion."

Bossmann, Stefan, US Department of Health and Human Services, \$7,500, "Synthesis of Copper-Chelators for Treating Mtb Infections."

Culbertson, Christopher T., **Kanost, Michael R.** (Biochemistry), and **Michel, Kristin** (Biology), US Department of Health and Human Services, \$48,665, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

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

Hua, Duy H., and Chang, Kyeong-Ok (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$137,204, "Development of Novel Therapeutic Agents for Norovirus Infection."

Hua, Duy H., US Department of Health and Human Services, \$26,000, "Inhibition of Glycogen Synthase Kinase 3B by Tricyclic Pyrones and Quinolines."

Hua, Duy H., US Department of Health and Human Services, \$64,350, "Structural Facets of the Inhibition of Alzheimer's Amyloid-B Oligomers."

Ito, Takashi, and Higgins, Daniel A., US Department of Energy, \$480,000, "SISGR: Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores."

Li, Jun, Kansas Board of Regents, \$25,000, "Nanostructured Solid-State Energy Storage Devices for Wide-Temperature Applications in Space Exploration."

Li, Jun, Kauffman Foundation, \$35,000, "Development of Clinically Diagnostic Biosensors for Blood-Borne Pathogens."

Li, Jun, National Aeronautics and Space Administration, \$349,919, "Nanostructured Solid-State Energy Storage Devices for Wide-Temperature Applications in Space Exploration."

Li, Jun, National Science Foundation, \$244,381, "Nanotechnology for Renewable Energy."

Li, Jun, and Richt, Juergen (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Portable Smart Platforms for Detection of Biological Pathogens and Chemicals."

GEOGRAPHY

Caldas, Marcellus M., Bergtold, Jason S. (Agricultural Economics), and **Xia, Tian** (Agricultural Economics), National Science Foundation, \$194,428, "Collaborative Research: Land Change in Brazil's Cerrado: Ethanol and Sugar Cane Expansion at the Farm and Industry Scale."

Daniels, Melinda, National Science Foundation, \$15,534, "Doctoral Dissertation Research: Influence of Grazing Differences on Stream Geomorphology in Tallgrass Prairie Headwater Streams (Bartosz Grudzinski)."

Daniels, Melinda, Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Nelson, Nathan O.** (Agronomy), US Department of the Interior, "FY 2011 Kansas Water Resources Research Institute."

Daniels, Melinda, YSI, Inc., \$1,000, "Critical Gateways in the Fluvial Ecosystem Landscape: Hydraulic, Geomorphologic and Thermal Habitat Dynamics at Confluences (Katie Costigan)."

Goodin, Douglas G., US Department of Defense, \$162,194, "Mapping Especially Dangerous Pathogens in Ukraine."

Harrington Jr, John A., National Council for the Social Studies, \$2,500, "Using Dual-Encoding and Geographic Information Systems (GIS): Advancing History and Geography Education in the K-12 Classroom (Lisa Tabor)."

Harrington Jr, John A., National Geographic Education Foundation, \$34,000, "Kansas 2012/2013 Alliance Grant."

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."

McLauchlan, Kendra K., National Science Foundation, \$69,735, "CAREER: Ecosystem Change in Forests and Grasslands from Decades to Millennia: A Retrospective Approach."

McLauchlan, Kendra K., National Science Foundation, \$118,619, "RCN: The Novus Project for Integrating Paleo- and Neo-ecosystem Ecology."

Peterson, Jeffrey M., Aistrup, Joseph (Political Science), **Bergtold, Jason S.** (Agricultural Economics), and **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), National Science Foundation, \$42,894, "Farmers' Decisions to Grow Crops for Fuel."

GEOLOGY

Datta, Saugata, US Department of Energy, \$66,821, "CO2 Western Annex: Modeling CO2 Sequestration in Saline Aquifer and Depleted Reservoir to Elevate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas."

Datta, Saugata, US Department of the Interior, \$15,000, "Uintah Basin - Pariette Wetland Selenium Study."

Datta, Saugata, US Department of the Interior, \$5,000, "Uintah Basin - Pariette Wetland Selenium Study."

Kirk, Matthew, American Chemical Society, \$50,000, "Field Study of Fundamental Controls on Methane Formation in a Coalbed Methane Reservoir."

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

Oviatt, Charles G., National Science Foundation, \$25,363, "Collaborative Research: Undocumented Shorelines of Lake Bonneville: New Paleoclimatic and Hydrodynamic Interpretations."

HISTORY

Breen, Louise A., Kansas State University Foundation, \$12,000, "NEH Faculty Enhancement Award in Military History."

Dorhout, Peter K., US Department of Defense, \$102,342, "Advanced Strategic Planning and Policy Program (ASP3)."

Lynn-Sherow, Bonnie, Kansas State University Foundation, \$120,000, "Chapman Center for Personnel."

KINESIOLOGY

Barstow, Thomas J., Day, Dwight D. (Electrical and Computer Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Kuhn, William B.** (Electrical and Computer Engineering), **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), **Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven** (Electrical and Computer Engineering), Kansas Board of Regents, \$4,200, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Barstow, Thomas J., Day, Dwight D. (Electrical and Computer Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Kuhn, William B.** (Electrical and Computer Engineering), **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), **Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven** (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$50,129, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Barstow, Thomas J., Schinstock, Dale E. (Mechanical and Nuclear Engineering), and **Warren, Steven** (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$124,683, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

MATHEMATICS

Bennett, Andrew G., Allen, David S. (Curriculum and Instruction), **Brown, Jonathan H., Martinie, Sherri** (Curriculum and Instruction), and **Rumsey, Chepina W.** (Curriculum and Instruction), US Department of Education, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Bennett, Andrew G., Allen, David B. (Curriculum and Instruction), **Martinie, Sherri** (Curriculum and Instruction), and **Rumsey, Chepina W.** (Curriculum and Instruction), US Department of Education, "Project Quest, Leadership for the Pursuit of Excellence in Mathematics Education."

Brown, Jonathan H., Allen, David S. (Curriculum and Instruction), **Bennett, Andrew G., Martinie, Sherri** (Curriculum and Instruction), and **Rumsey, Chepina W.** (Curriculum and Instruction), US Department of Education, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Maldonado, Diego M., and Naibo, Virginia M., National Science Foundation, "NSF/CBMS Regional Conference in the Mathematical Sciences - The Global Behavior of Solutions to Critical Nonlinear Wave Equations - June 3 - 7, 2013."

Naibo, Virginia M., and Maldonado, Diego M., National Science Foundation, \$35,000, "NSF/CBMS Regional Conference in the Mathematical Sciences - The Global Behavior of Solutions to Critical Nonlinear Wave Equations - June 3 - 7, 2013."

Rojkovskaia, Natalia, National Science Foundation, \$15,000, "The Third Graduate Student Research Conference in Algebra and Representation Theory."

Soibelman, Yan S., and Zharkov, Ilia, National Science Foundation, \$348,470, "FRG: Collaborative Research: Wall-crossings in Geometry and Physics."

Spencer, Craig, US Department of Defense, \$19,999, "The Circle Method and Diophantine Problems."

Zharkov, Ilia, and Soibelman, Yan S., National Science Foundation, "FRG: Collaborative Research: Wall-crossings in Geometry and Physics."

MUSIC

Yu Oppenheim, Julie, Master Teacher, Inc., \$15,950, "Summer Choral Institute."

PHYSICS

Ben-Itzhak, Itzhak, Kling, Matthias, and Trallero, Carlos A., National Science Foundation, "MRI: Acquisition of a High Intensity Tunable Femtosecond Laser."

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, \$2,500,000, "Structure and Dynamics of Atoms. Ions, Molecules, and Surfaces."

Bolton, Timothy A., Ratra, Bharat, Sidwell, Ronald A., Stanton, Noel R., and Von Toerne, Eckhard, National Science Foundation, \$18,930, "Quarknet."

Bolton, Timothy A., US Department of Energy, \$290,512, "Intergovernmental Personnel Act (IPA) Assignment for Dr. Timothy Bolton."

Chakrabarti, Amitabha, and Sorensen, Christopher M., National Science Foundation, "Experimental and Theoretical Studies of Light Scattering from Irregularly Shaped Particles."

Corwin, Kristan L., and Weaver, Oliver L., National Science Foundation, \$137,600, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

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, \$157,056, "Ultracold Polar Molecules: New Phases of Matter for Quantum Information and Quantum Control."

Horton-Smith, Glenn A., Ivanov, Andrew G., Maravin, Yurii, Ratra, Bharat, and Stanton, Noel R., US Department of Energy, \$638,000, "Heavy Quark and Neutrino Physics."

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

Kling, Matthias, Ben-Itzhak, Itzhak, and Trallero, Carlos A., National Science Foundation, "MRI: Acquisition of a High Intensity Tunable Femtosecond Laser."

Kling, Matthias, and Trallero, Carlos A., US Department of Defense, "Intense, Few Cycle, Infrared Pulses for Attosecond and Ultrafast Science."

Lin, Chii-Dong, US Department of Energy, \$169,000, "Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons."

Maravin, Yurii, Fermi National Accelerator Laboratory, \$69,028, "Coordination of the US CMS Research Effort at the LHC Physics Center in the Area of Dileptons."

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

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

Rudenko, Artem, National Science Foundation, \$83,905, "Charge and Energy Transfer Upon Inner-shell Photoionization."

Sayre, Eleanor C., National Science Foundation, \$38,540, "Collaborative Research: WIDER: EAGER: Increasing Faculty Use of Formative and Summative Assessment through Online Resources and Faculty Development."

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

Sorensen, Christopher M., and Chakrabarti, Amitabha, National Science Foundation, \$165,623, "Experimental and Theoretical Studies of Light Scattering from Irregularly Shaped Particles."

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

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

Thumm, Uwe, National Science Foundation, \$65,000, "Attosecond Time-resolved Quantum Dynamics in Atoms and Surfaces."

Trallero, Carlos A., Ben-Itzhak, Itzhak, and Kling, Matthias, National Science Foundation, \$692,927, "MRI: Acquisition of a High Intensity Tunable Femtosecond Laser."

Trallero, Carlos A., and Kling, Matthias, US Department of Defense, \$188,500, "Intense, Few Cycle, Infrared Pulses for Attosecond and Ultrafast Science."

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

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

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, \$42,894, "Farmers' Decisions to Grow Crops for Fuel."

Bell, Sam R., and Beardsley, Craig A. (National Agricultural Biosecurity Center), Kauffman Foundation, \$25,792, "Agribusiness Development Team Project."

Dorhout, Peter K., US Department of Defense, \$102,342, "Advanced Strategic Planning and Policy Program (ASP3)."

PSYCHOLOGICAL SCIENCES

Brase, Gary, and Vasserman, Eugene (Computing and Information Sciences), National Science Foundation, "EAGER: Education-optional Security Usability on the Internet."

Cain, Mary E., US Department of Health and Human Services, \$436,250, "The Effects of Differential Rearing on Glutamate Homeostasis and Addiction."

Kirkpatrick, Kimberly, US Department of Health and Human Services, \$246,154, "Timing, Reward Processing and Choice."

Loschky, Lester C., US Department of Defense, \$150,000, "A New Measure of the Useful Field of View (UFOV): The Gaze-Contingent Peripheral Blur Detection Task."

Young, Michael, US Department of Health and Human Services, \$8,880, "Waiting for a Better Future: Deciding When to "Cash In" When Outcomes are Continuously Improving."

SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

Furnas, Kelly R., and **Wolgast, Stephen L.**, Collegian Media Group, "Student Publications Positions."

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

Powers, Angela, and **Furnas, Linda S.**, Journalism Education Association, \$192,811, "Establishment of the Journalism Education Association National Headquarters at Kansas State University."

Wolgast, Stephen L., and **Furnas, Kelly R.**, Collegian Media Group, \$186,656, "Student Publications Positions."

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

Kulcsar, Laszlo, **Aistrup, Joseph** (Political Science), **Bergtold, Jason S.** (Agricultural Economics), and **Peterson, Jeffrey M.** (Agricultural Economics), National Science Foundation, \$42,894, "Farmers' Decisions to Grow Crops for Fuel."

Logan, Brad R., and **Ritterbush, Lauren W.**, US Department of the Interior, "Flint Hills Archaeological Conference."

Logan, Brad R., US Department of the Interior, \$4,893, "National Register of Historic Places Evaluation of the Dreiling Sites (14RY402 abd 14RY403), Riley County, Kansas."

Middendorf, Gerad D., **Devlin, Daniel L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), **Shoup, Douglas E.** (Southeast Area Office), **Shroyer, James P.** (Agronomy), **Swamy, Aavudai Anandhi** (Agronomy), **Tomlinson, Peter J.** (Agronomy), and **Waggoner, Justin** (Southwest Area Office), US Department of Agriculture, \$57,663, "Resilience and Vulnerability of Beef Cattle Production in the Southern Great Plains under Changing Climate, Land Use and Markets."

Ritterbush, Lauren W., and **Logan, Brad R.**, US Department of the Interior, \$2,930, "Flint Hills Archaeological Conference."

Roper, Donna C., Garver LLC, \$2,800, "Phase II Archaeological Survey for Proposed Upgrade at Augusta Municipal Airport, Augusta, Butler County, Kansas."

Roper, Donna C., US Department of the Interior, \$116,699, "Testing Archaeological Sites 25FT56/130, 25FT353, 25FT354, & 25FT355, Hugh Butler Lake, Nebraska; Continued Testing Archaeological Sites."

STATISTICS

Bello, Nora M., US Department of Agriculture, \$35,285, "Statistical Methods and Bioinformatics Tools for Multiple Trait Whole Genome Precision Selection for Heterogeneous Environments."

Bello, Nora M., US Department of Health and Human Services, \$40,950, "Evaluating Human Processing of Front of Pack Nutritional Labels."

Gadbury, Gary L., and **Welti, Ruth** (Biology), National Science Foundation, \$9,673, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

Song, Weixing, National Science Foundation, \$140,000, "Collaborative Research: Model Diagnostics in Regression and Tobit Regression Models with Measurement Errors."

Wang, Haiyan, Simons Foundation, \$35,000, "Collaboration Grant Proposal on Methods for High Dimension Data."

Wang, Haiyan, and **Zacharakis, Jeffrey T.** (Dean of Education), US Department of Education, "Exploration of KBOR and KSDE Data to Better Understand Participation, Retention and Graduation Patterns of ABE/GED Students Transitioning to Community College Programs."

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING

Ott, Richard L., Kansas State University Foundation, \$41,416, "Accounting Department KSU Foundation."

MANAGEMENT

Kovar, Stacy E., Multi-Sponsor, \$5,000, "MBA Practicum."

COLLEGE OF EDUCATION

CURRICULUM AND INSTRUCTION

Allen, David B., Bennett, Andrew G. (Mathematics), **Martinie, Sherri**, and **Rumsey, Chepina W.**, US Department of Education, "Project Quest, Leadership for the Pursuit of Excellence in Mathematics Education."

Allen, David S., Shroyer, Margaret G., and **Spears, Jacqueline D.**, Kansas Board of Regents, "Supporting Transitions."

Allen, David S., Bennett, Andrew G. (Mathematics), **Brown, Jonathan H.** (Mathematics), **Martinie, Sherri**, and **Rumsey, Chepina W.**, US Department of Education, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Martinie, Sherri, Allen, David S., Bennett, Andrew G. (Mathematics), **Brown, Jonathan H.** (Mathematics), and **Rumsey, Chepina W.**, US Department of Education, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Martinie, Sherri, Allen, David B., Bennett, Andrew G. (Mathematics), and **Rumsey, Chepina W.**, US Department of Education, \$295,178, "Project Quest, Leadership for the Pursuit of Excellence in Mathematics Education."

Rumsey, Chepina W., Allen, David S., Bennett, Andrew G. (Mathematics), **Brown, Jonathan H.** (Mathematics), and **Martinie, Sherri**, US Department of Education, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Rumsey, Chepina W., Allen, David B., Bennett, Andrew G. (Mathematics), and **Martinie, Sherri**, US Department of Education, "Project Quest, Leadership for the Pursuit of Excellence in Mathematics Education."

Shroyer, Margaret G., Allen, David S., and **Spears, Jacqueline D.**, Kansas Board of Regents, "Supporting Transitions."

Spears, Jacqueline D., Allen, David S., and **Shroyer, Margaret G.**, Kansas Board of Regents, "Supporting Transitions."

DEAN OF CONTINUING EDUCATION

Rankin, Charles I., US Department of Education, "Midwest Equity Assistance Center."

DEAN OF EDUCATION

Dalton, Andrew, US Department of Education, \$356,349, "Project KANCO."

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, \$137,919, "Kansas Foundation for Agriculture in the Classroom."

Havlicek, Barbara J., Multi-Sponsor, \$28,376, "Council for Public School Improvement."

Havlicek, Barbara J., Multi-Sponsor, \$145,006, "Educational Computer Assistance."

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

Herrera, Socorro G., US Department of Education, \$456,253, "DESTINY 2."

Herrera, Socorro G., US Department of Education, \$399,900, "Project KORE."

Herrera, Socorro G., US Department of Education, \$17,000, "Project Unlimited Proficiency."

Middendorf, B. Jan, Kansas Board of Regents, \$65,000, "Kan-ed Evaluation - Phase IX."

Middendorf, B. Jan, Kansas Board of Regents, \$80,000, "Kansas Board of Regents on Behalf of the Data Research and Planning Unit for Evaluation Services."

Middendorf, B. Jan, National Science Foundation, \$325,000, "Adapting Socio-ecological Systems to Increased Climate Variability."

Middendorf, B. Jan, National Science Foundation, \$25,704, "ADVANCE LEADER Consortium."

Middendorf, B. Jan, National Science Foundation, \$16,856, "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, \$52,312, "External Evaluation of Iowa NSF EPSCoR."

Middendorf, B. Jan, and **Shuman, Cindy**, National Science Foundation, \$49,558, "Research in Disabilities Education Synthesis Project (RDE-SP)."

Middendorf, B. Jan, National Science Foundation, \$15,000, "REU Site: Operational Etank: Moving Toward a Sustainable World."

Middendorf, B. Jan, US Department of Defense, \$7,500, "DoDEA USD 475 Foreign Languages (Pilot for Proliferate)."

Middendorf, B. Jan, US Department of Education, \$33,334, "Mueller Aerospace &Engineering Discovery Magnet."

Middendorf, B. Jan, US Department of Health and Human Services, \$30,000, "Medicare Rural Hospital Flexibility Program (FLEX)."

Middendorf, B. Jan, US Department of Labor, \$975,000, "National Aviation Consortium."

Rankin, Charles I., US Department of Education, \$677,961, "Midwest Equity Assistance Center."

Rumsey, Chepina W., Allen, David S. (Curriculum and Instruction), **Bennett, Andrew G.** (Mathematics), **Brown, Jonathan H.** (Mathematics), and **Martinie, Sherri** (Curriculum and Instruction), US Department of Education, \$150,000, "Improving Mathematics Instructions through Lesson Study (MILeS)."

Shroyer, Margaret G., Allen, David S. (Curriculum and Instruction), and **Spears, Jacqueline D.** (Curriculum and Instruction), Kansas Board of Regents, \$118,666, "Supporting Transitions."

Shuman, Cindy, and **Middendorf, B. Jan**, National Science Foundation, "Research in Disabilities Education Synthesis Project (RDE-SP)."

Spears, Jacqueline D., Andresen, Daniel A. (Computing and Information Sciences), **Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$113,222, "Infusing System Design and Sensor Technology in Education."

Staples, Kimberly A., Bender, Erin S., Knackendoffel, D. Ann, Rebello, Nobel S., and Wong, Peter P., US Department of Education, \$260,050, "Advancing 6-12 Science Achievement: SHIFTS in Next Generation Science Teacher Professional Development."

Thurston, Linda P., National Science Foundation, \$14,981, "Evaluating Broadening Participation in Computing Alliances (BPC) Program."

Zacharakis, Jeffrey T., and Wang, Haiyan (Statistics), US Department of Education, \$10,500, "Exploration of KBOR and KSDE Data to Better Understand Participation, Retention and Graduation Patterns of ABE/GED Students Transitioning to Community College Programs."

EDUCATIONAL LEADERSHIP

Lindsey, Matthew, Corporation for National and Community Service, \$87,771, "Kansas Campus Compact."

Rankin, Charles I., US Department of Education, "Midwest Equity Assistance Center."

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE

Case, Scott A., and Kramer, Bradley A., Multi-Sponsor, "Advanced Manufacturing - Multi-sponsor."

Case, Scott A., and Tucker, Jeffrey W., Multi-Sponsor, "Advanced Manufacturing Institute - Manufacturing Learning Center."

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

Jones, Taylor S., Kansas Livestock Foundation, \$18,500, "Installation and Testing of Modification for Large-scale Phosphorus Reduction System (PHRED): Phase VI (P13-0004)."

Jones, Taylor S., Kansas Livestock Foundation, \$11,500, "Scale Up and Design of Modifications for Large-Scale Phosphorus Reduction System (PHRED): Phase V (P12-0061)."

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

Jones, Taylor S., US Department of Agriculture, \$22,100, "Experimental Testing of the Phosphorus Removal Potential from Ethanol Thin Sillage Using the Pilot-Scale PHRED System (P13-0002)."

Kramer, Bradley A., and Tucker, Jeffrey W., Economic Development Administration, "Project 17: Together We Succeed."

Kramer, Bradley A., Kansas Department of Commerce, \$203,710, "Kansas Department of Commerce University Center FY13 Core Grant."

Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Department of Commerce, "Project 17 Kansas Department of Commerce Matching Funds."

Kramer, Bradley A., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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 Case, Scott A., Multi-Sponsor, \$15,187, "Advanced Manufacturing - Multi-sponsor."

Kramer, Bradley A., Case, Scott A., Jones, Taylor S., and Tucker, Jeffrey W., Multi-Sponsor, \$381,550, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Kramer, Bradley A., Jones, Taylor S., and Tucker, Jeffrey W., Multi-Sponsor, \$215,000, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Kramer, Bradley A., and Tucker, Jeffrey W., Southeast Kansas Prosperity Foundation, "Matching Funds for Southeast Kansas Advanced Manufacturing Reshoring Strategy Development Program."

Kramer, Bradley A., and Tucker, Jeffrey W., US Department of Agriculture, "Southeast Kansas Advanced Manufacturing Reshoring Strategy Development Program."

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

Tucker, Jeffrey W., and Kramer, Bradley A., Economic Development Administration, \$500,000, "Project 17: Together We Succeed."

Tucker, Jeffrey W., and Kramer, Bradley A., Kansas Department of Commerce, \$1,000,000 (includes \$20,000 from KS Dept. of Commerce In-kind), "Project 17 Kansas Department of Commerce Matching Funds."

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

Tucker, Jeffrey W., and Case, Scott A., Multi-Sponsor, \$14,459, "Advanced Manufacturing Institute - Manufacturing Learning Center."

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

Tucker, Jeffrey W., and Kramer, Bradley A., Southeast Kansas Prosperity Foundation, \$20,000, "Matching Funds for Southeast Kansas Advanced Manufacturing Reshoring Strategy Development Program."

Tucker, Jeffrey W., and Kramer, Bradley A., US Department of Agriculture, \$115,000 (includes \$20,000 from SEK Prosperity Foundation, Inc.), "Southeast Kansas Advanced Manufacturing Reshoring Strategy Development Program."

Tucker, Jeffrey W., and Kramer, Bradley A., US Department of Commerce, \$240,000, "University Center Economic Development Program."

ARCHITECTURAL ENGINEERING AND CONSTRUCTION SCIENCE

Yunk, Raphael A., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Advanced Manufacturing Institute), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), and **Stokes, Robert W.** (Civil Engineering), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Ebert, Kerri L., and Hadley, Gregg L. (Agriculture and Natural Resources), US Department of Agriculture, "Kansas SARE - Kansas 2013 State PDP Chapter 3 Program."

Erickson, Larry E., Armbrecht Jackson, LLP, \$2,006, "Research and Technical Evaluation for Mercaptans in Soil and Ground Water."

Harner III, Joseph P., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Kramer, Bradley A.** (Industrial and Manufacturing Systems Engineering), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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 Department of the Interior, \$42,453, "Optimal Allocation of Training Lands (OPAL) Field Assessment Using Remote Sensed Imagery."

Liu, Zifei, DeRouchey, Joel M., Maghirang, Ronaldo G., and Murphy, James P., National Pork Board, \$36,262, "Effectiveness of Vegetative Environmental Buffers to Reduce Swine Facility Emissions."

Liu, Zifei, National Pork Board, \$20,785, "Meta-Analysis of H₂S, NH₃, VOC, PM₁₀ and OM_{2.5} Emissions from Swine Productions in North America."

Liu, Zifei, DeRouchey, Joel M. (Animal Sciences and Industry), **Maghirang, Ronaldo G., and Murphy, James P.,** National Pork Board, \$37,368, "Mitigation of Air Emissions from Swine Buildings through the Photocatalytic Technology using UV/TiO₂."

Maghirang, Ronaldo G., DeRouchey, Joel M. (Animal Sciences and Industry), **Liu, Zifei**, and **Murphy, James P.**, National Pork Board, "Mitigation of Air Emissions from Swine Buildings through the Photocatalytic Technology using UV/TiO₂."

Maghirang, Ronaldo G., Prairie Swine Centre, Inc., \$18,242, "Investigation of Applications of Air Filtration in Swine Production to Reduce the Risk of Infection with Airborne Diseases."

Maghirang, Ronaldo G., and **Steichen, James M.**, US Department of Agriculture, \$59,992, "Measurement and Modeling of Fugitive Dust from Off-Road DOD Activities."

Maghirang, Ronaldo G., US Department of Agriculture, \$48,750, "Mechanistic Modeling of Wind Barriers and Grain Commingling Using CFD and DEM."

Murphy, James P., DeRouchey, Joel M. (Animal Sciences and Industry), **Liu, Zifei**, and **Maghirang, Ronaldo G.**, National Pork Board, "Mitigation of Air Emissions from Swine Buildings through the Photocatalytic Technology using UV/TiO₂."

Rogers, Danny H., Lamm, Freddie R. (Northwest Research Extension Center), and **O'Brien, Daniel M.** (Northwest Area Office), Kansas Corn Commission, "Irrigated Corn Yield in Producer's Fields as Affected by Management and Location."

Rogers, Danny H., US Department of Agriculture, \$27,540, "Improving Water Productivity and New Water Management Technologies to Sustain Rural Economies -TAMU."

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, \$763, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Slocombe, John W., US Department of Agriculture, \$162,000, "Kansas AgrAbility Project."

Steichen, James M., and **Maghirang, Ronaldo G.**, US Department of Agriculture, "Measurement and Modeling of Fugitive Dust from Off-Road DOD Activities."

Wang, Donghai, and **Tesso, Tesfaye**, Kansas Grain Sorghum Commission, \$17,500, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Wang, Donghai, and **Sun, X. Susan** (Grain Science and Industry), Kansas Soybean Commission, "Optimization of Dihydroxylized Soybean Oil (DSO) Derivatives for Pressure Sensitive Adhesives."

Wang, Donghai, Peterson, Jeffrey M. (Agricultural Economics), **Pfromm, Peter H.** (Chemical Engineering), and **Rezac, Mary E.** (Chemical Engineering), National Science Foundation, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

Wang, Donghai, and **Kramer, Bradley A.** (Industrial and Manufacturing Systems Engineering), National Science Foundation, \$6,000, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

Wang, Donghai, Boguski, Terrie K. (Center for Hazardous Substance Research), **Chang, Shing I.** (Industrial and Manufacturing Systems Engineering), and **Sun, X. Susan** (Grain Science and Industry), US Department of Agriculture, \$812,629, "Enhancing the Economic Viability of Camelina as a Bio-Feedstock: Optimization and Demonstration of the Production System and Bioproduct Development."

Wang, Donghai, US Department of Agriculture, \$70,000, "Spectroscopic Measurement of Biological Materials."

Wang, Donghai, US Department of Transportation, \$37,395, "Commercialization of Identity Preserved Grain Sorghum with Optimized Endosperm Matrices for Enhanced Bioethanol Conversion and High Lysine DDG Feed and Food Value."

Wilken, Lisa R., Quality Technology International, Inc., \$13,774, "Evaluation of Enzyme Dosage Required for Aqueous Enzymatic Oil Extraction from HPHPG and LPLPG."

Zhang, Naiqian, Andresen, Daniel A. (Computing and Information Sciences), **Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), and **Spears, Jacqueline D.** (Dean of Education), National Science Foundation, \$113,222, "Infusing System Design and Sensor Technology in Education."

CENTER FOR HAZARDOUS SUBSTANCE RESEARCH

Boguski, Terrie K., Chang, Shing I. (Industrial and Manufacturing Systems Engineering), **Sun, X. Susan** (Grain Science and Industry), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Agriculture, \$228,552, "Enhancing the Economic Viability of Camelina as a Bio-Feedstock: Optimization and Demonstration of the Production System and Bioproduct Development."

Erickson, Larry E., Ambrecht Jackson, LLP, \$2,675, "Research and Technical Evaluation for Mercaptans in Soil and Ground Water."

Erickson, Larry E., and **Pahwa, Anil** (Electrical and Computer Engineering), Black & Veatch Corporation, \$20,000, "Building a World of Difference with Solar Powered Charge Stations for Electric Vehicles."

Leven, Blase A., Hettiarachchi, Ganga M. (Agronomy), and **Martin, Sabine E.** (Geology), US Environmental Protection Agency, \$37,500, "Sustainable Local Gardening Redevelopment at Brownfields Sites."

CHEMICAL ENGINEERING

Berry, Vikas, US Department of Defense, \$100,000, "Tapered Graphene Nanoribbons of Controlled Tapering Angle: Structurally Tuning the Charge-carrier Properties."

Edgar, James H., Clark, Gary A. (Dean of Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Industrial and Manufacturing Systems Engineering), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Edgar, James H., National Science Foundation, \$50,000, "I-Corps: Hexagonal Boron Nitride for Electronic Devices."

Edgar, James H., US Department of Defense, \$18,468, "High K Oxide Insulated Gate Group III Nitride-Based FETs."

Edgar, James H., and **Geuther, Jeffrey A.** (Mechanical and Nuclear Engineering), US Department of Homeland Security, \$111,719, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."

Erickson, Larry E., and **Hohn, Keith L.**, National Science Foundation, "REU Site: Earth, Wind, and Fire: Sustainable Energy in the 21st Century."

Hohn, Keith L., INVISTA, \$85,800, "Impact of Amines on Catalytic Dehydration of 2,3-butanediol to 1,3-butadiene."

Hohn, Keith L., and **Erickson, Larry E.**, National Science Foundation, \$108,127, "REU Site: Earth, Wind, and Fire: Sustainable Energy in the 21st Century."

Pfromm, Peter H., Peterson, Jeffrey M. (Agricultural Economics), **Rezac, Mary E.**, and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

Rezac, Mary E., Peterson, Jeffrey M. (Agricultural Economics), **Pfromm, Peter H.**, and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, \$646,412, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (ISTAR)."

CIVIL ENGINEERING

Dissanayake, Sunanda, US Department of Transportation, \$49,962, "Highway Work Zone Capacity Estimation using Field Data from Kansas."

Dissanayake, Sunanda, and **Hossain, Mustaque A.**, US Department of Transportation, "Implementation of the 2002 AASHTO Design Guide for Pavement Structures."

Esmaeily, Asadollah, and **Riding, Kyle**, Kansas Department of Transportation, "Air Void Clustering."

Hossain, Mustaque A., Kansas Department of Transportation, \$72,000, "Minimum Virgin Binder Limits in Recycled Superpave (SR) Mixes in Kansas."

Hossain, Mustaque A., Kansas Department of Transportation, \$74,108, "Performance Evaluation of Superpave SR Mixtures Containing RAP from Surface Recycling."

Hossain, Mustaque A., and **Najjar, Yacoub M.**, TENCATE Geosynthetics, \$134,556, "Accelerated Testing of Paved Roads with Geosynthetic-Reinforced Base (CISL Experiment No. 18)."

Hossain, Mustaque A., and **Dissanayake, Sunanda**, US Department of Transportation, \$200,000, "Implementation of the 2002 AASHTO Design Guide for Pavement Structures."

Hossain, Mustaque A., and **Stokes, Robert W.**, US Department of Transportation, \$325,619, "Region VII University Transportation Center (UTC)."

Mladenov, Natalie, National Science Foundation, \$107,754, "The Role of Dust on Snow and Other Aeolian Inputs in Soil Formation and Biogeochemical Cycling in Barren, Alpine Catchments."

Najjar, Yacoub M., and **Hossain, Mustaque A.**, TENCATE Geosynthetics, "Accelerated Testing of Paved Roads with Geosynthetic-Reinforced Base (CISL Experiment No. 18)."

Peric, Dunja, Davis, Lawrence C. (Biochemistry), and **Rasheed, Hayder A.**, National Science Foundation, "EAGER: Engineered Bio-Composites for Sustainable Concrete."

Peterman, Robert J., and **Riding, Kyle**, Kansas Department of Transportation, \$68,000, "Sustainable and Durable Bridge Decks (Phase 1)."

Peterman, Robert J., **Beck, B. Terry** (Mechanical and Nuclear Engineering), and **Wu, Chih-Hang** (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$250,749, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

Rasheed, Hayder A., Kansas Department of Transportation, \$48,000, "KDOT: Column Expert: FRP Confinement of Square and Slightly Rectangular Concrete Columns Originally Confined with Steel Ties."

Rasheed, Hayder A., Davis, Lawrence C. (Biochemistry), and **Peric, Dunja**, National Science Foundation, \$1,240, "EAGER: Engineered Bio-Composites for Sustainable Concrete."

Riding, Kyle, and **Esmaeily, Asadollah**, Kansas Department of Transportation, \$66,000, "Air Void Clustering."

Riding, Kyle, and **Peterman, Robert J.**, Kansas Department of Transportation, "Sustainable and Durable Bridge Decks (Phase 1)."

Riding, Kyle, US Department of Transportation, \$1,215,744, "Freeze-Thaw Performance of Concrete Railroad Ties."

Russell, Eugene R., and **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$39,500, "A Study to Mitigate Rural and Urban High-Speed Horizontal Curve Crashes in Kansas."

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., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Advanced Manufacturing Institute), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Stokes, Robert W., and **Hossain, Mustaque A.**, US Department of Transportation, "Region VII University Transportation Center (UTC)."

Stokes, Robert W., US Department of Transportation, \$100,000, "Traffic Assistance Services for Kansas (TASK) Program (FY 2012 - 2014)."

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., Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Design and Sensor Technology in Education."

Andresen, Daniel A., Hatcliff, John M., and Vasserman, Eugene, National Science Foundation, "TWC TTP: Small: Security, Privacy, and Trust for Systems of Coordinating Medical Devices."

Andresen, Daniel A., Chalin, Patrice, 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."

Chalin, Patrice, Hatcliff, John M., Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, "CPS:Synergy: Collaborative Research: Trustworthy Composition of Dynamic App-Centric Architectures for Medical Application Platforms."

Chalin, Patrice, Hatcliff, John M., and Robby, -, National Science Foundation, \$80,000, "FDA SIR: Tools, Processes, and Artifacts for Certifiable Clinical Applications in Interoperable Medical Device Frameworks."

Chalin, Patrice, 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."

DeLoach, Scott A., Hatcliff, John M., Ou, Xinming (Simon), Singh, Gurdip, and Vasserman, Eugene, National Science Foundation, "Building theNational Cyber Workforce: New SFS Program at Kansas State University."

Hatcliff, John M., DeLoach, Scott A., Ou, Xinming (Simon), Singh, Gurdip, and Vasserman, Eugene, National Science Foundation, "Building theNational Cyber Workforce: New SFS Program at Kansas State University."

Hatcliff, John M., Chalin, Patrice, Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, \$677,600, "CPS: Synergy: Collaborative Research: Trustworthy Composition of Dynamic App-Centric Architectures for Medical Application Platforms."

Hatcliff, John M., Chalin, Patrice, and Robby, -, National Science Foundation, "FDA SIR: Tools, Processes, and Artifacts for Certifiable Clinical Applications in Interoperable Medical Device Frameworks."

Hatcliff, John M., Andresen, Daniel A., and Vasserman, Eugene, National Science Foundation, "TWC TTP: Small: Security, Privacy, and Trust for Systems of Coordinating Medical Devices."

Hatcliff, John M., Amtoft, Torben, Banerjee, Anindya, Ou, Xinming (Simon), and Robby, -, US Department of Defense, \$600,001, "Evidence-based Trust in Large-Scale MLS Systems."

Hatcliff, John M., Andresen, Daniel A., Chalin, Patrice, Robby, , Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering), US Department of Health and Human Services, \$80,000, "Development of aPrototype Healthcare Intranet for Improved Health Outcomes."

Hsu, William H., iQ Gateway LLC, \$40,000, "Computational Information and Knowledge Management: Data Mining, Analytics, and Information Extraction and Integration Tasks."

Neilsen, Mitchell L., Andresen, Daniel A., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$339,667, "Infusing System Design and Sensor Technology in Education."

Neilsen, Mitchell L., Sandia National Laboratories, \$50,000, "Interface Development for Thermal Battery Models."

Neilsen, Mitchell L., US Department of Agriculture, \$35,000, "Enhancement of Software Tools for Predicting Embankment Erosion of Earthen Dams."

Ou, Xinming (Simon), DeLoach, Scott A., Hatcliff, John M., Singh, Gurdip, and Vasserman, Eugene, National Science Foundation, \$851,328, "Building the National Cyber Workforce: New SFS Program at Kansas State University."

Ou, Xinming (Simon), National Science Foundation, \$100,800, "CAREER: Reasoning about Uncertainty in Cybersecurity."

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, -, Chalin, Patrice, and Hatcliff, John M., National Science Foundation, "FDA SIR: Tools, Processes, and Artifacts for Certifiable Clinical Applications in Interoperable Medical Device Frameworks."

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., Chalin, Patrice, 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."

Schmidt, David A., National Science Foundation, \$226,935, "TWC: Small: Abstract Semantic Processing for Script Security."

Singh, Gurdip, Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Advanced Manufacturing Institute), **Schulz, Noel N.** (Engineering Experiment Station), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Singh, Gurdip, DeLoach, Scott A., Hatcliff, John M., Ou, Xinming (Simon), and Vasserman, Eugene, National Science Foundation, "Building the National Cyber Workforce: New SFS Program at Kansas State University."

Singh, Gurdip, Andresen, Daniel A., Neilsen, Mitchell L., Spears, Jacqueline D. (Dean of Education), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Design and Sensor Technology in Education."

Vasserman, Eugene, DeLoach, Scott A., Hatcliff, John M., Ou, Xinming (Simon), and Singh, Gurdip, National Science Foundation, "Building the National Cyber Workforce: New SFS Program at Kansas State University."

Vasserman, Eugene, National Science Foundation, \$70,283, "CAREER: Safety and Security for Next-generation World-scale Real-time Medical Systems."

Vasserman, Eugene, Chalin, Patrice, Hatcliff, John M., and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, "CPS: Synergy: Collaborative Research: Trustworthy Composition of Dynamic App-Centric Architectures for Medical Application Platforms."

Vasserman, Eugene, and Brase, Gary (Psychological Sciences), National Science Foundation, \$148,825, "EAGER: Education-optional Security Usability on the Internet."

Vasserman, Eugene, Andresen, Daniel A., and Hatcliff, John M., National Science Foundation, \$482,125, "TWC TTP: Small: Security, Privacy, and Trust for Systems of Coordinating Medical Devices."

Vasserman, Eugene, Andresen, Daniel A., Chalin, Patrice, 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."

DEAN OF ENGINEERING

Clark, Gary A., Edgar, James H. (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Industrial and Manufacturing Systems Engineering), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, \$7,000,000, "University Engineering Initiative Act (UEIA)."

English, John R., Kansas State University Foundation, "Professor Research Support."

Larson, Nancy J., Multi-Sponsor, \$4,919, "KINEX Multi-Sponsor."

Snead, Bruce C., Carter, David A. (Kansas Industrial Extension Services), and **Miller, Ruth D.** (Electrical and Computer Engineering), US Department of Energy, \$21,500, "Small-Business Renewable-Energy Site Assessments."

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), Kansas Soybean Commission, \$19,162, "Optimization of Dihydroxylized Soybean Oil (DSO) Derivatives for Pressure Sensitive Adhesives."

ELECTRICAL AND COMPUTER ENGINEERING

Day, Dwight D., Barstow, Thomas J. (Kinesiology OLD), **Gruenbacher, Don M., Kuhn, William B., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, Kansas Board of Regents, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Day, Dwight D., Barstow, Thomas J. (Kinesiology OLD), **Gruenbacher, Don M., Kuhn, William B., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, National Aeronautics and Space Administration, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Day, Dwight D., Sandia National Laboratories, \$24,045, "Advanced, Low Power, High Performance Processor Technology Research."

Dyer, Stephen A., and Burrack, Frederick (Assessment and Program Review), National Science Foundation, \$14,421, "Music, Signals & Systems: A Multi-Campus, Cross- Disciplinary Proposal for Inclusive General Education."

Gruenbacher, Don M., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Kuhn, William B., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, Kansas Board of Regents, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Gruenbacher, Don M., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Advanced Manufacturing Institute), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Gruenbacher, Don M., and Schulz, Noel N., Kansas State University Foundation, "Power Affiliates."

Gruenbacher, Don M., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Kuhn, William B., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, National Aeronautics and Space Administration, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Gruenbacher, Don M., Schulz, Noel N., and Soldan, David L., National Science Foundation, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."

Kuhn, William B., Honeywell Federal Manufacturing & Technologies, LLC, \$19,382, "Electrical Test/Characterization of Thin-Film Capacitors."

Kuhn, William B., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, Kansas Board of Regents, \$15,750, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Kuhn, William B., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Natarajan, Balasubramaniam, Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, National Aeronautics and Space Administration, \$187,984, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-

duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Kuhn, William B., Sandia National Laboratories, \$71,812, "Phase V Research and Development at Kansas State University."

Kuhn, William B., US Department of Energy, \$12,867, "Advanced Thin Films on LTCC."

Kuhn, William B., US Department of Energy, \$675, "High Frequency Characterization of Thin Film Metals on Low Temperature Co-Fired Ceramic (LTCC)."

Kuhn, William B., US Department of Energy, \$65,820, "High Frequency Characterization of Thin Film Metals on Low Temperature Co-fired Ceramic (LTCC)."

Kuhn, William B., US Department of Energy, \$17,448, "Thin Film Hermetic Sealing and Compatibility for Ag TKN Paste."

Miller, Ruth D., Spaulding, Gregory L. (Mechanical and Nuclear Engineering), and **Wang, Youqi** (Mechanical and Nuclear Engineering), National Renewable Energy Laboratory, \$5,984, "Kansas State University Wind Turbine Design Team."

Miller, Ruth D., Pahwa, Anil, and **Starrett, Shelli K.**, National Science Foundation, "Student Travel Support for the 2013 North American Power Symposium."

Miller, Ruth D., Carter, David A. (Kansas Industrial Extension Services), and **Snead, Bruce C.** (Kansas Industrial Extension Services), US Department of Energy, "Small-Business Renewable-Energy Site Assessments."

Natarajan, Balasubramaniam, Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Kuhn, William B., Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, Kansas Board of Regents, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Natarajan, Balasubramaniam, Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Kuhn, William B., Sobering, Timothy J.** (Vice President Electronics Design Laboratory), and **Warren, Steven**, National Aeronautics and Space Administration, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Natarajan, Balasubramaniam, and **Garrett, Karen A.** (Plant Pathology), The CGIAR Fund, \$8,400, "A Framework for Evaluating EWS/DSS for Pests and Diseases."

Pahwa, Anil, and Erickson, Larry E. (Center for Hazardous Substance Research), Black & Veatch Corporation, \$20,000, "Building a World of Difference with Solar Powered Charge Stations for Electric Vehicles."

Pahwa, Anil, Miller, Ruth D., and Starrett, Shelli K., National Science Foundation, \$12,000, "Student Travel Support for the 2013 North American Power Symposium."

Schulz, Noel N., and Gruenbacher, Don M., Kansas State University Foundation, \$19,931, "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., Garrett, Karen A. (Plant Pathology), and **Phillips, Thomas W.** (Entomology), CRC Plant Biosecurity, \$11,297, "Ecology of Sitophilus and Cryptolestes Species."

Snead, Bruce C., Carter, David A. (Kansas Industrial Extension Services), and **Miller, Ruth D.,** US Department of Energy, \$21,500, "Small-Business Renewable-Energy Site Assessments."

Soldan, David L., Gruenbacher, Don M., and Schulz, Noel N., National Science Foundation, \$22,875, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."

Starrett, Shelli K., Miller, Ruth D., and Pahwa, Anil, National Science Foundation, "Student Travel Support for the 2013 North American Power Symposium."

Warren, Steven, Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Kuhn, William B., Natarajan, Balasubramaniam,** and **Sobering, Timothy J.** (Vice President Electronics Design Laboratory), Kansas Board of Regents, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Warren, Steven, Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D., Gruenbacher, Don M., Kuhn, William B., Natarajan, Balasubramaniam,** and **Sobering, Timothy J.** (Vice President Electronics Design Laboratory), NationalAeronautics and Space Administration, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Warren, Steven, Barstow, Thomas J. (Kinesiology OLD), and **Schinstock, Dale E.** (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, \$74,810, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

Warren, Steven, Bartle, Steven J. (Clinical Sciences), **Dikeman, Michael E.** (Animal Sciences and Industry), **Gonzalez, John M.** (Animal Sciences and Industry), **Hulbert, Lindsey E.** (Animal Sciences and Industry), **Olson, K C** (Animal Sciences and Industry), **Reinhardt, Christopher D.** (Animal Sciences and Industry), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **Thomson, Daniel U.** (Clinical Sciences), National Cattlemen's Beef Association, \$25,394, "Animal Health and Animal Welfare Implications of Beta Adrenergic Agonists (BAA) in Feedlot Cattle."

Warren, Steven, Chalin, Patrice (Computing and Information Sciences), **Hatcliff, John M.** (Computing and Information Sciences), and **Vasserman, Eugene** (Computing and Information Sciences), National Science Foundation, \$202,400, "CPS: Synergy: Collaborative Research: Trustworthy Composition of Dynamic App-Centric Architectures for Medical Application Platforms."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), **Chalin, Patrice** (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, \$20,000, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

ENGINEERING EXPERIMENT STATION

Jones, Byron W., and **Eckels, Steven J.** (Institute for Environmental Research), US Department of Transportation, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

Schulz, Noel N., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Industrial and Manufacturing Systems Engineering), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

Ben-Arieh, David H., Children's Mercy Hospital, \$46,472, "Predictive Scheduling Model."

Ben-Arieh, David H., and **Wu, Chih-Hang,** Mercy Regional Health Center, Inc., \$7,638, "Improving Process Flow at the Mercy ED."

Ben-Arieh, David H., and **Rys, Malgorzata J.,** US Department of Veterans Affairs, "Operating Room IT Evaluation."

Ben-Arieh, David H., Chang, Shing I., and **Douglas-Mankin, Kimberly D.,** US Department of Veterans Affairs, "Project 12.1.2. Creating Distance Learning Lean Training Exercise."

Ben-Arieh, David H., Via Christi Regional Medical Center, Inc., \$96,017, "Modeling Core Processes at Mercy Regional Manhattan and Wamego Campuses."

Chang, Shing I., Boguski, Terrie K. (Center for Hazardous Substance Research), **Sun, X. Susan** (Grain Science and Industry), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Agriculture, \$228,552, "Enhancing the Economic Viability of Camelina as a Bio-Feedstock: Optimization and Demonstration of the Production System and Bioproduct Development."

Chang, Shing I., Ben-Arieh, David H., and **Douglas-Mankin, Kimberly D.**, US Department of Veterans Affairs, "Project 12.1.2. Creating Distance Learning Lean Training Exercise."

Deines, Timothy W., and **Kramer, Bradley A.**, National Science Foundation, "Collaborative Research: Development of a Sophomore-Level Course "Introduction of Renewable Energy Manufacturing" and Faculty Expertise."

Douglas-Mankin, Kimberly D., Ben-Arieh, David H., and **Chang, Shing I.**, US Department of Veterans Affairs, \$65,398, "Project 12.1.2. Creating Distance Learning Lean Training Exercise."

Easton, Todd W., Navajo Nation Oil and Gas Company, \$15,000, "Optimizing Energy Planning for Navajo Nation Oil and Gas Company."

Easton, Todd W., Spirit AeroSystems, Inc., \$6,000, "Optimizing Crane Usage at Spirit AeroSystems."

Easton, Todd W., US Department of Defense, \$53,669, "Part-Time M.S. Program in Industrial Engineering - Spring 2013."

Easton, Todd W., US Department of Defense, \$76,675, "Part-time MS Program in Operations Research - Fall 2012."

Heier Stamm, Jessica L., National Science Foundation, \$174,998, "BRIGE: Understanding and Managing Humanitarian Logistics Systems through Advances in Optimization and Game Theory."

Kramer, Bradley A., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Fenton, Donald L.** (Mechanical and Nuclear Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Kramer, Bradley A., and Deines, Timothy W., National Science Foundation, \$88,412, "Collaborative Research: Development of a Sophomore-Level Course "Introduction of Renewable Energy Manufacturing" and Faculty Expertise."

Kramer, Bradley A., National Science Foundation, \$12,000, "Collaborative Research: Fundamental Research on Titanium Drilling with Rotary Ultrasonic Machining."

Kramer, Bradley A., and Wang, Donghai (Biological and Agricultural Engineering), National Science Foundation, \$6,000, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

Kramer, Bradley A., National Science Foundation, \$20,970, "Workshop/Collaborative Research: 2013 CAREER Proposal Writing Workshop."

Pei, Zhijian, National Science Foundation, \$219,726, "National Science Foundation - Intergovernmental Personnel Act."

Rys, Malgorzata J., and Russell, Eugene R. (Civil Engineering), Kansas Department of Transportation, \$39,500, "A Study to Mitigate Rural and Urban High-Speed Horizontal Curve Crashes in Kansas."

Rys, Malgorzata J., and Ben-Arieh, David H., US Department of Veterans Affairs, \$19,990, "Operating Room IT Evaluation."

Wu, Chih-Hang, and Ben-Arieh, David H., Mercy Regional Health Center, Inc., "Improving Process Flow at the Mercy ED."

Wu, Chih-Hang, Beck, B. Terry (Mechanical and Nuclear Engineering), and **Peterman, Robert J.** (Civil Engineering), US Department of Transportation, \$153,236, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven J., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), Am. Soc. Heating, Refrigerating & Air-Cond Engineers, Inc., \$116,864, "1556TRP, Characterization of Liquid Refrigerant Flow Emerging from a Flooded Evaporator Tube Bundle."

Eckels, Steven J., Hemlock Semiconductor Corporation, \$30,000, "Heat Exchange Fluid Replacement Project for Hemlock Semiconductor Corporation and its Affiliates."

Eckels, Steven J., and McCullough, Elizabeth A., US Department of Defense, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

Eckels, Steven J., and Jones, Byron W., US Department of Transportation, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

Jones, Byron W., and Eckels, Steven J., US Department of Transportation, \$59,914, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

McCullough, Elizabeth A., and Eckels, Steven J., US Department of Defense, \$4,200, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

KANSAS INDUSTRIAL EXTENSION SERVICES

Carter, David A., Miller, Ruth D. (Electrical and Computer Engineering), and **Snead, Bruce C.,** US Department of Energy, "Small-Business Renewable-Energy Site Assessments."

Carter, David A., and Larson, Nancy J., US Environmental Protection Agency, "Kansas Pollution Prevention Grants - 2012 (P2)."

Hanson, Brian R., and Snead, Bruce C., US Environmental Protection Agency, "National Radon Program Services."

Hanson, Brian R., and Snead, Bruce C., US Environmental Protection Agency, "Radon Projects for Kansas."

Larson, Nancy J., Kansas Department of Health and Environment, \$231,000, "Small Business Environmental Assistance Program 2013."

Larson, Nancy J., Kansas Department of Health and Environment, \$229,000, "Small Business Environmental Assistance Program 2014."

Larson, Nancy J., Multi-Sponsor, \$9,987, "KINEX Multi-Sponsor."

Larson, Nancy J., and Carter, David A., US Environmental Protection Agency, \$140,105, "Kansas Pollution Prevention Grants - 2012 (P2)."

Snead, Bruce C., Carter, David A., and Miller, Ruth D. (Electrical and Computer Engineering), US Department of Energy, "Small-Business Renewable-Energy Site Assessments."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, \$39,445, "National Radon Program Services."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, \$150,000, "National Radon Program Services."

Snead, Bruce C., US Environmental Protection Agency, \$2,500, "National Radon-Focused Risk Reduction Training Program."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, \$192,041 (includes \$68,000 from Participant / 3rd Party Cost Share), "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, \$10,000, "Radon Training and Demonstration."

Snead, Bruce C., US Environmental Protection Agency, \$150, "Regional Radon Training Center."

MECHANICAL AND NUCLEAR ENGINEERING

Beck, B. Terry, Peterman, Robert J. (Civil Engineering), and **Wu, ChihHang** (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$153,236, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

Cai, Liang-Wu, National Aeronautics and Space Administration, \$39,337, "Acoustically Tailored Composite Rotocraft Fuselage Panels."

Fenton, Donald L., Clark, Gary A. (Dean of Engineering), **Edgar, James H.** (Chemical Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Kramer, Bradley A.** (Advanced Manufacturing Institute), **Schulz, Noel N.** (Engineering Experiment Station), **Singh, Gurdip** (Computing and Information Sciences), **Stokes, Robert W.** (Civil Engineering), and **Yunk, Raphael A.** (Architectural Engineering and Construction Science), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Geuther, Jeffrey A., National Aeronautics and Space Administration, \$17,101, "Economical Production of Pu-238."

Geuther, Jeffrey A., US Department of Energy, \$136,470, "Reactor Infrastructure Improvement at the Kansas State University Reactor."

Geuther, Jeffrey A., and **Edgar, James H.** (Chemical Engineering), US Department of Homeland Security, \$74,479, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."

Hosni, Mohammad H., and **Eckels, Steven J.** (Institute for Environmental Research), Am. Soc. Heating, Refrigerating & Air-Cond Engineers, Inc., \$60,203, "1556-TRP, Characterization of Liquid Refrigerant Flow Emerging from a Flooded Evaporator Tube Bundle."

Lease, Kevin B., National Aeronautics and Space Administration, \$25,000, "Cure Management for Bonded Composite Repair."

McGregor, Douglas S., Schlumberger Technology Corporation, \$30,000, "SIC Materials for Neutron Detectors."

McGregor, Douglas S., US Department of Defense, \$18,000, "Investigation of Neutron Detection and Spectrometry."

McGregor, Douglas S., US Department of Defense, \$582,406, "Microstructured Semiconductor Neutron Detector."

McGregor, Douglas S., US Department of Defense, \$384,442, "Replacement Technology for ³He-Gas Filled Neutron Detectors."

McGregor, Douglas S., US Department of Energy, \$11,000, "Neutron Detectors."

McGregor, Douglas S., and **Shultis, J. Kenneth**, US Department of Energy, \$64,139, "Technical Assistance on Compact Fission Chamber Development."

McGregor, Douglas S., US Navy, \$140,000, "High Efficiency Solid State Neutron Detector."

Schinstock, Dale E., and **Thompson, J. Garth**, National Aeronautics and Space Administration, "Building Collaborations Around New Aircraft Guidance and Control Approaches that Enable Autonomy in Air Traffic Management and Control."

Schinstock, Dale E., **Barstow, Thomas J.** (Kinesiology OLD), and **Warren, Steven** (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$49,873, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

Shultis, J. Kenneth, and **McGregor, Douglas S.**, US Department of Energy, "Technical Assistance on Compact Fission Chamber Development."

Spaulding, Gregory L., **Miller, Ruth D.** (Electrical and Computer Engineering), and **Wang, Youqi**, National Renewable Energy Laboratory, "Kansas State University Wind Turbine Design Team."

Thompson, J. Garth, and **Schinstock, Dale E.**, National Aeronautics and Space Administration, \$22,000, "Building Collaborations Around New Aircraft Guidance and Control Approaches that Enable Autonomy in Air Traffic Management and Control."

Thompson, J. Garth, US Department of Energy, \$19,500, "Senior Design Project Bearing Run-In Machine."

Wang, Youqi, **Miller, Ruth D.** (Electrical and Computer Engineering), and **Spaulding, Gregory L.**, National Renewable Energy Laboratory, \$1,995, "Kansas State University Wind Turbine Design Team."

Wang, Youqi, US Department of Defense, \$200,000, "Ballistic Strength and Optimal Design of Single and Multi-Layer 3-D Fabrics."

NATIONAL GAS MACHINERY LABORATORY

Jones, Byron W., and Lease, Kevin B., Pipeline Research Council International, Inc., "Minimizing Gas Compressor Lubricating Oil Consumption."

Jones, Byron W., Pipeline Research Council International, Inc., \$11,049, "The Role of Fuel Borne Metallic Catalysts in Inhibition of Nox Formation During the Combustion of Hydrocarbon."

Jones, Byron W., and Eckels, Steven J. (Institute for Environmental Research), US Department of Transportation, \$179,741, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

Lease, Kevin B., and Jones, Byron W., Pipeline Research Council International, Inc., \$10,359, "Minimizing Gas Compressor Lubricating Oil Consumption."

COLLEGE OF HUMAN ECOLOGY

APPAREL, TEXTILES, AND INTERIOR DESIGN

Anderson, Barbara G., Hiller Connell, Kim Y., and LeHew, Melody L. A., US Department of Agriculture, "Making Climate Change a Functioning Thread in the Baccalaureate Curriculum: Transforming Fiber, Textiles and Clothing Education."

Hiller Connell, Kim Y., Anderson, Barbara G., and LeHew, Melody L. A., US Department of Agriculture, "Making Climate Change a Functioning Thread in the Baccalaureate Curriculum: Transforming Fiber, Textiles and Clothing Education."

LeHew, Melody L. A., Anderson, Barbara G., and Hiller Connell, Kim Y., US Department of Agriculture, \$713,847, "Making Climate Change a Functioning Thread in the Baccalaureate Curriculum: Transforming Fiber, Textiles and Clothing Education."

DEAN OF HUMAN ECOLOGY

Doll, Gayle, and Kaup, Migette L., US Department of Health and Human Services, \$110,461, "PEAK 2.0 Evaluation."

HOSPITALITY MANAGEMENT AND DIETETICS

Roberts, Kevin R., Sauer, Kevin L., and Sneed, Jeannie, US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition, Impact of Food Safety Messages on the Food Handling Behaviors of Parents of Young Children."

Sauer, Kevin L., Roberts, Kevin R., and Sneed, Jeannie, US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition, Impact of Food Safety Messages on the Food Handling Behaviors of Parents of Young Children."

Sneed, Jeannie, Roberts, Kevin R., and Sauer, Kevin L., US Department of Agriculture, \$500,000, "Center of Excellence for Food Safety Research in Child Nutrition, Impact of Food Safety Messages on the Food Handling Behaviors of Parents of Young Children."

HUMAN NUTRITION

Adhikari, Koushik, National Cattlemen's Beef Association, \$21,000, "Collaborator II - Beef Flavor Attributes and Consumer Perception - Phase II."

Chambers IV, Edgar, National Cattlemen's Beef Association, \$39,000 (includes \$4,000 from Participant's), "Beef Flavor Workshop."

Chambers IV, Edgar, Sunchon National University Industry-Academic Cooperation Corps, \$68,395, "Development of Strategic Exportation of Functional Sauces for Korean Cuisine Globalization."

Chambers IV, Edgar, and **Chambers, Delores H.**, US Department of Agriculture, \$98,090, "Development and Evaluation of Science-Based Messages to Improve Consumers' Storage, Handling, and Preparation of Poultry and Poultry Products."

Chambers IV, Edgar, Alavi, Sajid (Grain Science and Industry), **Lilja, Nina** (International Agricultural Programs), **Lindshield, Brian L.**, and **Procter, Sandra B.**, US Department of Agriculture, "Novel Sorghum Based Fortified Food Blend for Infants and Young Children Nutrition."

Chambers, Delores H., and **Chambers IV, Edgar**, US Department of Agriculture, "Development and Evaluation of Science-Based Messages to Improve Consumers' Storage, Handling, and Preparation of Poultry and Poultry Products."

Haub, Mark D., and **Rosenkranz, Sara**, Penford Food Ingredients Co., \$26,255, "Novel Resistant Starch on Glucose and Insulin Response."

Linde, Annika, and **Melgarejo, L Tonatiuh**, Nestlé Purina PetCare Global Resources, Inc., "Advancing Canine Oral Health."

Lindshield, Brian L., Kansas State University Foundation, \$11,000, "Bio Tek Synergy Multifunction HT Plate Reader - Equipment Award."

Lindshield, Brian L., Alavi, Sajid (Grain Science and Industry), **Chambers IV, Edgar, Lilja, Nina** (International Agricultural Programs), and **Procter, Sandra B.**, US Department of Agriculture, \$1,131,253, "Novel Sorghum Based Fortified Food Blend for Infants and Young Children Nutrition."

Medeiros, Denis M., US Department of Health and Human Services, \$13,116, "Nucleotide-Mediated Foam Cell Formation in Smooth Muscle Cells (Fellowship - Tixieanna Dissmore)."

Melgarejo, L Tonatiuh, Kansas Bioscience Authority, \$151,210, "Treatment of Mastitis in Dairy Cattle Using the Water Buffalo Cathelicidin Peptide WBCATH-14."

Melgarejo, L Tonatiuh, and **Linde, Annika**, Nestlé Purina PetCare Global Resources, Inc., \$133,125, "Advancing Canine Oral Health."

Melgarejo, L Tonatiuh, Nestlé Purina PetCare Global Resources, Inc., \$20,000, "Equipment Grant-QIAcube Automated Spin-Column Purification System."

Mendoza, Bertha, Kansas Department for Children and Families, \$4,000, "Incredible Years Facilitation."

Procter, Sandra B., and **Peters, Paula** (Director of Cooperative Extension), US Department of Agriculture, "Kansas Food Assistance Nutrition Education Plan."

Procter, Sandra B., **Alavi, Sajid** (Grain Science and Industry), **Chambers IV, Edgar, Lilja, Nina** (International Agricultural Programs), and **Lindshield, Brian L.**, US Department of Agriculture, "Novel Sorghum Based Fortified Food Blend for Infants and Young Children Nutrition."

Rosenkranz, Sara, and **Haub, Mark D.**, Penford Food Ingredients Co., "Novel Resistant Starch on Glucose and Insulin Response."

KINESIOLOGY

Dzewaltowski, David A., United Methodist Health Ministry Fund, \$100,454, "A System for Obesity Prevention through Childcare: HOP'N Child Development Online."

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Anderson, Jared R., and **Stith, Sandra M.**, US Department of Agriculture, "KSU/USAF 2012 FAP Research Project."

DeLuccie, Mary L., US Department of Agriculture, \$10,600, "Federal Aid in Support of the Child and Adult Care Food Program."

Glasscock, Marlene K., US Department of Agriculture, \$363,636, "4-H Air Force Military Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, \$454,545, "4-H Military Partnerships: 4-H Army Youth Development Project."

Glasscock, Marlene K., US Department of Agriculture, \$440,789, "Children, Youth & Families at Risk 4-H Military Partnership Program."

Glasscock, Marlene K., US Department of Agriculture, \$1,000,000, "DoD-USDA Partnership: Child Youth Deployment Support Project."

Glasscock, Marlene K., US Department of Defense, \$1,120,773, "4-H Military Partnerships: 4-H/Navy Youth Development Project."

Glasscock, Marlene K., US Department of Defense, \$650,000, "Hired! Program Stipend - Child, Youth and School Services Army Youth-Development Projects."

Glasscock, Marlene K., US Department of Defense, \$28,218, "Operation: Military Kids (OMK) Bridge Contract."

Griffin, Charles L., Kansas Department for Children and Families, \$320,901, "DCF Fatherhood Project."

Griffin, Charles L., US Department of Health and Human Services, \$450,000, "Technical Support for DCF Strategic Development & Faith Based & Community Initiatives."

Johannes, Elaine M., US Department of Defense, \$41,825, "Kansas 2013 Operation: Military Kids (OMK)."

Kiss, D. Elizabeth, National Endowment for Financial Education, \$2,494, "High School Financial Planning Program."

O'Conner, Nancy T., US Department of Health and Human Services, \$245,372 (includes \$7,500 from third party match), "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

Schumm, Walter R., Witherspoon Institute, \$15,886, "Secondary Data Analysis of New Family Structures Study (NFSS)."

Sellers, Debra, US Department of Health and Human Services, \$25,000, "KansansOptimizing Health Program (KOHP) Integration to KSRE System."

Stith, Sandra M., and **Anderson, Jared R.**, US Department of Agriculture, \$1,128,336, "KSU/USAF 2012 FAP Research Project."

Webb, Farrell J., US Department of Health and Human Services, \$225,731, "Kansas Bridges to the Future."

COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Blecha, Frank, Richardson, Ralph C. (Dean of Veterinary Medical Center), and **Shi, Jishu N.**, Zoetis LLC, "International Veterinary Collaboration for China DVM Program."

Fong, Peying, American Heart Association, Midwest Affiliate, \$143,000, "CFTR Regulation of Thyroid Transport."

Kenney, Michael J., and **Davis, Elizabeth G.** (Clinical Sciences), Merial Limited, \$7,500, "2013 Merial Veterinary Scholars Program."

Kenney, Michael J., US Department of Health and Human Services, \$36,688, "BRITE Veterinary Student Program."

Kenney, Michael J., Davis, Elizabeth G. (Clinical Sciences), and **Nguyen, Thu A.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$16,857, "Short Term Training in Health Professional Schools."

Kenney, Michael J., and **Sang, Yongming**, US Department of Health and Human Services, \$318,005, "Sympathetic Neural Regulation and Aging: Medullary Mechanisms and Strategies."

Marcus, Daniel C., and **Wangemann, A. Philine**, US Department of Health and Human Services, "Fluid Transport in Inner Ear Development."

Monteiro-Riviere, Nancy A., Mars, Inc., \$524,956, "Alternative Methods for Ingredient Evaluation."

Monteiro-Riviere, Nancy A., US Environmental Protection Agency, \$37,000, "Dermal Toxicity Studies with Human Epidermal Keratinocytes - Titanium Dioxide."

Riviere, Jim, Federal Institute for Risk Assessment, \$7,500, "BSAI Determinations on NanoGEM Materials for BfR."

Riviere, Jim, and **Richardson, Ralph C.** (Dean of Veterinary Medical Center), Kansas Bioscience Authority, \$4,897,196, "Kansas Biosciences Eminent Scholar in Animal Health - Dr. Jim Riviere."

Riviere, Jim, US Department of Agriculture, \$192,000, "Food Animal Residue Avoidance Databank (FARAD) Program."

Sang, Yongming, and **Kenney, Michael J.**, US Department of Health and Human Services, "Sympathetic Neural Regulation and Aging: Medullary Mechanisms and Strategies."

Schultz, Bruce D., Chen, Jianhan (Biochemistry), and **Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$28,840, "Model Synthetic Channel Assemblies."

Schultz, Bruce D., and **Lillich, James D.** (Clinical Sciences), US Department of Health and Human Services, \$293,198, "Neuroendocrine-modulated Epithelial HCO₃-transport."

Shi, Jishu N., Ceva Sante Animale, \$120,000, "Efficacy Evaluation of a Ceva Vaccine for PRRS Virus."

Shi, Jishu N., US Department of Agriculture, \$10,000, "Rift Valley Fever - Experimental Vaccine Formulations - Adjuvants for Stable Modified-Live Vaccines and Subunit Vaccines."

Shi, Jishu N., Blecha, Frank, and **Richardson, Ralph C.** (Dean of Veterinary Medical Center), Zoetis LLC, "International Veterinary Collaboration for China DVM Program."

Tamura, Masaaki, US Department of Health and Human Services, \$52,000, "Nanoparticle-based Prevention of Malignant Cancer Metastasis."

Troyer, Deryl L., and **Bossmann, Stefan** (Chemistry), National Science Foundation, \$152,288, "Extending the Luminescence Lifetime in Breast Cancer Diagnostics."

Troyer, Deryl L., and **Bossmann, Stefan** (Chemistry), National Science Foundation, \$300,000, "INSPIRE: Neutrophil Delivery of Apoptosis-Inducing Anticancer Drugs."

Wangemann, A. Philine, and **Marcus, Daniel C.,** US Department of Health and Human Services, \$377,400, "Fluid Transport in Inner Ear Development."

Weiss, Mark L., Biological Industries Ltd, \$40,216, "Project 2: Isolation of Umbilical Cord MSCs in the Different Medium: (Startup, Expansion, (Growth), Flow Cytometry, Differentiation and CFU-F)."

Weiss, Mark L., Transposagen Biopharmaceuticals, \$24,207, "Project 4: Generate 20 F344 Clones with Transposon Gene Trap Insert, Produce Chimera and Breed to Show Germline Transmission."

Weiss, Mark L., University of Kansas Medical Center Research Institute, Inc., \$158,665, "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."

CLINICAL SCIENCES

Apley, Michael D., Larson, Robert L., Lubbers, Brian (Veterinary Diagnostic Laboratory), **Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Zoetis LLC, "Pilot Trials: Model Development for Determination of Potential Differences in Mannheimia Haemolytica Transmissibility."

Armbrust, Laura J., and **Grauer, Gregory F.**, Hill's Pet Nutrition, Inc., "Dietary Treatment of Feline Hyperthyroidism with Hills y/d - Effects on Renal Function, Lean Body Mass, and Thyroid Gland Tissue Architecture."

Bartle, Steven J., Dikeman, Michael E. (Animal Sciences and Industry), **Gonzalez, John M.** (Animal Sciences and Industry), **Hulbert, Lindsey E.** (Animal Sciences and Industry), **Olson, K C** (Animal Sciences and Industry), **Reinhardt, Christopher D.** (Animal Sciences and Industry), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Thomson, Daniel U.**, and **Warren, Steven** (Electrical and Computer Engineering), National Cattlemen's Beef Association, "Animal Health and Animal Welfare Implications of Beta Adrenergic Agonists (BAA) in Feedlot Cattle."

Davis, Elizabeth G., and **Kenney, Michael J.** (Anatomy and Physiology), Merial Limited, \$7,500, "2013 Merial Veterinary Scholars Program."

Davis, Elizabeth G., Kenney, Michael J. (Anatomy and Physiology), and **Nguyen, Thu A.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$16,361, "Short Term Training in Health Professional Schools."

Ferrer, Maria S., Miesner, Matt D., and **Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), Select Sires, \$17,464, "Effect of sperm-bound anti-sperm antibodies on function of bovine spermatozoa."

Gehring, Ronette, Evidence-Based Veterinary Medicine Association, \$1,500, "Conversion of Evidence Tables from the USP Drug Information Monographs into a Searchable, Web-enabled Database."

Grauer, Gregory F., and **Armbrust, Laura J.**, Hill's Pet Nutrition, Inc., \$76,921, "Dietary Treatment of Feline Hyperthyroidism with Hills y/d - Effects on Renal Function, Lean Body Mass, and Thyroid Gland Tissue Architecture."

Grauer, Gregory F., IDEXX Laboratories, Inc., \$24,975, "Part 2: Follow-up of Patients with Liver/kidney Abnormalities."

Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Merck & Company, Inc., "Zuprevo 18% Competitive 10-day Challenge Study."

Larson, Robert L., Apley, Michael D., Lubbers, Brian (Veterinary Diagnostic Laboratory), **Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Zoetis LLC, "Pilot Trials: Model Development for Determination of Potential Differences in Mannheimia Haemolytica Transmissibility."

Lillich, James D., and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$15,431, "Neuroendocrine-modulated Epithelial HCO₃transport."

Lillich, James D., US Department of Health and Human Services, \$333,000, "Novel Mechanisms of NSAID-induced GI Toxicity."

Miesner, Matt D., Ferrer, Maria S., and **Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), Select Sires, "Effect of sperm-bound anti-sperm antibodies on function of bovine spermatozoa."

Rankin, Amy, Bausch + Lomb, \$1,000, "Ophthalmology Conference & Wet Labs: Preserving Visual Health."

Roush, James K., American Kennel Club Canine Health Foundation, Inc., \$11,491, "Clinical Evaluation of Prolotherapy for Treatment of Osteoarthritis in Dogs."

Schermerhorn, Thomas, and **Davis, Elizabeth G.**, Morris Animal Foundation, \$4,000, "Mapping and Annotation of the Feline Hepatic GCKJ Promoter (Vet Student Scholar: Morgan Matile)."

Thomson, Daniel U., Kansas Beef Council, \$25,000, "Improving Food Safety, Antimicrobial Residue Avoidance and Animal Welfare in Beef Products through Strategic Beef Quality Assurance (BQA) and Animal Husbandry Training of Kansas Beef Producers."

Thomson, Daniel U., Bartle, Steven J., Dikeman, Michael E. (Animal Sciences and Industry), **Gonzalez, John M.** (Animal Sciences and Industry), **Hulbert, Lindsey E.** (Animal Sciences and Industry), **Olson, K C** (Animal Sciences and Industry), **Reinhardt, Christopher D.** (Animal Sciences and Industry), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Cattlemen's Beef Association, \$50,788, "Animal Health and Animal Welfare Implications of Beta Adrenergic Agonists (BAA) in Feedlot Cattle."

Thomson, Daniel U., Bai, Jianfa (Diagnostic Medicine/Pathobiology), **Ellis, Jason D.** (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvor G.** (Diagnostic Medicine/Pathobiology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), **Sanderson, Michael W.** (Diagnostic Medicine/Pathobiology), **Schroeder, Ted C.** (Agricultural Economics), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of

Agriculture, \$407,305, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

White, Bradley J., Larson, Robert L., and Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Merck & Company, Inc., \$96,347, "Zuprevo 18% Competitive 10-day Challenge Study."

White, Bradley J., Apley, Michael D., Larson, Robert L., Lubbers, Brian (Veterinary Diagnostic Laboratory), and **Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), Zoetis LLC, \$75,839, "Pilot Trials: Model Development for Determination of Potential Differences in Mannheimia Haemolytica Transmissibility."

DEAN OF VETERINARY MEDICAL CENTER

Richardson, Ralph C., and Riviere, Jim (Anatomy and Physiology), Kansas Bioscience Authority, "Kansas Biosciences Eminent Scholar in Animal Health - Dr. Jim Riviere."

Richardson, Ralph C., Blecha, Frank (Anatomy and Physiology), and **Shi, Jishu N.** (Anatomy and Physiology), Zoetis LLC, \$199,401, "International Veterinary Collaboration for China DVM Program."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

Anderson, Gary A., Nebraska, State of, \$25,000, "Nebraska Rabies."

Bai, Jianfa, National Pork Board, \$75,000, "Sequencing and Characterization of Genes Encoding Capsid Proteins VP4, VP6 and VP7 from Field Porcine Rotavirus Strains."

Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Nagaraja, Tiruvoor G., Narayanan, Sanjeevkumar, Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Cernicchiaro, Natalia, Nagaraja, Tiruvoor G., and Renter, David G., Pfizer, Inc., "Service Protocol Agreement: Variability in the Risk of Salmonella Lymph Node Carriage and the Efficacy of the Salmonella SRP Vaccine Against Lymph Node Carriage and Fecal Shedding of Salmonella in Harvested Fed Cattle."

Chang, Kyeong-Ok, and Hua, Duy H. (Chemistry), US Department of Health and Human Services, \$720,320, "Development of Novel Therapeutic Agents for Norovirus Infection."

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), DSM Nutritional Products AG, "The Effects MicroSource S on the Growth Performance and Fecal Consistency of Growing and Finishing Pigs fed Corn-soybean Meal-Based and Corn-DDGS-soybean Meal-based Diets, as well as the Pen Cleaning Time and Post-Cleaning Microbial Load after Barn Close-out."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Gonzalez, John 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), Eli Lilly & Company, "Effects of Source and Level of Zinc and Paylean on Growth Performance, Carcass Characteristics, and Gene Expression in Skeletal Muscle of Finishing Pigs."

Dritz, Steven S., DeRouchey, Joel M., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Micronutrients, \$25,000, "Intellibond C by Diet Formulation Strategy Barn Cleaning Trial."

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), Micronutrients, \$25,000, "Limiting SID Lysine in Diets Containing Intellibond C®."

Dritz, Steven S., Goodband, Danielle H. (Animal Sciences and Industry), **Nagaraja, Tiruvor G., Nelssen, Jim L.** (Animal Sciences and Industry), **Scott, Harvey M., and Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Alternatives to Antimicrobials? Effects on MRSA Prevalence in Swine Production System."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Gonzalez, John M.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), and **Unruh, John A.** (Animal Sciences and Industry), National Pork Board, "Influence of Salt Content and Iodine Value on Shelf Life of Bulk Aerobically Packaged Bacon Slices."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Reducing Feed Cost by Maximizing Dietary Byproduct Feeding Length Prior to Market."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Gonzalez, John 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), National Pork Board, "The Development of Equations to Predict the Iodine Value of Various Swine Carcass Fat Depots."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "The Effects of Increasing Niacin Supplementation on Growth Performance, and Pork Quality of Finished Pigs Raised in Seasonal Heat Stress."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Sioux Biochemicals, Inc., \$15,000, "Evaluation of Different Peptone Blend Levels for Nursery Pigs."

Dryden, Michael W., Bayer Corporation, \$148,419, "A comparative Laboratory Study of the Efficacy of the Seresto Collar against Fleas on Cats."

Dryden, Michael W., Intervet, Inc., \$100,280, "Evaluation of Activyl and Frontline Plus to control flea populations on naturally infested cats and dogs in private residences in Tampa FL 2013."

Ganta, Roman Reddy R., ABAXIS, Inc., \$156,905, "Clinical and Diagnostic Assessment of Ehrlichia and Anaplasma Species Infections in Dogs."

Ganta, Roman Reddy R., and **Govind, Revathi** (Biology), US Department of Health and Human Services, \$21,900, "Mentor for Revathi Govind Major Starter Grant: Roman Ganta."

Hardwidge, Philip R., US Department of Health and Human Services, \$158,452, "Bacterial Effector Inhibition of Type 1 Interferon."

Hardwidge, Philip R., US Department of Health and Human Services, \$375,000, "Bacterial Effectors Targeting the IKK/NF- κ B Pathway."

Hardwidge, Philip R., US Department of Health and Human Services, \$88,125, "Bacterial Effectors Targeting the IKK/NF- κ B Pathway."

Hardwidge, Philip R., US Department of Health and Human Services, \$66,659, "Delivery of a Bacterial Inhibitor of NF- κ B to Colon Tumors."

Hardwidge, Philip R., US Department of Health and Human Services, \$187,500, "Reverse Vaccinology of Enterotoxigenic E coli."

Hesse, Richard, Boehringer Ingelheim Vetmedica, Inc., \$10,000, "Student Assistantship - BVDV PI/TI Transmission in the feedlot: Mapping the 6-way CrossNeutralization Response of Naïve and Immune Cattle following PI Transmission and Subsequent TI Infection (Kelly Foster)."

Hesse, Richard, Ma, Wenjun, Morozov, Igor, and **Richt, Juergen**, Kansas Bioscience Authority, "Development of Vaccines and Diagnostics for Vaccines for Schmallenberg Virus."

Hesse, Richard, and Suddith, Andrew W. (Veterinary Diagnostic Laboratory), Merck & Company, Inc., \$497,500, "Memorandum of Agreement - Characterization of a Novel PCV2 Virus Isolated from a Vaccine Break."

Hesse, Richard, Anderson, Gary A. (Veterinary Diagnostic Laboratory), **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., Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Nagaraja, Tiruvloor G., Narayanan, Sanjeevkumar, Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Kastner, Justin J., and Nutsch, Abbey L. (Animal Sciences and Industry), US Department of Homeland Security, \$200,000, "Curricular, Experiential, and Skill-Development Education: Frontier's Enduring Food Defense and Border Security Career Development Program."

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, \$120,026, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

Kim, Yunjeong, Winn Feline Foundation, \$19,920, "In vivo Efficacy Study of Virus Protease Inhibitors against Feline Coronaviruses in a Mouse Model."

Ma, Wenjun, Avimex, \$43,808, "Memorandum of Agreement for Testing and Evaluation Services."

Ma, Wenjun, Hesse, Richard, Morozov, Igor, and Richt, Juergen, Kansas Bioscience Authority, "Development of Vaccines and Diagnostics for Vaccines for Schmallenberg Virus."

Ma, Wenjun, and Richt, Juergen, National Pork Board, \$70,402, "Development of Modified Live Attenuated Virus Vaccine Expressing Porcine IL-18."

Ma, Wenjun, Anderson, Gary A. (Veterinary Diagnostic Laboratory), **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)."

Morozov, Igor, Hesse, Richard, Ma, Wenjun, and Richt, Juergen, Kansas Bioscience Authority, "Development of Vaccines and Diagnostics for Vaccines for Schmallenberg Virus."

Mosier, Derek A., Larson, Robert L. (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), Merck & Company, Inc., "Zuprevo 18% Competitive 10-day Challenge Study."

Mosier, Derek A., Higgs, Stephen (Biosecurity Research Institute), and **Richt, Juergen**, US Department of Agriculture, \$713,517, "Curriculum and Teaching Enhancement for Diseases that Threaten Food Security."

Mosier, Derek A., Apley, Michael D. (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Lubbers, Brian** (Veterinary Diagnostic Laboratory), and **White, Bradley J.** (Clinical Sciences), Zoetis LLC, "Pilot Trials: Model Development for Determination of Potential Differences in Mannheimia Haemolytica Transmissibility."

Nagaraja, Tiruvoor G., Dritz, Steven S., Goodband, Danielle H. (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), **Scott, Harvey M.**, and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Alternatives to Antimicrobials? Effects on MRSA Prevalence in Swine Production System."

Nagaraja, Tiruvoor G., Cernicchiaro, Natalia, and **Renter, David G.**, Pfizer, Inc., "Service Protocol Agreement: Variability in the Risk of Salmonella Lymph Node Carriage and the Efficacy of the Salmonella SRP Vaccine Against Lymph Node Carriage and Fecal Shedding of Salmonella in Harvested Fed Cattle."

Nagaraja, Tiruvoor G., Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Narayanan, Sanjeevkumar, Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Nagaraja, Tiruvoor G., and **Rowland, Raymond R. R.**, US Department of Health and Human Services, \$13,949, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training (Career Development)."

Narayanan, Sanjeevkumar, Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Nagaraja, Tiruvoor G., Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Nguyen, Thu A., Davis, Elizabeth G. (Clinical Sciences), and **Kenney, Michael J.** (Anatomy and Physiology), US Department of Health and Human Services, \$16,361, "Short Term Training in Health Professional Schools."

Oberst, Richard D., Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Nagaraja, Tiruvoor G., Narayanan, Sanjeevkumar, Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Powell, Douglas A., Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Nagaraja, Tiruvoor G., Narayanan, Sanjeevkumar, Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Renter, David G., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Renter, David G., Bartle, Steven J. (Clinical Sciences), **Dikeman, Michael E.** (Animal Sciences and Industry), **Gonzalez, John M.** (Animal Sciences and Industry), **Hulbert, Lindsey E.** (Animal Sciences and Industry), **Olson, K C** (Animal Sciences and Industry), **Reinhardt, Christopher D.** (Animal Sciences and Industry), **Thomson, Daniel U.** (Clinical Sciences), and **Warren, Steven** (Electrical and Computer Engineering), National Cattlemen's Beef Association, "Animal Health and Animal Welfare Implications of Beta Adrenergic Agonists (BAA) in Feedlot Cattle."

Renter, David G., Cernicchiaro, Natalia, and **Nagaraja, Tiruvoor G.,** Pfizer, Inc., \$272,226, "Service Protocol Agreement: Variability in the Risk of Salmonella Lymph Node Carriage and the Efficacy of the Salmonella SRP Vaccine Against Lymph Node Carriage and Fecal Shedding of Salmonella in Harvested Fed Cattle."

Renter, David G., Bai, Jianfa, Ellis, Jason D. (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J., Nagaraja, Tiruvoor G., Narayanan, Sanjeevkumar, Oberst, Richard D., Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A., Sanderson, Michael W., Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Richt, Juergen, Hesse, Richard, Ma, Wenjun, and Morozov, Igor, Kansas Bioscience Authority, \$868,515, "Development of Vaccines and Diagnostics for Vaccines for Schmallenberg Virus."

Richt, Juergen, and Ma, Wenjun, National Pork Board, "Development of Modified Live Attenuated Virus Vaccine Expressing Porcine IL-18."

Richt, Juergen, Higgs, Stephen (Biosecurity Research Institute), and **Mosier, Derek A.**, US Department of Agriculture, "Curriculum and Teaching Enhancement for Diseases that Threaten Food Security."

Richt, Juergen, and Rowland, Raymond R. R., US Department of Agriculture, \$58,868, "DTRA African Swine Fever, ASF Vaccine & Diagnostic Development South African Visiting Scholar Program."

Richt, Juergen, US Department of Agriculture, \$165,969, "Evaluation of Recombinant Replication-defective Adenoviruses which Induce Anti-viral Activity in Cattle."

Richt, Juergen, US Department of Health and Human Services, \$619,871, "NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS)."

Richt, Juergen, US Department of Health and Human Services, \$649,860, "Pathogenesis, Transmission and Detection of Zoonotic Prion Diseases."

Richt, Juergen, Anderson, Gary A. (Veterinary Diagnostic Laboratory), **Hesse, Richard, Ma, Wenjun, Rowland, Raymond R. R.**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, \$1,922,344, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

Richt, Juergen, and Higgs, Stephen (Biosecurity Research Institute), US Department of Homeland Security, \$74,499, "Graduate Student Fellowship for Jolene Carlson."

Richt, Juergen, and Li, Jun (Chemistry), US Department of Homeland Security, \$100,000, "Portable Smart Platforms for Detection of Biological Pathogens and Chemicals."

Rowland, Raymond R. R., National Pork Board, \$64,000, "Characterization of the Neutralizing Antibody Responses to PRRSV and Association with Host Factors."

Rowland, Raymond R. R., National Pork Board, \$13,440, "The Effects of PRRSV Infection of Commercial Pigs on Growth Performance, Energy, and Nutrient Digestibility."

Rowland, Raymond R. R., and **Richt, Juergen**, US Department of Agriculture, "DTRA African Swine Fever, ASF Vaccine & Diagnostic Development South African Visiting Scholar Program."

Rowland, Raymond R. R., US Department of Agriculture, \$303,629, "Genetically Improving Resistance of Pigs to PRRS Virus Infection."

Rowland, Raymond R. R., and **Nagaraja, Tiruvoor G.**, US Department of Health and Human Services, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training (Career Development)."

Rowland, Raymond R. R., **Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **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)."

Rowland, Raymond R. R., US Department of Homeland Security, \$170,348, "Development of a Fluorescent Microsphere Immunoassay Platform for Diagnosis and Surveillance of Rift Valley Fever in Ruminants."

Sanderson, Michael W., **Bai, Jianfa**, **Ellis, Jason D.** (Communications), **Fox, John A.** (Agricultural Economics), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.**, **Nagaraja, Tiruvoor G.**, **Narayanan, Sanjeevkumar**, **Oberst, Richard D.**, **Phebus, Randall K.** (Animal Sciences and Industry), **Powell, Douglas A.**, **Renter, David G.**, **Schroeder, Ted C.** (Agricultural Economics), **Thomson, Daniel U.** (Clinical Sciences), **Tonsor, Glynn** (Agricultural Economics), and **Zurek, Ludek** (Entomology), US Department of Agriculture, \$1,147,860, "Shiga-toxigenic Escherichia coli (STEC) in the Beef Chain: Assessing and Mitigating the Risk by Translational Science, Education and Outreach."

Sanderson, Michael W., US Department of Homeland Security, \$10,820, "Graduate Student Fellowship for Sara McReynolds."

Scott, Harvey M., **Dritz, Steven S.**, **Goodband, Danielle H.** (Animal Sciences and Industry), **Nagaraja, Tiruvoor G.**, **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, \$99,950, "Alternatives to Antimicrobials? Effects on MRSA Prevalence in Swine Production System."

Scott, Harvey M., US Department of Agriculture, \$20,000, "Foodborne Hazard Associated with an Emerging Campylobacter Jejuni Clone in Ruminants."

Scott, Harvey M., US Department of Agriculture, \$40,000, "Pilot Testing Project for Animal NARMS Sampling."

Wilkerson, Melinda, **Ferrer, Maria S.** (Clinical Sciences), and **Miesner, Matt D.** (Clinical Sciences), Select Sires, "Effect of sperm-bound anti-sperm antibodies on function of bovine spermatozoa."

VETERINARY DIAGNOSTIC LABORATORY

Anderson, Gary A., US Department of Agriculture, \$31,000, "NAHLN: KS."

Anderson, Gary A., US Department of Agriculture, \$3,630, "Pseudorabies Surveillance."

Anderson, Gary A., US Department of Agriculture, \$12,245, "Swine Surveillance."

Anderson, Gary A., 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)."

Hanlon, Cathleen A., Pfizer, Inc., \$47,557, "Service Protocol Agreement: Evaluation of the 1 Year Duration of Immunity of the WNV Innovator VEWT + Rabies Vaccine - Rabies Challenge (Addendum to MSA Exhibit A-12)."

Hanlon, Cathleen A., Pfizer, Inc., \$71,335, "Service Protocol Agreement: Evaluation of the 2 Year Duration of Immunity of the WNV Innovator VEWT + Rabies Vaccine - Rabies Challenge (Addendum to MSA Exhibit A-11)."

Hanlon, Cathleen A., Pfizer, Inc., \$28,655, "Service Protocol Agreement: Quantitation of Rabies Virus Neutralizing Antibody (RVNA) levels in Feline Serum by the Rapid Fluorescent Focus Inhibition Test (RFFIT) per Kansas State University SOP (Pfizer Master Agreement Exhibit A-14)."

Hanlon, Cathleen A., Pfizer, Inc., \$37,453, "Service Protocol Agreement: Quantitation of Rabies Virus Neutralizing Antibody (RVNA) Levels in Feline Serum by the Rapid Fluorescent Focus Inhibition Test (RFFIT) per Kansas State University Rabies Laboratory SOP (Pfizer Master Agreement Exhibit A-13)."

Lubbers, Brian, Apley, Michael D. (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), **Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.** (Clinical Sciences), Zoetis LLC, "Pilot Trials: Model Development for Determination of Potential Differences in Mannheimia Haemolytica Transmissibility."

Suddith, Andrew W., and **Hesse, Richard** (Diagnostic Medicine/Pathobiology), Merck & Company, Inc., "Memorandum of Agreement - Characterization of a Novel PCV2 Virus Isolated from a Vaccine Break."

VETERINARY MEDICAL TEACHING HOSPITAL

Fingland, Roger B., Friends of the Sunset Zoo, \$2,000, "Sunset Zoo Internship Program."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES

Hadley, Gregg L., US Department of Agriculture, \$414,001, "Kansas Agricultural Mediation Service."

Hadley, Gregg L., and **Ebert, Kerri L.** (Biological and Agricultural Engineering), US Department of Agriculture, \$32,750, "Kansas SARE - Kansas 2013 State PDP Chapter 3 Program."

Hadley, Gregg L., US Department of Agriculture, \$46,267, "Renewable Resources Extension Act Program (RREA Formula Funds)."

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, \$10,609, "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."

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

COUNTY AGENTS - METROPOLITAN SECTOR

Maass, Sarah E., and **Gerhard, Gary W.** (Four-H Youth Development), Philips Electronics North America Corporation, "Philips 4-H Science Project."

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 Program for Kansas."

DIRECTOR OF COOPERATIVE EXTENSION

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., \$139,650, "Kansas Agriculture and Rural Leadership, Inc.."

Miller, Frannie 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), **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."

Peters, Paula, and Floros, John D. (Dean of Agriculture and Director of AES), University of Missouri, \$60,625, "Memorandum of Agreement."

Peters, Paula, and Procter, Sandra B. (Human Nutrition), US Department of Agriculture, "Kansas Food Assistance Nutrition Education Plan."

Peters, Paula, US Department of Agriculture, \$175,400, "Military Life Skills Education Program at Ft. Riley, Kansas."

EXTENSION FAMILY AND CONSUMER SCIENCES

Peters, Paula, and **Procter, Sandra B.** (Human Nutrition), US Department of Agriculture, \$1,757,763, "Kansas Food Assistance Nutrition Education Plan."

FOUR-H YOUTH DEVELOPMENT

Gerhard, Gary W., National 4-H Council, \$39,000, "Cargill 4-H Food Science Initiative."

Gerhard, Gary W., and **Stone, Barbara J.**, National 4-H Council, "Kansas 4-H and Invest An Acre."

Gerhard, Gary W., and **Maass, Sarah E.** (County Agents - Metropolitan Sector), Philips Electronics North America Corporation, \$10,000, "Philips 4-H Science Project."

Gerhard, Gary W., and **Hecht, Elizabeth V.**, US Department of Agriculture, \$3,500, "4-H and Fish and Wildlife Service GIS Mapping Project."

Gerhard, Gary W., US Department of Agriculture, \$120,000, "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."

Hecht, Elizabeth V., and **Gerhard, Gary W.**, US Department of Agriculture, "4-H and Fish and Wildlife Service GIS Mapping Project."

Keatley, Sarah L., and **Stone, Barbara J.**, National 4-H Council, "2013 4-H Agricultural Science "Commodity Carnival" Learning Experience."

Stone, Barbara J., and **Keatley, Sarah L.**, National 4-H Council, \$10,000, "2013 4-H Agricultural Science "Commodity Carnival" Learning Experience."

Stone, Barbara J., and **Wiebers, Justin A.**, National 4-H Council, \$85,867, "Contract between Kansas State University and National 4-H Council (Contractor is Justin Wiebers)."

Stone, Barbara J., and **Gerhard, Gary W.**, National 4-H Council, \$40,000, "Kansas 4-H and Invest An Acre."

Wiebers, Justin A., and **Stone, Barbara J.**, National 4-H Council, "Contract between Kansas State University and National 4-H Council (Contractor is Justin Wiebers)."

KANSAS FOREST SERVICE

Atchison, Robert L., US Department of Agriculture, \$10,000, "NASF/CWSF Forest Action Plan."

Atchison, Robert L., US Department of Agriculture, \$118,275, "NRCS Technical Service Provider."

Beck, William J., Kansas Department of Agriculture, \$97,746, "Riparian Forest Buffer Restoration IV."

Beck, William J., and **Biles, Larry E.**, US Environmental Protection Agency, "Riparian Forest Management Technical Assistance."

Biles, Larry E., Kansas Prescribed Fire Council, Inc., \$40,000, "Kansas Prescribed Fire Coordinator."

Biles, Larry E., US Department of Agriculture, \$2,917, "Conservation Reserve Program 2012."

Biles, Larry E., US Department of Agriculture, \$106,029, "Consolidated Payment Grant 2012."

Biles, Larry E., and **Beck, William J.**, US Environmental Protection Agency, \$46,000, "Riparian Forest Management Technical Assistance."

NORTHEAST AREA OFFICE

Duncan, Stewart R., Multi-Sponsor, \$10,235, "Crop and Soils Multisponsor Programs."

NORTHWEST AREA OFFICE

Miller, Frannie 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), **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."

O'Brien, Daniel M., **Lamm, Freddie R.** (Northwest Research Extension Center), and **Rogers, Danny H.** (Biological and Agricultural Engineering), Kansas Corn Commission, "Irrigated Corn Yield in Producer's Fields as Affected by Management and Location."

O'Brien, Daniel M., and **Lamm, Freddie R.** (Northwest Research Extension Center), Kansas Corn Commission, "Yield of Two Hybrid Maturities as Affected by Management Allowed Depletion Level."

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."

SOUTHEAST AREA OFFICE

Shoup, Douglas E., Holman, Johnathon D. (Southwest Research Extension Center), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Grain Sorghum Commission, "Effect of Manure, Iron, and Zinc Application Methods on Grain Sorghum."

Shoup, Douglas E., Adee, Eric A. (Agronomy), **Nelson, Randall** (Agronomy), and **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), Kansas Soybean Commission, "Evaluation of Micronutrients for High Yield Soybean Production Using Small Plot and Strip Trial Research."

Shoup, Douglas E., Multi-Sponsor, \$9,800, "Weed Science Research at Southeast Area Extension Office."

Shoup, Douglas E., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Middendorf, Gerad D.** (Sociology, Anthropology, and Social Work), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), **Shroyer, James P.** (Agronomy), **Swamy, Aavudai Anandhi** (Agronomy), **Tomlinson, Peter J.** (Agronomy), and **Waggoner, Justin** (Southwest Area Office), US Department of Agriculture, \$22,899, "Resilience and Vulnerability of Beef Cattle Production in the Southern Great Plains under Changing Climate, Land Use and Markets."

SOUTHWEST AREA OFFICE

Dumler, Troy, Adee, Eric A. (Agronomy), **Nelson, John R.** (Agronomy), **Roozeboom, Kraig L.** (Agronomy), and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Corn Commission, "Irrigation Management of Emerging Drought- Tolerant Corn Hybrids."

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 Rsrce 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, \$763, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Waggoner, Justin, Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Middendorf, Gerad D.** (Sociology, Anthropology, and Social Work), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), **Shoup, Douglas E.** (Southeast Area Office), **Shroyer, James P.** (Agronomy), **Swamy, Aavudai Anandhi** (Agronomy), and **Tomlinson, Peter J.** (Agronomy), US Department of Agriculture, \$22,899, "Resilience and Vulnerability of Beef Cattle Production in the Southern Great Plains under Changing Climate, Land Use and Markets."

OFFICE OF THE PROVOST

ASSESSMENT AND PROGRAM REVIEW

Burrack, Frederick, and Dyer, Stephen A. (Electrical and Computer Engineering), National Science Foundation, \$14,421, "Music, Signals & Systems: A Multi- Campus, Cross-Disciplinary Proposal for Inclusive General Education."

CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT

Steichen, Ethel M., Heartland Foundation, \$8,000, "Healthy Eating, Active Living Project (HEAL)."

Steichen, Ethel M., Heartland Foundation, \$93,648, "Heartland Foundation Evaluation Continuation."

DEAN OF CONTINUING EDUCATION

Maes, Sue C., Ministry of Education, Ecuador, \$15,871,917, "Go Teacher Program."

DEAN OF GRADUATE SCHOOL

Lease, Kevin B., National Aeronautics and Space Administration, \$6,000, "Competitive Programs: Research Experience: Taylor Fetrow Internship - NASA Goddard 2013."

Lease, Kevin B., National Aeronautics and Space Administration, \$99,366, "Kansas Space Grant Consortium."

Polson, Cheryl J., US Department of Defense, \$474,199, "Brigade Spouse Courses at Fort Leavenworth."

OFFICE OF THE PROVOST

Dyer, Ruth A., Kansas State University Foundation, \$1,527, "Spainhour Faculty Chair for KAWSE."

SCHOOL OF LEADERSHIP STUDIES

Tolar, Mary H., City of Manhattan, KS, \$20,000, "Leadership Academy."

Tolar, Mary H., Corporation for National and Community Service, \$16,000, "Get Hands On."

Tolar, Mary H., Corporation for National and Community Service, \$56,312, "Serve to Succeed."

Tolar, Mary H., Kansas State Department of Education, \$2,535, "Kansas Mentors."

SALINA COLLEGE OF TECHNOLOGY AND AVIATION

SALINA APPLIED AVIATION RESEARCH CENTER

Barnhart, Richard K., KalScott Engineering, \$2,500, "UAS Facilities and/or Services License Agreement."

Barnhart, Richard K., University of Kansas Center for Research, Inc., \$5,000, "UAS Facilities and/or Services License Agreement - KUCR II."

Barnhart, Richard K., Viking Aerospace LLC, \$2,500, "UAS Facilities and/or Services License Agreement."

SALINA CAREER SERVICES

Brown, Danielle N., Carrico, Kelly J., and Delker, David G., Verizon Foundation, "STEM Peer Tutoring and Financial Counseling."

Carrico, Kelly J., Brown, Danielle N., and Delker, David G., Verizon Foundation, "STEM Peer Tutoring and Financial Counseling."

Delker, David G., Brown, Danielle N., and Carrico, Kelly J., Verizon Foundation, \$12,276, "STEM Peer Tutoring and Financial Counseling."

VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

KSU POLICE DEPARTMENT

Stubbings, Donald C., Kansas Department of Transportation, \$2,500, "Special Traffic Enforcement Program (STEP)."

VICE PRESIDENT FOR RESEARCH

BIOSECURITY RESEARCH INSTITUTE

Higgs, Stephen, State of Kansas, \$5,000,000, "Launching NBAF Research in BRI."

Higgs, Stephen, Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and **Richt, Juergen** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Curriculum and Teaching Enhancement for Diseases that Threaten Food Security."

Higgs, Stephen, US Department of Health and Human Services, \$133,618, "Pan Alphavirus Vaccine Development."

Higgs, Stephen, US Department of Health and Human Services, \$13,764, "The Role of Mosquito Saliva in Chikungunya Virus Transmission and Dissemination."

Higgs, Stephen, and **Richt, Juergen** (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Graduate Student Fellowship for Jolene Carlson."

Rusk, John S., US Department of Agriculture, \$79,000, "Sterilization and Disposal of Agricultural Quarantine Waste."

K-STATE OLATHE

Strohschein, Mike L., Pioneer Hi-Bred International, Inc., \$500, "Willie and the Beanstalk."

NATIONAL AGRICULTURAL BIOSECURITY CENTER

Beardsley, Craig A., and **Bell, Sam R.** (Political Science), Kauffman Foundation, \$103,169, "Agribusiness Development Team Project."

Beardsley, Craig A., and **Burton, Kenneth R.**, US Department of Homeland Security, "Development of Guidance to Ensure a Risk-informed Planning Process and Appropriate Decision Making for Use by State, Local, Tribal and Territorial (SLTT) Government Entities in Creation of Emergency Operation Plans to Defend Food and Agriculture Infrastructure."

Burton, Kenneth R., and **Beardsley, Craig A.**, US Department of Homeland Security, \$83,375, "Development of Guidance to Ensure a Risk-informed Planning Process and Appropriate Decision Making for Use by State, Local, Tribal and Territorial (SLTT) Government Entities in Creation of Emergency Operation Plans to Defend Food and Agriculture Infrastructure."

Vanier, Martha A., US Department of Defense, \$1,567,000, "Environmental, Food and Agricultural Security Operations and Maintenance (O&M) Activities and Research and Development (R&D)."

Vanier, Martha A., **Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **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)."

OFFICE OF THE VICE PRESIDENT FOR RESEARCH

Greene, Kathleen V., National Science Foundation, "McNair Scholars Program."

Guikema, James A., National Science Foundation, \$87,000, "National Science Foundation Graduate Research Fellowship Award."

Guikema, James A., US Department of Defense, \$28,310, "Master Memorandum of Agreement for Collaborative Service Projects."

Li, Jun, National Science Foundation, "Nanotechnology for Renewable Energy."

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

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

Trewyn, R. W., Kansas Department of Commerce, \$5,000,000, "Kansas Animal Agrosecurity 2025 and Beyond."

VICE PRESIDENT ELECTRONICS DESIGN LABORATORY

Huddleston, David E., Sobering, Timothy J., and Taylor, Russell D., US Department of Energy, "1-D Linear Array Neutron Detector Electronics Development."

Sobering, Timothy J., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D.** (Electrical and Computer Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Kuhn, William B.** (Electrical and Computer Engineering), **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), and **Warren, Steven** (Electrical and Computer Engineering), Kansas Board of Regents, \$1,050, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Sobering, Timothy J., Barstow, Thomas J. (Kinesiology OLD), **Day, Dwight D.** (Electrical and Computer Engineering), **Gruenbacher, Don M.** (Electrical and Computer Engineering), **Kuhn, William B.** (Electrical and Computer Engineering), **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), and **Warren, Steven** (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$12,532, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Sobering, Timothy J., National Science Foundation, \$46,619, "Adaptive Analog Nonlinear Circuits for Improving Properties of Electronic Devices."

Sobering, Timothy J., Huddleston, David E., and Taylor, Russell D., US Department of Energy, \$42,000, "1-D Linear Array Neutron Detector Electronics Development."

Taylor, Russell D., Huddleston, David E., and Sobering, Timothy J., US Department of Energy, "1-D Linear Array Neutron Detector Electronics Development."

VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

EDUCATIONAL AND PERSONAL DEVELOPMENT

Baublits, Jennifer L., US Department of Education, \$250,000, "Kansas State University - Salina Upward Bound Program -1."

Cortez, Anita R., and Bosco, Pat J., Kansas State University Foundation, \$88,137, "Edgerley-Franklin Urban Leadership Scholars Program."

Greene, Kathleen V., Multi-Sponsor, \$236, "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, \$246,400, "Ronald E. McNair PostBaccalaureate Achievement Program."

Greene, Kathleen V., US Department of Education, \$288,576, "Student Support Services at KSU-Manhattan."

Greene, Kathleen V., US Department of Education, \$222,151, "Student Support Services at KSU-Salina."

Vassol, Elverta L., US Department of Agriculture, \$2,469, "Kansas State University Upward Bound Math & Science Program, Summer Food Service Program - 2012."

KSU CHILD DEVELOPMENT CENTER, INC.

Curry, Elizabeth W., and Ring, Debra J., US Army, "Army Child Care in Your Neighborhood (ACCYN)."

Ring, Debra J., Kansas Department for Children and Families, \$524,223, "Early Childhood Workforce Development Grant."

Ring, Debra J., and Curry, Elizabeth W., US Army, \$62,219, "Army Child Care in Your Neighborhood (ACCYN)."

STUDENT FINANCIAL ASSISTANCE

Kaus, Jodi L., US Department of Education, "College Access Challenge Grant (CAGG) Program."

UNIVERSITY COUNSELING SERVICES

Mailey, Chaz D., City of Manhattan, KS, \$34,333, "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."

**Fourth Quarter
Proposal/Award Summary
07/01/12 - 6/30/13**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<u>COLLEGE OF AGRICULTURE</u>					
Agricultural Economics	29	\$4,525,803	\$11,622,905	17	\$1,879,073
Agricultural Experiment Station	3	\$257,048	\$613,788	0	\$0
Agricultural Research Center-Hays	24	\$1,070,341	\$2,221,201	17	\$341,647
Agriculture and Natural Resources	0	\$0	\$0	0	\$0
Agronomy	106	\$9,136,424	\$21,495,071	76	\$6,317,145
Animal Sciences and Industry	62	\$4,622,535	\$9,127,844	35	\$3,264,082
Communications	10	\$616,502	\$1,990,233	2	\$28,948
Dean of Agriculture and Director of AES	3	\$10,573,121	\$13,884,750	0	\$0
Entomology	44	\$3,409,549	\$8,622,496	31	\$1,641,243
Food Science Institute	2	\$116,486	\$116,485	2	\$860,581
Grain Science and Industry	74	\$6,537,607	\$15,544,413	50	\$10,118,056
Horticulture, Forestry and Recreation Resources	33	\$1,487,173	\$3,809,438	22	\$610,161
International Agricultural Programs	1	\$150,370	\$750,000	3	\$453,714
Kansas Industrial Extension Services	0	\$0	\$0	0	\$0
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	16	\$1,187,883	\$2,698,834	13	\$886,934
Northwest Research Extension Center	11	\$304,463	\$307,523	14	\$387,423
Office of Academic Programs	0	\$0	\$0	2	\$150,737
Plant Biotechnology Center	0	\$0	\$0	1	\$72,000
Plant Pathology	65	\$7,446,170	\$16,797,665	63	\$9,373,376
Southeast Agricultural Research Center	3	\$52,120	\$67,080	4	\$60,928
Southwest Research Extension Center	8	\$171,635	\$174,676	11	\$232,481
Total Agriculture	494	\$51,665,230	\$109,844,402	363	\$36,678,526
<u>COLLEGE OF ARCHITECTURE, PLANNING & DESIGN</u>					
Architecture	1	\$18,462	\$18,462	0	\$0
Dean of Architecture, Planning and Design	1	\$25,760	\$25,760	0	\$0
Interior Architecture and Product Design	0	\$0	\$0	0	\$0
Landscape Architecture/Regional & Community Planning	7	\$237,607	\$556,315	0	\$0
Total Architecture, Planning and Design	9	\$281,829	\$600,537	0	\$0
<u>COLLEGE OF ARTS AND SCIENCES</u>					
American Ethnic Studies	0	\$0	\$0	0	\$0
Art	0	\$0	\$0	0	\$0
Biochemistry	25	\$5,053,477	\$14,590,506	11	\$1,446,113
Biology	93	\$14,138,253	\$36,822,273	48	\$7,793,383
Chemistry	33	\$4,173,756	\$11,439,648	16	\$2,491,458
Communication Studies, Theatre and Dance	1	\$88,283	\$450,704	0	\$0
Community Health Institute	0	\$0	\$0	0	\$0
Dean of Arts and Sciences	4	\$1,174,946	\$1,574,946	0	\$0
Economics	0	\$0	\$0	0	\$0
English	2	\$96,350	\$96,350	0	\$0
Geography	21	\$1,775,528	\$3,474,243	8	\$478,709
Geology	10	\$718,352	\$1,360,792	5	\$162,184
History	2	\$40,971	\$109,842	3	\$234,342
Kinesiology	4	\$1,034,694	\$3,713,528	3	\$179,012
Mathematics	18	\$1,176,967	\$4,755,980	4	\$418,469
Modern Languages	1	\$6,000	\$6,000	0	\$0

**Fourth Quarter
Proposal/Award Summary
07/01/12 - 6/30/13**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
Music	1	\$15,950	\$15,950	1	\$15,950
Philosophy	1	\$26,198	\$79,932	0	\$0
Physics	34	\$13,443,391	\$24,388,864	15	\$5,231,021
Political Science	6	\$356,837	\$1,020,372	3	\$171,028
Psychological Sciences	9	\$1,448,870	\$3,455,596	4	\$841,284
School of Journalism and Mass Communications	1	\$94,016	\$94,016	2	\$379,467
Sociology, Anthropology and Social Work	15	\$1,085,791	\$2,013,943	6	\$227,879
Statistics	9	\$521,104	\$1,609,303	5	\$260,908
Women Studies	0	\$0	\$0	0	\$0
Total Arts and Sciences	290	\$46,469,731	\$111,072,787	134	\$20,331,206

COLLEGE OF BUSINESS ADMINISTRATION

Finance	0	\$0	\$0	0	\$0
Accounting	0	\$0	\$0	1	\$41,416
Dean of Business Administration	0	\$0	\$0	0	\$0
Management	1	\$209,995	\$633,255	1	\$5,000
Marketing	1	\$168,624	\$418,035	0	\$0
Total Business Administration	2	\$378,619	\$1,051,290	2	\$46,416

COLLEGE OF EDUCATION

Curriculum and Instruction	1	\$150,000	\$150,000	1	\$295,178
Dean of Education	40	\$10,057,698	\$28,203,296	27	\$4,568,448
Educational Leadership	0	\$0	\$0	1	\$87,771
Elementary Education	0	\$0	\$0	0	\$0
Secondary Education	0	\$0	\$0	0	\$0
Special Education, Counseling and Student Affairs	1	\$3,747	\$3,747	0	\$0
Total Education	42	\$10,211,445	\$28,357,043	29	\$4,951,397

COLLEGE OF ENGINEERING

Advanced Manufacturing Institute	8	\$1,148,668	\$2,345,010	14	\$2,787,818
Architectural Engineering and Construction Science	1	\$22,116	\$37,730	0	\$0
Biological and Agricultural Engineering	23	\$1,012,242	\$1,838,505	18	\$1,526,681
Center for Hazardous Substance Research	5	\$798,608	\$3,718,608	4	\$288,727
Chemical Engineering	19	\$4,808,192	\$10,705,982	7	\$1,120,526
Civil Engineering	25	\$5,520,281	\$8,935,330	15	\$2,753,232
Computing and Information Sciences	21	\$4,107,171	\$9,827,219	14	\$3,782,564
Dean of Engineering	3	\$231,951	\$1,038,323	4	\$7,045,581
Electrical and Computer Engineering	24	\$1,632,086	\$4,587,225	22	\$874,793
Engineering Experiment Station	7	\$3,739,522	\$3,739,522	0	\$0
Industrial and Manufacturing Systems Engineering	25	\$1,483,149	\$1,957,360	18	\$1,330,252
Institute for Environmental Research	2	\$81,699	\$81,699	5	\$611,763
Kansas Industrial Extension Service	9	\$1,236,517	\$1,646,724	10	\$1,004,228
Mechanical and Nuclear Engineering	57	\$9,636,286	\$22,421,741	19	\$2,029,180
National Gas Machinery Laboratory	4	\$92,124	\$107,738	3	\$201,149
National Institute for Land Management and Training	0	\$0	\$0	0	\$0

**Fourth Quarter
Proposal/Award Summary
07/01/12 - 6/30/13**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
Total Engineering	233	\$35,550,609	\$72,988,715	153	\$25,356,493
<u>COLLEGE OF HUMAN ECOLOGY</u>					
Apparel, Textiles, and Interior Design	0	\$0	\$0	1	\$713,847
Communication Studies, Theatre, Dance	0	\$0	\$0	0	\$0
Communications	0	\$0	\$0	0	\$0
Dean of Human Ecology	3	\$376,777	\$811,760	1	\$110,461
Hospitality Management and Dietetics	5	\$1,496,212	\$2,618,026	1	\$500,000
Human Nutrition	41	\$4,092,107	\$9,814,873	12	\$1,716,444
Kinesiology	1	\$49,435	\$100,454	1	\$100,454
School of Family Studies and Human Services	20	\$3,940,773	\$11,079,022	17	\$6,524,106
Total Human Ecology	70	\$9,955,304	\$24,424,135	33	\$9,665,311
<u>COLLEGE OF TECHNOLOGY AND AVIATION</u>					
Academic Services	1	\$5,000	\$5,000	1	\$12,276
Applied Aviation Research Center	4	\$2,069,461	\$2,149,461	3	\$10,000
Arts, Science and Business	2	\$89,147	\$140,323	0	\$0
Aviation	1	\$15,000	\$45,000	0	\$0
Dean of College of Technology and Aviation	0	\$0	\$0	0	\$0
Engineering Technology	1	\$24,000	\$24,000	0	\$0
Fiscal Affairs	1	\$34,590	\$34,590	0	\$0
Total Technology and Aviation	10	\$2,237,198	\$2,398,374	4	\$22,276
<u>COLLEGE OF VETERINARY MEDICINE</u>					
Anatomy and Physiology	39	\$6,324,266	\$21,466,733	22	\$7,747,515
Clinical Sciences	32	\$1,093,158	\$1,753,535	16	\$1,164,922
Dean of Veterinary Medical Center	0	\$0	\$0	1	\$199,401
Diagnostic Medicine/Pathobiology	73	\$14,902,168	\$40,863,997	43	\$10,496,241
Veterinary Diagnostic Laboratory	12	\$478,347	\$478,347	7	\$231,875
Veterinary Medical Teaching Hospital	4	\$13,936	\$18,830	1	\$2,000
Total Veterinary Medical Center	160	\$22,811,876	\$64,581,441	90	\$19,841,954
<u>COOPERATIVE EXTENSION</u>					
Cooperative Extension - Agriculture					
Agricultural Economics	0	\$0	\$0	0	\$0
Agriculture and Natural Resources	4	\$903,484	\$948,156	3	\$493,018
Agronomy	1	\$21,654	\$21,654	1	\$10,609
Biological and Agricultural Engineering	0	\$0	\$0	0	\$0
Communications	0	\$0	\$0	0	\$0
County Agents-Metropolitan Sector	0	\$0	\$0	0	\$0
County Agents-Northwest Sector	0	\$0	\$0	0	\$0
Director of Cooperative Extension	0	\$0	\$0	4	\$385,035
Four-H Youth Development	7	\$1,476,681	\$1,476,681	8	\$390,367

**Fourth Quarter
Proposal/Award Summary
07/01/12 - 6/30/13**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
Kansas Forest Service	10	\$1,642,663	\$2,202,732	7	\$420,967
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	0	\$0	\$0	0	\$0
Northeast Area Office	2	\$13,800	\$13,800	1	\$10,235
Northeast/Metro Area Office	0	\$0	\$0	0	\$0
Northwest Area Office	0	\$0	\$0	1	\$9,360
Southeast Area Office	0	\$0	\$0	2	\$32,699
Southwest Area Office	0	\$0	\$0	2	\$23,662
Subtotal Cooperative Ext - Agriculture	24	\$4,058,282	\$4,663,023	29	\$1,775,952
Cooperative Extension - Human Ecology					
Family and Consumer Sciences	2	\$4,164,336	\$4,164,336	1	\$1,757,763
Human Nutrition	0	\$0	\$0	0	\$0
Nutrition Program	0	\$0	\$0	0	\$0
Subtotal Cooperative Ext - Human Ecology	2	\$4,164,336	\$4,164,336	1	\$1,757,763
Total Cooperative Extension	26	\$8,222,618	\$8,827,359	30	\$3,533,715
<u>OFFICE OF THE PRESIDENT</u>					
Auditorium Performances	0	\$0	\$0	0	\$0
Beach Art Museum	0	\$0	\$0	0	\$0
Office of the President	0	\$0	\$0	0	\$0
Total Office of the President	0	\$0	\$0	0	\$0
<u>OFFICE OF THE PROVOST</u>					
Assessment and Program Review	0	\$0	\$0	1	\$14,421
Center for Engagement and Community Development	0	\$0	\$0	2	\$101,648
Dean of Continuing Education	2	\$1,947,485	\$1,947,485	1	\$15,871,917
Dean of Graduate School	3	\$95,683	\$95,683	3	\$579,565
International Programs	0	\$0	\$0	0	\$0
Kansas Center for Rural Initiatives	0	\$0	\$0	0	\$0
Library	0	\$0	\$0	0	\$0
Office of Diversity and Dual Career Development	0	\$0	\$0	0	\$0
Office of the Provost	3	\$234,739	\$1,002,460	1	\$1,527
Regent's Educational Communications Center	0	\$0	\$0	0	\$0
School of Leadership Studies	3	\$25,500	\$40,500	4	\$94,847
Office of Vice President for Communications and Marketing	0	\$0	\$0	0	\$0
Total Office of the Provost	11	\$2,303,408	\$3,086,128	12	\$16,663,925
<u>OFFICE OF THE VICE PRESIDENT FOR ACADEMIC SERVICES AND TECHNOLOGY</u>					
Information Technology Assistance Center	0	\$0	\$0	0	\$0
Total Academic Services and Technology	0	\$0	\$0	0	\$0
<u>OFFICE OF THE VICE PRESIDENT FOR</u>					

**Fourth Quarter
Proposal/Award Summary
07/01/12 - 6/30/13**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<u>ADMINISTRATION AND FINANCE</u>					
Budget Office	0	\$0	\$0	0	\$0
KSU Police Department	2	\$25,256	\$25,256	1	\$2,500
Public Safety	0	\$0	\$0	0	\$0
Vice President for Administration and Finance	0	\$0	\$0	0	\$0
Total Administration and Finance	2	\$25,256	\$25,256	1	\$2,500
<u>OFFICE OF THE VICE PRESIDENT FOR RESEARCH</u>					
Biosecurity Research Institute	3	\$318,488	\$543,292	4	\$5,226,382
Comparative Medicine	0	\$0	\$0	0	\$0
K-State Olathe Innovation Campus	1	\$5,000	\$5,000	1	\$500
National Agricultural Biosecurity Center	2	\$1,650,375	\$1,650,375	3	\$1,753,544
Office of the Vice President for Research	10	\$8,910,523	\$8,910,523	4	\$5,180,466
Vice President Biotech Laboratory	0	\$0	\$0	0	\$0
Vice President Electronics Design Laboratory	3	\$148,619	\$208,619	5	\$334,864
Total Vice President for Research	19	\$11,033,005	\$11,317,809	17	\$12,495,755
<u>OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS</u>					
Department of Housing	0	\$0	\$0	0	\$0
Educational and Personal Development	3	\$750,000	\$3,750,000	8	\$1,118,279
KSU Child Development Center, Inc.	2	\$628,762	\$628,762	2	\$586,442
Office of Vice President for Student Life	0	\$0	\$0	1	\$15,000
University Counseling Services	1	\$73,030	\$73,030	1	\$34,333
Total Student Life and Dean of Students	6	\$1,451,792	\$4,451,792	12	\$1,754,054
University Totals	1,374	\$202,597,920	\$443,027,069	880	\$151,343,529

KANSAS STATE UNIVERSITY
SUMMARY OF EXTRAMURAL SUPPORT

FY2013

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
AGRICULTURE					
Dean of Agriculture & Director of AES	\$0	\$41,518	\$0	\$81,958	\$0
Agricultural Economics	\$1,350,847	\$2,408,959	\$2,179,162	\$3,275,769	\$1,879,073
Agronomy	\$4,892,905	\$6,779,713	\$4,911,685	\$6,135,014	\$6,317,145
Animal Sciences & Industry	\$1,882,156	\$1,327,458	\$2,425,820	\$1,463,992	\$3,264,082
Communications	\$0	\$76,436	\$0	\$49,639	\$28,948
Entomology	\$1,560,774	\$1,898,520	\$2,316,683	\$1,361,623	\$1,641,243
Food Science Institute	\$112,657	\$218,472	\$117,689	\$117,175	\$860,581
Grain Science & Industry	\$3,396,240	\$1,582,167	\$1,376,246	\$2,165,610	\$10,118,056
Hort., Forestry & Recreation Resources	\$1,082,763	\$514,216	\$368,293	\$755,787	\$610,161
International Agriculture Programs	\$0	\$0	\$3,982	\$125,945	\$453,714
KS Ctr for Agri & the Env/KS Water Res. Res. Inst.	\$1,162,960	\$886,398	\$647,659	\$1,514,499	\$886,934
Office of Academic Programs	\$74,134	\$221,702	\$150,210	\$74,134	\$150,737
Plant Biotechnology Center	\$0	\$0	\$0	\$0	\$72,000
Plant Pathology	\$7,607,972	\$6,754,886	\$5,451,762	\$7,375,691	\$9,373,376
Agricultural Experiment Station	\$123,192	\$333,010	\$210,000	\$165,000	\$0
Northwest Research Extension Center	\$338,258	\$393,406	\$410,701	\$231,733	\$387,423
Agricultural Research Center-Hays	\$379,088	\$608,307	\$575,798	\$432,201	\$341,647
Southeast Agricultural Res. Ctr.	\$52,295	\$41,305	\$49,937	\$39,607	\$60,928
Southwest Research Extension Ctr.	\$459,809	\$436,221	\$398,106	\$453,934	\$232,481
Extension Director	\$104,209	\$424,058	\$798,100	\$3,376,842	\$385,035
Extension Agricultural Economics	\$0	\$0	\$45,696	\$0	\$0
Extension Agronomy	\$11,500	\$15,529	\$12,571	\$10,368	\$10,609
Extension Animal Sciences & Industry	\$0	\$0	\$0	\$0	\$0
Extension Biological & Agricultural Engineering	\$0	\$45,000	\$25,000	\$0	\$0
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	\$77,280	\$253,000	\$228,500	\$295,157	\$390,367
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	\$17,500	\$0	\$0
Extension Kansas Forest Service	\$3,391,477	\$5,914,897	\$493,890	\$6,522,887	\$420,967
Extension Kansas Water Resource Res. Inst.	\$15,000	\$0	\$0	\$0	\$0
Extension Northeast Area Office	\$5,330	\$10,620	\$12,446	\$17,137	\$10,235
Extension Northwest Area Office	\$39,394	\$18,822	\$40,613	\$91,685	\$9,360
Extension Plant Pathology	\$0	\$0	\$0	\$0	\$0
Extension Agriculture and Natural Resources	\$690,210	\$489,315	\$503,211	\$383,458	\$493,018
Extension South Central Area Office	\$0	\$0	\$0	\$0	\$0
Extension Southeast Area Office	\$900	\$3,933	\$37,776	\$12,532	\$32,699
Extension Southwest Area Office	\$77,388	\$45,169	\$21,710	\$7,638	\$23,662
College Totals	\$28,888,737	\$31,743,036	\$23,830,745	\$36,537,015	\$38,454,478

ARCHITECTURE, PLANNING AND DESIGN

Dean of Architecture, Planning & Design	\$0	\$0	\$0	\$0	\$0
Architecture	\$0	\$0	\$0	\$0	\$0
Interior Architecture and Product Design	\$0	\$5,000	\$0	\$33,982	\$0
Landscape Arch/Regional & Comm Plan	\$0	\$167,343	\$60,008	\$261,936	\$0
College Totals	\$0	\$172,343	\$60,008	\$295,918	\$0

ARTS AND SCIENCES

Dean of Arts & Sciences	\$1,668,091	\$0	\$15,000	\$0	\$0
Biochemistry	\$1,158,896	\$3,018,734	\$1,457,390	\$1,383,653	\$1,446,113
Biology	\$7,271,896	\$8,171,385	\$8,471,140	\$10,262,919	\$7,793,383
Chemistry	\$2,498,285	\$3,340,693	\$3,784,835	\$1,673,244	\$2,491,458
Communication Studies, Theatre & Dance	\$10,962	\$59,374	\$0	\$0	\$0
Community Health Institute	\$24,118	\$0	\$0	\$0	\$0
Economics	\$85,000	\$0	\$0	\$0	\$0
English	\$0	\$740	\$23,334	\$0	\$0
Geography	\$263,927	\$165,536	\$497,609	\$423,393	\$478,709
Geology	\$187,153	\$288,128	\$172,352	\$486,811	\$162,184
History	\$84,987	\$65,000	\$25,000	\$43,000	\$234,342
Kinesiology	\$132,002	\$317,481	\$198,395	\$268,607	\$179,012
Mathematics	\$278,372	\$1,183,781	\$387,717	\$539,233	\$418,469
Music	\$15,920	\$14,050	\$17,850	\$15,950	\$15,950

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Philosophy	\$0	\$0	\$0	\$0	\$0
Physics	\$7,020,697	\$5,241,624	\$9,318,025	\$6,921,664	\$5,231,021
Political Science	\$0	\$314,246	\$0	\$87,469	\$171,028
Psychological Sciences	\$196,473	\$625,142	\$648,914	\$1,181,142	\$841,284
School of Journalism & Mass Communications	\$38,873	\$0	\$89,924	\$388,368	\$379,467
Sociology, Anthropology, & Social Work	\$647,465	\$760,237	\$333,359	\$87,277	\$227,879
Speech Communication, Theatre and Dance	\$0	\$0	\$0	\$0	\$0
Statistics	\$0	\$51,633	\$45,164	\$36,953	\$260,908
Woman Studies	\$0	\$0	\$10,050	\$0	\$0
College Totals	<u>\$21,583,116</u>	<u>\$23,617,786</u>	<u>\$25,496,059</u>	<u>\$23,799,683</u>	<u>\$20,331,206</u>

BUSINESS ADMINISTRATION

Dean of Business Administration	\$0	\$0	\$0	\$0	\$0
Accounting	\$0	\$0	\$0	\$0	\$41,416
Marketing	\$0	\$15,463	\$3,250	\$0	\$0
Management	<u>\$26,213</u>	<u>\$228,749</u>	<u>\$38,772</u>	<u>\$38,002</u>	<u>\$5,000</u>
College Totals	<u>\$26,213</u>	<u>\$244,212</u>	<u>\$42,022</u>	<u>\$38,002</u>	<u>\$46,416</u>

EDUCATION

Curriculum and Instruction	\$0	\$0	\$0	\$4,014	\$295,178
Dean of Education	\$5,340,335	\$6,403,595	\$3,690,061	\$5,678,838	\$4,568,448
Educational Leadership	\$198,056	\$110,947	\$65,885	\$66,106	\$87,771
Elementary Education	\$31,870	\$32,370	\$32,370	\$0	\$0
Secondary Education	\$0	\$30,984	\$0	\$0	\$0
Special Education, Counseling and Student Affairs	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
College Totals	<u>\$5,570,261</u>	<u>\$6,577,896</u>	<u>\$3,788,316</u>	<u>\$5,748,958</u>	<u>\$4,951,397</u>

ENGINEERING

Dean of Engineering	\$16,599	\$323,884	\$20,106	\$3,862,252	\$7,045,581
Advanced Manufacturing Institute	\$1,681,912	\$2,141,383	\$2,550,702	\$1,390,487	\$2,787,818
Architectural Engg & Construction Sci	\$0	\$0	\$0	\$60,722	\$0
Biological & Agricultural Engineering	\$2,846,196	\$2,923,787	\$1,422,306	\$1,746,929	\$1,526,681
Center for Hazardous Substance Research	\$885,820	\$1,222,000	\$290,245	\$595,543	\$288,727
Chemical Engineering	\$2,149,271	\$2,851,943	\$4,715,020	\$1,767,029	\$1,120,526
Civil Engineering	\$2,642,966	\$2,850,820	\$2,279,751	\$1,505,432	\$2,753,232
Computing & Information Sciences	\$961,723	\$3,328,123	\$2,252,037	\$2,902,450	\$3,782,564
Electrical & Computer Engineering	\$994,953	\$2,703,700	\$1,835,404	\$2,105,802	\$874,793
Engineering Experiment Station	\$123,404	\$67,079	\$54,409	\$173,276	\$0
Institute for Environmental Research	\$988,891	\$1,368,029	\$1,080,237	\$898,846	\$611,763
Extension Engineering	\$0	\$0	\$0	\$0	\$0
Industrial & Manufacturing Sys Engg	\$873,950	\$431,774	\$863,656	\$787,941	\$1,330,252
Kansas Industrial Extension Service	\$4,434,261	\$1,283,777	\$1,359,975	\$672,125	\$1,004,228
Mechanical and Nuclear Engineering	\$3,378,903	\$1,866,639	\$3,376,890	\$3,549,961	\$2,029,180
National Gas Machinery Laboratory	\$208,012	\$96,110	\$125,667	\$58,216	\$201,149
Nat'l Institute for Land Mgmt & Training	<u>\$533,708</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
College Totals	<u>\$22,720,569</u>	<u>\$23,459,046</u>	<u>\$22,226,404</u>	<u>\$22,077,011</u>	<u>\$25,356,493</u>

HUMAN ECOLOGY

Dean of Human Ecology	\$355,627	\$2,757,068	\$320,913	\$428,501	\$110,461
Apparel, Textiles & Interior Design	\$40,303	\$0	\$74,499	\$28,854	\$713,847
Human Nutrition	\$535,505	\$1,040,636	\$462,504	\$2,564,729	\$1,716,444
Hospitality Mgmt & Dietetics	\$218,058	\$15,204	\$2,282,480	\$145,168	\$500,000
Kinesiology	\$0	\$0	\$0	\$0	\$100,454
School of Family Studies & Human Services	\$16,866,207	\$14,709,030	\$11,156,617	\$15,630,852	\$6,524,106
Extension Apparel, Textiles & Interior Design	\$0	\$0	\$0	\$0	\$0
Extension Family & Consumer Sciences	\$3,129,135	\$0	\$591,157	\$2,359,722	\$1,757,763
Extension Human Nutrition	\$0	\$3,162,679	\$3,421,868	\$0	\$0
Extension Nutrition Program	\$32,078	\$0	\$0	\$0	\$0
Ext. Family Studies & Human Services	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
College Totals	<u>\$21,176,914</u>	<u>\$21,684,617</u>	<u>\$18,310,037</u>	<u>\$21,157,826</u>	<u>\$11,423,074</u>

TECHNOLOGY AND AVIATION

Dean, College of Technology	\$0	\$0	\$0	\$0	\$0
Academic Services	\$580	\$0	\$0	\$0	\$12,276
Salina Applied Aviation Research Center	\$496,321	\$2,965,110	\$20,389	\$0	\$10,000
Salina Arts, Science and Business	\$0	\$8,500	\$4,500	\$4,500	\$0
Salina Aviation	\$0	\$45,690	\$20,288	\$14,066	\$0
Engineering Technology	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
College Totals	<u>\$496,901</u>	<u>\$3,019,300</u>	<u>\$45,177</u>	<u>\$18,566</u>	<u>\$22,276</u>

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
VETERINARY MEDICINE					
Dean of Veterinary Medicine	\$205,880	\$142,790	\$177,879	\$287,167	\$199,401
Anatomy & Physiology	\$3,322,473	\$3,494,658	\$3,661,475	\$3,090,238	\$7,747,515
Clinical Sciences	\$1,225,367	\$1,640,051	\$2,019,718	\$1,219,405	\$1,164,922
Diagnostic Medicine/Pathobiology	\$8,778,701	\$10,833,620	\$11,253,396	\$8,882,207	\$10,496,241
Veterinary Diagnostic Laboratory	\$65,527	\$220,517	\$465,217	\$61,860	\$231,875
Veterinary Medical Teaching Hospital	\$19,900	\$19,000	\$23,800	\$22,405	\$2,000
College Totals	<u>\$13,617,848</u>	<u>\$16,350,636</u>	<u>\$17,601,484</u>	<u>\$13,563,282</u>	<u>\$19,841,954</u>
PRESIDENT					
Beach Art Museum	\$24,997	\$14,208	\$26,860	\$75,000	\$0
McCain Auditorium	\$481,045	\$347,358	\$430,286	\$0	\$0
Office of the President	\$0	\$2,100,000	\$0	\$1,500,000	\$0
Totals	<u>\$506,042</u>	<u>\$2,461,566</u>	<u>\$457,146</u>	<u>\$1,575,000</u>	<u>\$0</u>
PROVOST					
Office of the Provost	\$0	\$0	\$3,186,621	\$53,051	\$1,527
Assessment & Program Review	\$88,604	\$0	\$0	\$39,078	\$14,421
Center for Engagement, Community Development	\$168,935	\$168,385	\$93,415	\$471,045	\$101,648
Dean of Continuing Education	\$0	\$33,995	\$225,000	\$75,000	\$15,871,917
Dean of the Graduate School	\$42,000	\$58,152	\$183,048	\$295,157	\$579,565
International Programs	\$250,978	\$246,421	\$101,214	\$10,224	\$0
Kansas Center for Rural Initiatives	\$0	\$0	\$0	\$0	\$0
Library	\$10,500	\$46,479	\$14,589	\$750	\$0
Office of Diversity and Dual Career Dev.	\$0	\$31,714	\$34,022	\$35,002	\$0
Planning and Analysis	\$0	\$0	\$0	\$0	\$0
Regents Educational Communications Ctr.	\$0	\$0	\$0	\$0	\$0
School of Leadership Studies	\$92,645	\$247,954	\$149,637	\$180,314	\$94,847
Vice President for Communications and Marketing	\$0	\$0	\$249,000	\$0	\$0
Totals	<u>\$653,662</u>	<u>\$833,100</u>	<u>\$4,236,546</u>	<u>\$1,159,621</u>	<u>\$16,663,925</u>
V.P. ADMINISTRATION AND FINANCE					
Vice President for Administration and Finance	\$0	\$583,507	\$0	\$0	\$0
Budget Office	\$0	\$11,748,086	\$0	\$0	\$0
KSU Police Department	\$8,497	\$4,697	\$7,097	\$205,271	\$2,500
Public Safety	\$0	\$0	\$0	\$2,600,000	\$0
Physical Facilities	\$0	\$0	\$0	\$0	\$0
Totals	<u>\$8,497</u>	<u>\$12,336,290</u>	<u>\$7,097</u>	<u>\$2,805,271</u>	<u>\$2,500</u>
V.P. INSTITUTIONAL ADVANCEMENT					
Department of Housing	\$0	\$0	\$0	\$0	\$0
Educational & Personal Development	\$0	\$0	\$0	\$0	\$0
KSU Child Development Center	\$0	\$0	\$0	\$0	\$0
Office of Diversity & Dual Career Dev.	\$0	\$0	\$0	\$0	\$0
University Counseling Services	\$0	\$0	\$0	\$0	\$0
Vice President for Institutional Advancement	\$0	\$0	\$0	\$0	\$0
Totals	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
V. P. ACADEMIC SERVICES & TECHNOLOGY					
Vice President for Academic Serv. & Tech.	\$0	\$0	\$0	\$0	\$0
Dean of Continuing Education	\$0	\$0	\$0	\$0	\$0
Regents Educational Communications Ctr.	\$0	\$0	\$0	\$0	\$0
Regents Telenet	\$0	\$0	\$0	\$0	\$0
Totals	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
VICE PRESIDENT FOR RESEARCH					
Vice President for Research	\$1,647,610	\$67,189	\$0	\$5,081,000	\$5,180,466
Vice President for Res. & Dean Grad of Sch.	\$0	\$0	\$0	\$0	\$0
Biosecurity Research Institute	\$1,000	\$0	\$340,842	\$752,521	\$5,226,382
K-State Olathe Innovation Campus	\$0	\$0	\$0	\$0	\$500
National Agricultural Biosecurity Center	\$14,652,588	\$2,160,791	\$6,028,149	\$812,000	\$1,753,544
Biotechnology Laboratory	\$70,948	\$52,037	\$50,005	\$57,054	\$0
Electronics Design Lab	\$199,139	\$165,865	\$233,893	\$330,790	\$334,864
Totals	<u>\$16,571,285</u>	<u>\$2,445,882</u>	<u>\$6,652,888</u>	<u>\$7,033,365</u>	<u>\$12,495,755</u>

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
V.P. FOR STUDENT LIFE AND DEAN OF STUDENTS					
Office of Vice President for Student Life	\$0	\$84,240	\$69,957	\$0	\$15,000
Department of Housing	\$200,522	\$0	\$0	\$0	\$0
Educational & Personal Development	\$1,123,191	\$2,542,353	\$1,635,762	\$1,288,752	\$1,118,279
KSU Child Development Center	\$372,118	\$86,165	\$129,420	\$310,126	\$586,442
Office of Diversity & Dual Career Dev.	\$34,238	\$0	\$0	\$0	\$0
University Counseling Services	\$100,463	\$37,400	\$37,000	\$37,000	\$34,333
Totals	<u>\$1,830,531</u>	<u>\$2,750,158</u>	<u>\$1,872,139</u>	<u>\$1,635,878</u>	<u>\$1,754,054</u>
UNIVERSITY TOTALS					
	\$133,650,574	\$147,695,867	\$124,626,067	\$137,445,396	\$151,343,529

Fiscal Year 2013 Faculty Development Awards

Adityavarman, Ryadi, Interior Architecture and Product Design, \$500, Present "Embodied Sensibility: Hidden Dimension in Design Teaching Pedagogy" at the Third Annual International Conference on Architecture in Greece

Ambrose, R. P. Kingsly, Grain Science and Industry, \$1,800, Present "Discrete Element Modeling of Grain Flow Pattern in a Continuous Crossflow Grain Dryer" at the International Conference on Powder, Granule and Bulk Solids: Innovations and Applications in India

Asano, Katsura, Biology, \$1,900, Present "Role of eIF5-mimic proteins in tumorigenesis" at the 15th Japan RNA Society meeting in Japan

Ben-Arieh, David H., Industrial and Manufacturing Systems Engineering, \$1,500, Attend the International Conference on Production Research in Iguassu Falls in Brazil

Brody, Jason S, Landscape Arch/Regional and Comm Planning, \$1,900, Present "Leading Design Memes: 100 Years of the Neighborhood Unit Concept" at the AESOP-ACSP Joint Conference in Ireland

Chen, Kun, Statistics, \$1,000, Attend Statistics and Probability IMS--China International Conference in China

Chronister, Necia N., Modern Languages, \$1,500, Attend the Marbach Weekend Seminar, Topic: New East German Literature in Germany

Clark, Robert L., Modern Languages, \$1,000, Present "Fetes et jouissances sous l'oeil de Vinchy: Le 'Miracle du pain dore' aux Hospices de Beaune (21-22 juillet 1943)" for 1) Groupe Interdisciplinaire sur la Musique et les Arts du Spectacle, UFR de Musique et Musicologie, Universite Paris-Sorbonne

Crosby, Mark C., English, \$1,000, Present "The Mis-trial of Blake" at a public lecture at the Chichester Blake Festival, United Kingdom

Defries, David, History, \$1,500, Present "When Angels Sing: Identifying Saints and Miracles in the Early Middle Ages" at Shaping Authority International Conference in Belgium

Fialdini Zambrano, Rossana, Modern Languages, \$2,200, Present "Esperame en el cielo: the newest work of Mariangeles Rodriguez Alonso y Diana de Paco" at the Hispanic Theatre International Seminar in Madrid and Attend the Tragedy of Living: Pain and Evil in Hispanic Literature International Congress

Frey, Marsha L., History, \$1,000, Present "The Peace of Utrecht and the Confessional Issue" at the Commemoration of the Peace of Utrecht in Paris"

Gibson, Husto, Landscape Arch/Regional and Comm Planning, \$1,500, Present "Pocket Parks as Community Building Blocks: A Focus on Stapleton, CO" at the Joint Association of European Schools of Planning/Association of Collegiate Schools of Planning Congress 2013 in Ireland

Hahn, Howard D., Landscape Arch/Regional and Comm Planning, \$500, Present "Photo-Based Terrain Data Acquisition and 3D Modeling" at the 2013 Digital Landscape Architecture Conference in Germany

Hamilton, James R., Philosophy, \$500, Present "Theatre and Time" at the International Federation for Theatre Research meeting in Spain

Hancock, Lynn E., Biology, \$500, Present "An ABC transporter is required for export of peptide pheromones mediating conjugal transfer of pheromone responsive plasmids and biofilm development in *Enterococcus faecalis*" at the International Conference on Gram-Positive Microorganisms in Italy

Hardwidge, Philip R., Diagnostic Medicine/Pathobiology, \$1,500, Present "Interaction Between the E. Coli NLEB Virulence Protein and a Mammalian Glycolysis Enzyme Inhibits NF-KAPPAB Activation" at the FEMS Congress of European Microbiologists, and invited seminars in Germany and Spain

Higgins, Daniel A., Chemistry, \$750, Present "A Random Walk in the Dark: Following Single Molecules to a Better Understanding of Mesoporous Silica Materials" and "Probing Nanoscale Acidity Distributions in Sol-Gel-Derived Materials by Single Molecule Spectroscopy" at the Sol-Gel 2013, XVII International Sol-Gel Conference in Spain

Jani, Vibhavari, Landscape Arch/Regional and Comm Planning, \$1,500, Present "Revitalizing the 'De-Urban' Spaces to Develop a Holistic Urban Community in Downtown Kansas City" at the Spaces and Flows: Urban and Extra Urban Studies Conference at the Centre for Urban Studies in the Netherlands

Jankowiak, Ryszard J., Chemistry, \$700, Attend "Light Harvesting Process 2013" International Conference in Germany and visit laboratories of Dr. Dror Noy at Weitzman Institute in Israel

Jumpponen, Ari M., Biology, \$1,000, Present "Adoption and utility of an Acabidopsis model to dissect endophyte symbioses" at the Plant Protection and Plant Health: Endophytes for plant protection conference in Germany

Joglekar, Shreepad, Art, \$1,000, Present "Place for Community and Memory in Port Town Revivals" at the Port Town and Urban Cultures Conference in Portsmouth in the United Kingdom

Kanost, Laura M., Modern Languages, \$500, Present "Narrative Performances of Mental Illness in El portero by Reinaldo Arenas and 'Corazon de skitalietz' by Antonio Jose Ponte" at the American Comparative Literature Association in Canada

Kerstetter, Kelvin T., Music, \$3,500, Perform of New York by K-State Composer Dr. Craig Weston, by K-State Faculty Members Dr. Tod Kersetter (clarinet), Dr. Jacqueline Fassler-Kersetter (horn), and Amanda Arrington (piano) at the International Clarinet Association "ClarinetFest in Italy"

Kozar, Joy, Apparel, Textiles, and Interior Design, \$1,500, Present "Words of Wisdom: Drawing on the past experiences of marketing scholars to shape future leaders within the academy" at the Academy of Marketing Science, World Marketing Congress in Australia

Kulcsar, Laszlo, Sociology, Anthropology, and Social Work, \$2,200, Present "Bucolic Landscapes and Conceptual Wilderness: Rurality Discourses in Post-Socialist Eastern Europe" at the European Society of Rural Sociology XXV Congress in Italy

Kumari, Meena, Anatomy and Physiology, \$500, Present "Multifaceted Targeting by Alcohol in Our Body: mRNA Stability" at the Emerging Trends and Challenges in Neuroscience and XXXI Annual Meeting of Indian Academy of Neurosciences Symposium in India

Larson, Lotta C., Curriculum and Instruction, \$2,000, Present "Exploring Dynamic Literacies through Touch Technology" and "New Literacies, New Times: Building Global Communities of Readers" at the European Conference on Reading in Sweden

Loyd, Heather, Sociology, Anthropology, and Social Work, \$2,000, Present "Performance Aesthetics of Remedial Exchanges in Inner City Napoli" at the International Pragmatics Conference in India

Machor, James L., English, \$250, Invited speaker at the "Reception Study, Genre Study, and Literary History" Colloquium lecture, Centre for European Reception Study, University of Brussels and the University of Leuven

Marston, Richard A., Geography, \$500, Present "Spatial Distribution of Slope Failures, Grand Teton National Park, Wyoming, USA" at the International Assoc. of Geomorphologists Conference in Paris

Mathews, Alexander P., Civil Engineering, \$500, Present "Modeling and Analysis of a High Cell Density Fermentation Process for Lactic Acid Production from Low-grade Biomass" at the V International Conference on Environmental, Industrial, and Applied Microbiology in Spain

Matlock, Wendy A., English, \$1,700, Present "Siblings in Oxford, Bodleian Library, MS Ashmole 61: 'So glad of odour ichon thei ware'", University of Leeds, United Kingdom, July, 2013 and Archival Research Project: Book Chapter "Pleasures and Pains of Family in Oxford, Bodleian Library MS, Ashmole 61" a

Maxwell, Steve, Music, \$1,000, Guest Artist Recital at the United States Army "Pershing's Own" Tuba and Euphonium Conference (only one of two international conferences for performers and researchers of the tuba and euphonium)

Nel, Philip W., English, \$2,500, Present "Whiteness, Nostalgia, and Fantastic Flying Books: The Disappearance of Race in William Joyce" and "Keywords for Children's Literature: A Roundtable Discussion" at the International Research Society for Children's Literature in the Netherlands

Nesse, Katherine, Landscape Arch/Regional and Comm Planning, \$1,000, Present "What election campaign lawn signs indicate: Estimating demographic characteristics from publically observable neighborhood phenomena" at the Joint AESOP/ACSP Congress in Ireland

Park, Yoonseong, Entomology, \$500, Attend North American Society for Comparative Endocrinology (NASCE) conference in Mexico

Pentz, Julie, Music, \$1,000, Build a Bridge from Ghana, Africa to Kansas State University

Powers, Angela, Journalism and Mass Communications, \$500, Present "Family-Owned Newspapers: Filling Niches in Rural Communities," at the World Newsmedia Network and the Reuters Institute at the University of Oxford on Big Data in England

Prakash, Om, Biochemistry, \$840, Present "NMR Structural insights into the function of norovirus protease and designing of inhibitors" at the 'Frontiers of Biophysics, Biotechnology and Bioinformatics' International Conference in India

Prakash, Punit, Electrical and Computer Engineering, \$1,200, Present "A 3D Treatment Planning Platform for Interstitial Microwave Hyperthermia of Genito-Urinary Cancer" at the Society for Thermal Medicine Annual Meeting in Aruba

Potts, Donna L., English, \$500, Present "Lost in this Landscape's Fierce Embrace: The Poetry of Francis Harvey", "Murdering the Language: The Poetry of Moya Cannon", "The New Pastoral: The Poetry of Eavan Boland", and "Reading of Waking Dream"

Ramm, Alexander G., Mathematics, \$700, Plenary Speaker at 7th International Conference on Advanced Computational Engineering and Experimenting in Spain

Reyes Cuellar, Perla, Statistics, \$2,000, Present "Modeling Network Topology, a Stochastic Blockmodels Approach" at the Bayesian Nonparametrics Conference in Amsterdam, the Netherlands

Sachs, David H., Architecture, \$500, Present "The Abend Singleton Store: The Human Dimension" at the International Conference on Arts in Society in Hungary

Sandercock, Brett K., Biology, \$1,000, Attend Western Hemisphere Shorebird Group meeting in Colombia

Sanders III, Joseph C., English, \$500, Present "Chaperoning Words: Meaning-Making in Comics and Picture Books" at the International Bande Desinee Society Conference in Scotland

Sanders III, Joseph C., English, \$1,500, Present "Neither Subversive nor Incivique: Reevaluating Occupation-Era Tintin" at the Royal Library of Belgium in Brussels

Schrick, Kathrin, Biology, \$500, Present "START Lipid/Sterol Binding Domains in Plant Transcription Factors" at the Gordon Research Conference in Texas

Ugrin, Joseph C., Accounting, \$1,200, Present "An Examination of the Relative Deterrent Effects of Legislated Sanctions on Attitudes about Financial Statement Fraud: A Policy Capturing Approach" at the European Accounting Association Meeting

Veeman, Michael, Biology, \$1,000, Present "Anterior-posterior regionalized gene expression in the Ciona notochord" at the 7th International Tunicate meeting in Italy

Warner, Daniel A, Art, \$500, Present "Edges of the Motion Poster" at Geographics: Design Education and the Transnational Terrain conference in Hawaii

Yao, Weixin, Statistics, \$2,000, Attend Challenges of Statistical Methods for Interdisciplinary Research and Big Data ICSC International Conference in Hong Kong

Yum, Young-Ok, Communication Studies, Theatre, and Dance, \$500, Present "Maintaining romantic relationships in different cultures: A cultural modernization theory perspective" and "Brand competitiveness of China, Japan, and South Korea according to ordinary young Americans" at the International Communication Association conference in London

Zurek, Ludek, Entomology, \$500, Present "Ecology of antibiotic resistance traits: Do insects matter?" at the International Symposium in Antimicrobial Resistance in Animals and Environment in Belgium

Fiscal Year 2013 University Small Research Grants

Ackerman, Patricia E., Salina Arts, Science and Business, \$2,000, "Archival History of Marymount College of Kansas"

Arthaud-Day, Marne, Management, \$2,000, "Longitudinal Model of Educational Attainment and Career Success: How Individual Values, Attitudes, and Emotional Intelligence Change as a Function of Workforce Entry"

Brueseke, Matthew E., Geology, \$2,500, "Mid-Miocene magmatism in the Northern Great Basin (U.S.A.): Links between local Au-Ag precious metal mineralization and the inception of the Yellowstone hotspot"

Chronister, Necia N., Modern Languages, \$1,000, "Depicting the Problems of Re-Privatization Following German Reunification: Archival Research at the MDR Film and Television Archive in Leipzig and the Progress-Film-Archive Berlin, Germany"

Dodd, Elizabeth C., English, \$2,500, "Sea Changes: Dreams in the Anthropocene"

Donnelly, Laura, Communication Studies, Theatre, and Dance, \$2,400, "The Body-Brain Science of Ballet Training"

Durtschi, Jared A., School of Family Studies and Human Services, \$3,000, "Military Couples' Adjustment to First-Time Parenthood Project"

Eshar, David, Clinical Sciences, \$1,000, "Biochemical and hematological values in clinically healthy African Spurred (Sulcata) tortoises (*Geochelone sulcata*)"

Gustafson, David A., Computing and Information Sciences, \$2,500, "Cyber-Security Prototype to Research Platform"

Han, Soo-Hye, Communication Studies, Theatre, and Dance, \$3,000, "Does the medium matter? Examining the face-to-face vs. online deliberation quality"

Kaff, Marilyn S., Special Education, Counseling, and Student Affairs, \$2,000, "Tansanian Tales: Story Gathering"

Kaff, Marilyn S., Special Education, Counseling, and Student Affairs, \$2,500, "Playing naturally: An explanatory study of the impact of a specially selected outdoor play space on the arousal, attention and task completion of children with Autism Spectrum Disorders"

Kang, Ji Hye, Apparel, Textiles, and Interior Design, \$2,000, "Socially responsible apparel purchasing behavior: A cross-cultural investigation of consumers"

Kim, Hyung Jin, Landscape Architecture/Regional and Community Planning, \$2,000, "Barriers and Opportunities for Safe Routes to School in the City of Manhattan: Phase I Plan"

Krysko, Michael, History, \$1,500, "Identifying Radio: American Broadcasting and American Identities, 1920-1950"

Leader-Picone, Cameron, English, \$1,000, "Rearticulating Race: African American Literature in Post-Racial America"

Lewis, Nora, Music, \$3,700, "In Threes: Professional CD Recording of New Music for PEN Trio"

Luly, Sara R., Modern Languages, \$2,000, "A Gothic Science: Gothic Motifs in the Medical Texts of Eighteenth-Century German Magnetists"

Machor, James L., English, \$2,500, "The Mark Twain Papers Archival, Bancroft Library, University of California, Berkeley"

Major, Judith K., Landscape Architecture/Regional and Community Planning, \$1,500, "The Evolution of a Landscape Critic in the Gilded Age: Mariana Griswold Van Rensselaer (forthcoming book from University of Virginia Press, 2013)"

Mladenov, Natalie, Civil Engineering, \$4,000, "Enhancing the intellectual merit of a National Science Foundation Planning Visit to study arsenic mobilization in groundwater of the Okavango Delta of Botswana"

Muturi, Nancy W., School of Journalism and Mass Communications, \$1,000, "Risk of HIV/AIDS among Women in Alcohol-Discordant Relationship in Rural Kenya"

Pakaste, Mervi, Art, \$3,000, "Artist Book Project"

Park, Young Ah, Psychological Sciences, \$2,000, "Dual-Income Couples' Recovery From Job Stress and Its Important Outcomes: A Weekend Design"

Pinkston, Dana M., Communication Studies, Theatre, and Dance, \$2,500, "New York City Theatre Production: Fashionistas"

Riforgiate, Sarah E., Communication Studies, Theatre, and Dance, \$1,500, "Understanding the Role of Communication and Technology in Volunteer Recruitment and Retention Socialization Processes"

Ritterbush, Lauren W., Sociology, Anthropology, and Social Work, \$1,800, "Ethnohistory of the Kansa (Kaw) Indians prior to 1825"

Smith, Jeffrey S., Geography, \$500, "Contemporary Atlas of Kansas"

Vellenga, Jennifer G., Communication Studies, Theatre, and Dance, \$4,900, "New Play Development: The Arctic Cycle-Forward: Norway"

Yelich Biniecki, Susan M., Educational Leadership, \$1,400, "Phenomenological Study of Ecuadorian Educators' Lived Experiences as Participants in a Study Abroad Cohort"

Vellenga, Jennifer G., Communication Studies, Theatre, and Dance, \$2,500, "New York City Theatre Production: Fashionistas"

Vennum, Amber V., School of Family Studies and Human Services, \$3,000, "A Pilot Study on the Effectiveness of School-based Family Therapy"

Voecks, Kathleen K., Communication Studies, Theatre, and Dance, \$2,500, "New York City Theatre Production: Fashionistas"

Yoon, Dukno, Art, \$3,000, "Digital Creation using desktop 3D printer"