

# RESEARCH

— *Kansas State University* —

*2010*



Office of Research and Sponsored Programs



**Vice President for Research**

108 Anderson Hall

Manhattan, KS 66506-0113

785-532-5110

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September 13, 2010

Dear Colleague:

The Office of the Vice President for Research is pleased to provide the attached proposal/award activity report for the period July 1<sup>st</sup>, 2009– June 30<sup>th</sup>, 2010. 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.

If you have any questions regarding the contents of the attached report, you may contact Paul Lowe at [plowe@ksu.edu](mailto:plowe@ksu.edu) or 2-6804 or Susan Klein at [sklein@ksu.edu](mailto:sklein@ksu.edu) or 2-6804.

We hope you continue to find this information useful. As previously mentioned, we plan to provide you with monthly, quarterly, semi-annual, and annual summaries for your review.

Thank you for your continued support and hard work.

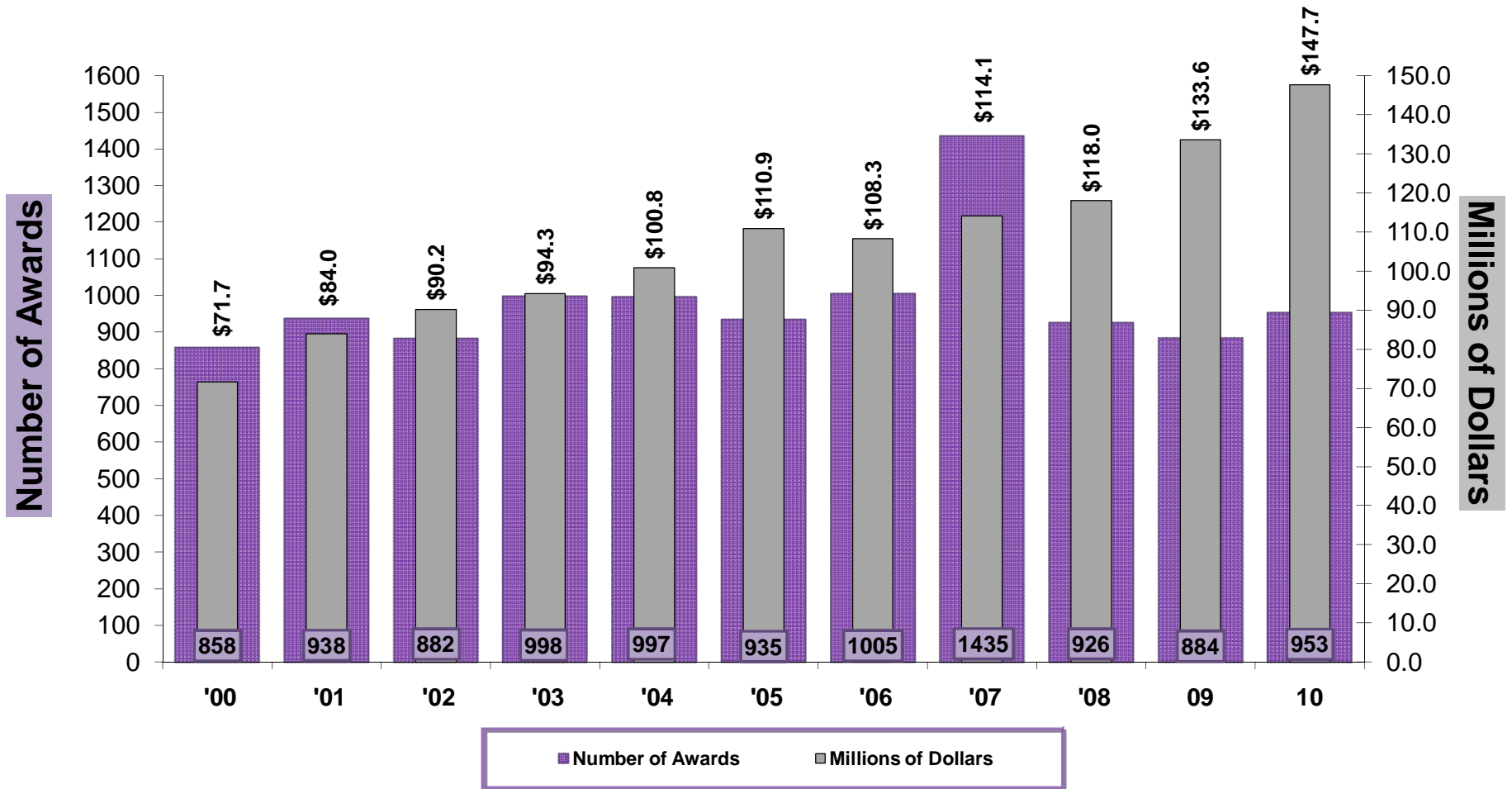
Sincerely,

R.W. Trewyn

Vice President for Research

# KANSAS STATE UNIVERSITY

## Total Extramural Awards and Millions of Dollars Received



# EXTRAMURAL AWARDS

*Fiscal Year 2010 (July 1, 2009 – June 30, 2010)*

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.

FY10 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 **\$147,695,867**

II. Appropriated

Main Campus State Appropriation \$ 5,185,969

Experiment Station Programs and  
Extension Services

Federal Appropriation\* \$ 9,567,943

State Appropriation \$50,082,726

Veterinary Medical Center  
State Appropriation \$ 51,439

SUBTOTAL **\$ 64,888,077**

III. Donated\*\* **\$ 39,809,505**

**RESEARCH/SCHOLARLY ACTIVITY BASE**  
**GRAND TOTAL**

**\$252,393,449**

\*Actual appropriations varied from those budgeted for FY10.

Final congressional budget approval and presidential signature, along with a new president and congress, delayed the final budget process. The final Federal fiscal year budget was unknown until May 2010.

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

## Distribution of New Awards Among College and Offices of the University

<b>College/Office Receiving Awards</b>	<b>Number</b>	<b>Dollar Value</b>
College of Agriculture	375	\$31,743,036
College of Architecture, Planning and Design	4	\$172,343
College of Arts and Sciences	166	\$23,617,786
College of Business Administration	3	\$244,212
College of Education	36	\$6,577,896
College of Engineering	182	\$23,459,046
College of Human Ecology	45	\$21,684,617
College of Technology and Aviation	6	\$3,019,300
College of Veterinary Medicine	78	\$16,350,636
Office of the President	6	\$2,461,566
Office of the Provost	20	\$833,100
Vice President for Administration and Finance	3	\$12,336,290
Vice President for Research	10	\$2,445,882
Vice President for Student Life and Dean of Students	19	\$2,750,158
<b>UNIVERSITY TOTAL</b>	<b>953</b>	<b>\$147,695,867</b>

## Sources of Awards

<b>Sources</b>	<b>Number</b>	<b>Dollar Value</b>
Area/Local Government	8	\$331,656
Department of Agriculture	165	\$43,865,446
Department of Defense	37	\$12,708,911
Department of Education	33	\$20,241,478
Department of Energy	28	\$5,929,221
Department of Health and Human Services	72	\$13,207,756
Environmental Protection Agency	26	\$3,580,425
Foundations	224	\$8,683,153
Industry	109	\$7,639,499
National Science Foundation	108	\$18,481,133
National Aeronautics and Space Administration	5	\$565,062
Other Federal	92	\$8,714,392
State of Kansas	46	\$3,747,735
<b>TOTAL</b>	<b>953</b>	<b>\$147,695,867</b>

## COLLEGE OF AGRICULTURE

### AGRICULTURAL ECONOMICS

**Barnaby Jr, Glenn A., Llewelyn, Richard V., O'Brien, Daniel M., and Woolverton, Michael W.**, US Department of Agriculture, \$49,422, "Risk Management In a New Marketing Era: Integrating Risk Management Tools with SURE and ACRE Programs."

**Barton, David G.**, Multisponsor, \$131,000, "Arthur Capper Cooperative Center."

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

**Bergtold, Jason S., Langemeier, Michael R., Nelson, Richard G.** (Kansas Industrial Extension Services), **Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.**, US Department of Transportation, \$90,667, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Boland, Michael A.**, US Department of Agriculture, \$162,000, "Agricultural Marketing Resources."

**Boland, Michael A.**, US Department of Agriculture, \$73,623, "The Role of Outside Equity in Agricultural Cooperatives."

**Dalton, Timothy J.**, Bill and Melinda Gates Foundation, \$498,006, "Economics of Water Efficient Maize."

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

**Dhuyvetter, Kevin C., Dalton, Timothy J., Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Prasad, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$19,934, "Improving Soil Quality and Crop Productivity through Farmers Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Featherstone, Allen M.**, and **Wilson, Christine**, US Department of Agriculture, \$19,966, "Analyzing and Predicting Farm Stress and Insolvency."

**Featherstone, Allen M.**, and **Langemeier, Michael R.**, US Department of Agriculture, \$15,156, "Impact of Government Payments on Financial Performance, Efficiency and Uses of Funds."

**Golden, Bill B., Gillen, Robert L.** (Agricultural Research Center-Hays), **Lamm, Freddie R.** (Northwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering),

**Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$55,840, "Water Conservation - Increase Efficiency in Usage."

**Golden, Bill B., Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$14,345, "Water Conservation-Increased Efficiency in Usage."

**Golden, Bill B., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, 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, \$50,487, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

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

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

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

**Hund, Duane M., Schurle, Bryan W., and Winsor, Lavell E.,** Kansas Soybean Commission, ""Keeping the Family Farming" Succession Planning Workshops for Kansas Farmers."

**Kastner, Curtis L., Fung, Daniel Y.C.** (Animal Sciences and Industry), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$10,796, "Animal Science Food Safety Consortium - Kansas State University."

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

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

**Langemeier, Michael R., and Featherstone, Allen M.,** US Department of Agriculture, "Impact of Government Payments on Financial Performance, Efficiency and Uses of Funds."

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

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

**Leatherman, John C., Babcock, Michael W.** (Economics), **Dissanayake, Sunanda** (Civil Engineering), **Hossain, Mustaque A.** (Civil Engineering), **Landman, E. Dean** (Civil Engineering), **Russell, Eugene R.** (Civil Engineering), **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.** (Civil Engineering), US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

**Leatherman, John C.**, US Environmental Protection Agency, \$169,084 (includes \$29,025 from cooperating watersheds), "EPA Nine Elements Watershed Planning Technical Assistance."

**Llewelyn, Richard V., Barnaby Jr, Glenn A., O'Brien, Daniel M., and Woolverton, Michael W.**, US Department of Agriculture, "Risk Management In a New Marketing Era: Integrating Risk Management Tools with SURE and ACRE Programs."

**O'Brien, Daniel M., Barnaby Jr, Glenn A., Llewelyn, Richard V., and Woolverton, Michael W.**, US Department of Agriculture, "Risk Management In a New Marketing Era: Integrating Risk Management Tools with SURE and ACRE Programs."

**Peterson, Jeffrey M., Bergtold, Jason S., Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), and **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), National Science Foundation, \$90,491, "Farmers' Decisions to Grow Crops for Fuel."

**Peterson, Jeffrey M., Aistrup, Joseph** (Political Science), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), **Steward, David R.** (Civil Engineering), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$225,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

**Peterson, Jeffrey M., Douglas-Mankin, Kyle R.** (Biological and Agricultural Engineering), **Pfromm, Peter H.** (Chemical Engineering), and **Rezac, Mary E.** (Chemical Engineering), National Science Foundation, \$276,995 (includes \$30,575 from Kansas Bioscience Authority), "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

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

**Schurle, Bryan W., Hund, Duane M., and Winsor, Lavell E.**, Kansas Soybean Commission, \$12,000, ""Keeping the Family Farming" Succession Planning Workshops for Kansas Farmers."

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

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

**Tonsor, Glynn**, US Department of Agriculture, \$376,342, "Ex Post Impact of MCOOL: Extensive Assessment Comparing Novel Demand Estimation Techniques."

**Tonsor, Glynn**, US Department of Agriculture, \$16,710, "Valuation of New Products in the Face of Consumer Income Disparity."

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

**Wilson, Christine**, and **Featherstone, Allen M.**, US Department of Agriculture, "Analyzing and Predicting Farm Stress and Insolvency."

**Winsor, Lavell E., Hund, Duane M.**, and **Schurle, Bryan W.**, Kansas Soybean Commission, ""Keeping the Family Farming" Succession Planning Workshops for Kansas Farmers."

**Woolverton, Michael W., Barnaby Jr, Glenn A., Llewelyn, Richard V.**, and **O'Brien, Daniel M.**, US Department of Agriculture, "Risk Management In a New Marketing Era: Integrating Risk Management Tools with SURE and ACRE Programs."

#### **AGRICULTURAL EXPERIMENT STATION**

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

**Ricketts, Mitchell S.**, US Department of Labor, \$123,010, "Occupational Safety and Health Training for Landscaping and Tree Services."

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

**Blanco, Humberto, Janssen, Keith A.** (Agronomy), **Olson, Brian L.** (Northwest Area Office), and **Presley, DeAnn R.** (Agronomy), Kansas Corn Commission, \$27,377, "Impacts of Corn Stover Removal for Biofuel on Crop Production, Soil and Water Quality."

**Blanco, Humberto, Aiken, Robert M.** (Northwest Research Extension Center), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, 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, \$15,146, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Gillen, Robert L.**, and **Aiken, Robert M.** (Northwest Area Office), The United Sorghum Checkoff Program Board, \$40,000, "Development of Sorghum Germplasm with Enhanced Cold and Drought Tolerance and Higher Grain Yield."

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

**Devlin, Daniel L., Barden, Charles J.** (Horticulture, Forestry and Recreation Resources), and **DeRouchey, Joel M.** (Animal Sciences and Industry), US Department of Agriculture, \$71,123, "Heartland Regional Water Coordination Initiative."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, \$32,822, "Kanopolis Reservoir - Big Creek Middle Smoky Hill River Watersheds WRAPS Implementation."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, \$124,148, "Little Arkansas WRAPS Implementation."

**Devlin, Daniel L., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, \$17,675 (includes \$17,675 from buffer coordinators & cooperator support), "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

**Fick, Walter H.,** Multisponsor, \$18,700, "Range and Pasture Brush and Weed Control."

**Fritz, Allan K.,** Kansas Crop Improvement Association, \$9,600, "Enhanced Disease/Insect Resistance in Hard White Wheats."

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

**Fritz, Allan K.,** Kansas Crop Improvement Association, \$10,000, "Performance of Wheat Varieties in No-Till Systems."

**Fritz, Allan K., and Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$230,000, "Improvement of Hard Red Winter Wheat for Kansas."

**Fritz, Allan K.,** Kansas Wheat Commission, \$59,000, "Improvement of Hard White Winter Wheat for Kansas."

**Fritz, Allan K., Madl, Ronald L.** (Grain Science and Industry), and **Smith, C. Michael** (Entomology), Kansas Wheat Commission, \$8,323, "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.,** Monsanto Company, \$500,000, "Wheat Research Collaboration Agreement."

**Fritz, Allan K.,** US Department of Agriculture, \$90,225, "Wheat Applied Genomics."

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

**Heer, William F., Roozeboom, Kraig L., Shroyer, James P., and Stamm, Michael J.**, Kansas Wheat Commission, "Improving Wheat Quality and Yield through Crop Rotation."

**Hettiarachchi, Ganga M., and Nelson, Nathan O.**, US Department of Agriculture, \$24,000, "Phytoremediation Database Development."

**Janssen, Keith A., Blanco, Humberto** (Agricultural Research Center-Hays), **Olson, Brian L.** (Northwest Area Office), and **Presley, DeAnn R.**, Kansas Corn Commission, "Impacts of Corn Stover Removal for Biofuel on Crop Production, Soil and Water Quality."

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

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

**Kirkham, Mary B., and Williams, Kimberly A.** (Horticulture, Forestry and Recreation Resources), Gloeckner Foundation, Inc. (Fred C.), \$3,000, "Causes and Management of the Physiological Disorder Edema on Greenhouse Crops."

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

**Lingenfelser, Jane E., and Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$1,000, "Evaluation of Common Soybean Varieties in Southeast KS."

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

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

**Mengel, David B.**, Kansas Grain Sorghum Commission, \$18,000, "Enhancing Sorghum Yield and Profitability through Efficient Nitrogen Management: Phase II."

**Mengel, David B., and Ruiz Diaz Suarez, Dorivar A.**, Kansas Soybean Commission, \$31,695, "Correction of Potassium Deficiency in Soybean Production in Kansas."

**Mengel, David B., and Ruiz Diaz Suarez, Dorivar A.**, Kansas Soybean Commission, "Iron Deficiency Chlorosis in Soybean: Effect of Soil Properties and Iron Fertilizer Application."

**Mengel, David B.**, Kansas Wheat Commission, \$33,227, "Enhancing Nutrient Use Efficiency and Reducing the Cost of Wheat Production in Kansas."

**Mengel, David B., and Minton, J. Ernest**, Oklahoma State University, \$24,000, "Memorandum of Understanding between Kansas State University and the Oklahoma Agricultural Experiment Station for Salary Support: Joint Canola Breeding and Management Program."

**Mengel, David B.**, The United Sorghum Checkoff Program Board, \$20,000, "Enhancing Sorghum Yield and Profitability through Efficient Nitrogen Management."

**Mengel, David B., and Ruiz Diaz Suarez, Dorivar A.**, The United Sorghum Checkoff Program Board, \$10,000, "Enhancing Sorghum Yield and Profitability through Efficient Nitrogen Management."

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

**Minton, J. Ernest, and Pierzynski, Gary M.**, US Department of Agriculture, \$12,056, "USDA/ARS Research Support Agreement #58-5430-9-915."

**Nelson, Nathan O., Maddux, Larry D., Marsh, Brian H., and Pierzynski, Gary M.**, Multisponsor, \$22,500, "Soil Fertility and Soil Management Investigations."

**Nelson, Nathan O., and Hettiarachchi, Ganga M.**, US Department of Agriculture, "Phytoremediation Database Development."

**Peterson, Dallas E., and Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, \$1,311, "Managing Maretail in No-Till Soybean Systems."

**Peterson, Dallas E.**, Monsanto Company, \$6,000, "Develop and Define Weed Control System Recommendations for Dicamba-tolerant Soybean."

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

**Pierzynski, Gary M.**, US Department of Agriculture, \$445,878, "Development of Abiotic Stress Resistant Wheat Germplasm."

**Pierzynski, Gary M.**, US Department of Agriculture, \$80,000, "Development of Enhanced Features, Improved Documentation and Expanded Databases for NRCS WEPS Release."

**Pierzynski, Gary M.**, US Department of Agriculture, \$9,641, "Development of Enhanced Features, Improved Documentation and Expanded Databases for WEPS."

**Pierzynski, Gary M.**, US Department of Agriculture, \$90,000, "Incorporation of the Wind Erosion Prediction System (WEPS) within a Comprehensive Regional Air Quality Model."

**Pierzynski, Gary M., and Minton, J. Ernest**, US Department of Agriculture, "USDA/ARS Research Support Agreement #58-5430-9-915."

**Prasad, P. V. Vara, and Fritz, Allan K.**, Kansas Crop Improvement Association, \$14,000, "Evaluation of Drought and Heat Tolerance in Wheat."

**Prasad, P. V. Vara, and Yu, Jianming**, Kansas Grain Sorghum Commission, "Improving Drought Tolerance in Sorghum through Association Mapping."

**Prasad, P. V. Vara, Roozeboom, Kraig L., Vadlani, Praveen V., and Yu, Jianming** (Grain Science and Industry), Kansas Grain Sorghum Commission, \$23,100, "Screening Sorghum Germplasm for Drought and Heat Tolerance."

**Prasad, P. V. Vara, and Fu, Jianming**, Kansas Wheat Commission, \$30,000, "Assessment of Heat Tolerance in Genetically Engineered Wheat."

**Prasad, P. V. Vara, and Roozeboom, Kraig L.**, The United Sorghum Checkoff Program Board, "Update Publication on Growth, Development and Nutrient Uptake of Grain Sorghum."

**Prasad, P. V. Vara, and Roozeboom, Kraig L.**, The United Sorghum Checkoff Program Board, "Update Publication on Growth, Development, and Nutrition Uptake of Sorghum."

**Prasad, P. V. Vara, Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Presley, DeAnn R., Rice, Charles W., Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.**, US Agency for International Development, \$149,506, "Improving Soil Quality and Crop Productivity through Farmers Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

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

**Prasad, P. V. Vara, and Staggenborg, Scott A.**, US Agency for International Development, \$50,000, "Transfer of Sorghum and Millet Production, Processing and Marketing Technologies in Mali - Training Component."

**Prasad, P. V. Vara, Minton, J. Ernest** (Dean of Agriculture and Director of AES), and **Staggenborg, Scott A.**, US Department of Agriculture, \$480,128, "Great Plains Sorghum and Utilization Center."

**Prasad, P. V. Vara, Minton, J. Ernest** (Dean of Agriculture and Director of AES), and **Staggenborg, Scott A.**, US Department of Agriculture, \$930,668, "Great Plains Sorghum Improvement and Utilization Center."

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**Phebus, Randall K.**, XIM Group LLC, \$18,750, "Laboratory Evaluation of the Efficacy of Novel Antimicrobials for Food and Environmental Applications."

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**Smith, John F.**, and **Bradford, Barry J.**, Elanco Animal Health, "Effects of Rumensin on Milk Production Efficiency and Metabolic Health of Transition Dairy Cattle."

**Stevenson, Jeffrey S.**, Select Sires, \$20,000, "Effects of Supplemental Progesterone and Timing of Pregnancy Diagnosis on Resynchronization of Lactating Dairy Cows."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Ajinomoto Heartland LLC, \$50,000, "Optimal use of Synthetic Amino Acids in Diets for 15 to 25 lb Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Ajinomoto Heartland LLC, \$50,000, "Optimal Use of Synthetic Amino Acids in Diets for 15 to 26 lb Pigs: II."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Danisco Animal Nutrition, "Determine the Effects of Dietary Enzymes in Diets Containing High-Fiber Co-Products on the Growth Performance and Nutrient Digestibility of Finishing Pigs."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Elanco Animal Health, "Effects of Pellet Binders on Pellet Quality - Trial 2."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Engrain, LLC, "Evaluation of Novel Enzyme Blend on Nursery Pig Performance II."

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

**Tokach, Michael D., DeRouchey, Joel M.**, and **Goodband, Robert D.**, The United Sorghum Checkoff Program Board, \$15,000, "Feeding Value of Sorghum and Sorghum DDGS for Swine (Marketing Agreement)."

**Unruh, John A., Blasi, Dale A., Dikeman, Michael E., Drouillard, James S., Houser, Terry A.**, and **Olson, K C**, National Cattlemen's Beef Association, "Effects of Supplementing DDGS to Heavy,

Yearling Stocker Cattle during the Last 90 Days of Grazing to Improve Carcass Characteristics when Utilizing a Short Feeding Protocol."

## **COMMUNICATIONS**

**Boone, Kristina M., Edwards, Elaine H., Melgares, Patrick J., and Zimmerli-Cates, Nancy J.**, FINRA Investor Education Foundation, \$47,500, "Marketing Online Investor Education: Investing for Your Future for Farm Families (IFFF)."

**Edwards, Elaine H., Boone, Kristina M., Melgares, Patrick J., and Zimmerli-Cates, Nancy J.**, FINRA Investor Education Foundation, "Marketing Online Investor Education: Investing for Your Future for Farm Families (IFFF)."

**Lavergne, Christopher B.**, State Farm Insurance, \$28,936, "Midwest Water Conservation Project: Development and Marketing of Rain Barrels."

**Melgares, Patrick J., Boone, Kristina M., Edwards, Elaine H., and Zimmerli-Cates, Nancy J.**, FINRA Investor Education Foundation, "Marketing Online Investor Education: Investing for Your Future for Farm Families (IFFF)."

**Zimmerli-Cates, Nancy J., Boone, Kristina M., Edwards, Elaine H., and Melgares, Patrick J.**, FINRA Investor Education Foundation, "Marketing Online Investor Education: Investing for Your Future for Farm Families (IFFF)."

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

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

**Lilja, Nina, and Michie, Barry H.** (International Programs), US Agency for International Development, \$22,376, "Experience America AMG-KSU: Cultural Interfacing for FATA Youth in the US."

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

**Minton, J. Ernest, Prasad, P. V. Vara** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, "Great Plains Sorghum and Utilization Center."

**Minton, J. Ernest, Prasad, P. V. Vara** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, "Great Plains Sorghum Improvement and Utilization Center."

**Wilson, Ron J.**, Kansas Agriculture and Rural Leadership, Inc., \$19,142, "Secretarial Support - Huck Boyd National Institute for Rural Development."

## **ENTOMOLOGY**

**Beeman, Richard W., Arakane, Yasuyuki** (Biochemistry), **Kanost, Michael R.** (Biochemistry), **Kramer, Karl J.** (Biochemistry), and **Muthukrishnan, Subbarat** (Biochemistry), National Science Foundation, \$1,500, "Integrated Functional Genomics Investigation of Chitin Metabolism and Its Role in Insect Growth and Development."

**Broce, Alberto B., and Zurek, Ludek**, Multisponsor, \$21,000, "Methods for Control of Livestock Insects."

**Buschman, Larry L., McCornack, Brian P., Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael**, and **Whitworth, Robert "Jeff" J.**, Kansas Soybean Commission, \$32,209, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

**Buschman, Larry L.**, Multisponsor, \$41,000, "Insecticide Management of Field Crop Insects in Southwestern Kansas."

**Buschman, Larry L.**, Pioneer Hi-Bred International, Inc., \$30,000, "European Corn Borer Project."

**Chen, Ming-Shun, McCornack, Brian P., Sloderbeck, Phillip E.** (Southwest Area Office), and **Whitworth, Robert "Jeff" J.**, Kansas Wheat Commission, "Biotype Survey and Integrated Management of the Hessian Fly, Bird Cherry-Oat Aphid, and Greenbugs in Kansas."

**Cloyd, Raymond A., and Zhu, Kun Yan**, American Floral Endowment, \$25,000, "Effect of Pesticide Mixtures in Controlling Arthropod Pests of Greenhouses."

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

**Cloyd, Raymond A., and Zhu, Kun Yan**, National Foliage Foundation, \$28,000, "Resistance of Soft Scale and Mealybug Pests to Insecticide Commonly Used in Interior Landscapes."

**Harvey, Tom L., and Michaud, John P.**, Multisponsor, \$6,500, "Insecticide Management of Field Crop Insects."

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

**Margolies, David C., Boyer Jr, John E.** (Statistics), **Kennelly, Megan** (Plant Pathology), and **Nechols, James R.**, US Department of Agriculture, \$63,195, "Use of Elicitors of Innate Plant Defense to Reduce Incidence of Tomato Spotted Wilt Virus in Greenhouse-grown Crops."

**Marshall, Jeremy L.**, National Science Foundation, \$23,800, "Collaborative Research: The Genetics of Postmating, Prezygotic Isolation."

**McCornack, Brian P., Chen, Ming-Shun, Sloderbeck, Phillip E.** (Southwest Area Office), and **Whitworth, Robert "Jeff" J.**, Kansas Wheat Commission, "Biotype Survey and Integrated Management of the Hessian Fly, Bird Cherry-Oat Aphid, and Greenbugs in Kansas."

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

**McCornack, Brian P.**, and **Reese, John C.**, North Central Soybean Research Program, "Soybean Aphid Management, Biocontrol and Host Plant Resistance."

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

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

**Minton, J. Ernest**, US Department of Agriculture, \$2,750, "USDA/ARS Research Support Agreement #58-5430-9-913."

**Nechols, James R., Boyer Jr, John E.** (Statistics), **Kennelly, Megan** (Plant Pathology), and **Margolies, David C.**, US Department of Agriculture, "Use of Elicitors of Innate Plant Defense to Reduce Incidence of Tomato Spotted Wilt Virus in Greenhouse-grown Crops."

**Park, Yoonseong**, US Department of Agriculture, \$11,070, "Bioengineering of Insect Genomes and Related Applications in Management of Insect Populations."

**Park, Yoonseong**, US Department of Health and Human Services, \$183,150, "Neuropeptidergic Control of the Salivary Gland in the Black-Legged Tick, *Ixodes Scapularis*."

**Park, Yoonseong**, US Department of Health and Human Services, \$342,609, "Signaling Pathways for Tick Salivary Secretion."

**Phillips, Thomas W.**, Institute of International Education, \$20,000, "Scholar Rescue Fund Fellowship for Dr. Shah Alam Khan."

**Phillips, Thomas W.**, US Department of Agriculture, \$100,000, "Molecular Mechanisms of Wheat Resistance to the Hessian Fly."

**Ramalho-Ortigao, Marcelo**, US Civilian Research and Development Foundation, \$5,890, "Salivary Expression Profile of Natural Populations of *P. papatasi* Sand Flies in Tunisia and Impact on Zoonotic Cutaneous Leishmaniasis Transmission."

**Ramalho-Ortigao, Marcelo**, US Department of Health and Human Services, \$293,040, "*P. papatasi* Midgut Molecules: Gene Function and Assessing TBV Candidates."

**Ramalho-Ortigao, Marcelo**, US Department of Health and Human Services, \$21,093, "*P. Papatasi* Midgut Molecules: Gene Function and Assessing TBV Candidates."

**Ramalho-Ortigao, Marcelo**, US Department of Health and Human Services, \$92,500, "*P. papatasi* Midgut Molecules: Gene Function and Assessing TBV Candidates (Administrative Supplement)."

**Ramalho-Ortigao, Marcelo**, US Department of Health and Human Services, \$230,879, "Sand Fly Role in Transmission of CVL in North America."

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

**Reese, John C., and McCornack, Brian P.**, North Central Soybean Research Program, \$45,090, "Soybean Aphid Management, Biocontrol and Host Plant Resistance."

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

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

**Smith, C. Michael**, and **Whitfield, Anna E.** (Plant Pathology), Kansas Wheat Commission, \$22,262, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

**Smith, C. Michael, Fritz, Allan K.** (Agronomy), and **Madl, Ronald L.** (Grain Science and Industry), Kansas Wheat Commission, \$8,323, "Induction of Wheat Antioxidants to Consistent Commercial Levels."

**Whitworth, Robert "Jeff" J.**, Dow AgroSciences, LLC, \$2,500, "Evaluation Agreement."

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

**Whitworth, Robert "Jeff" J., Chen, Ming-Shun, McCornack, Brian P., and Sloderbeck, Phillip E.** (Southwest Area Office), Kansas Wheat Commission, \$42,000, "Biotype Survey and Integrated Management of the Hessian Fly, Bird Cherry-Oat Aphid, and Greenbugs in Kansas."

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

**Whitworth, Robert "Jeff" J., Jardine, Douglas J.** (Plant Pathology), and **Stack, James P.** (Plant Pathology), US Department of Agriculture, \$130, "Continued Development of the IPM PIPE Risk Management Tool Kansas Component IPM PIPE 2008."

**Wilde, Gerald E., Cloyd, Raymond A., Reese, John C., and Whitworth, Robert "Jeff" J.**, Multisponsor, \$84,700, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

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

**Zhu, Kun Yan**, and **Cloyd, Raymond A.**, National Foliage Foundation, "Resistance of Soft Scale and Mealybug Pests to Insecticide Commonly Used in Interior Plantscapes."

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

**Zurek, Ludek**, US Department of Agriculture, \$92,711, "Development and Implementation of Novel Strategies for Stable Fly IPM."

**Zurek, Ludek**, US Department of Defense, \$3,500, "Active Duty Military Entomologist Support Grant."

**Zurek, Ludek, Harrington Jr, John A.** (Geography), **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Data Collection to Support NBAF Risk Assessment."

### **FOOD SCIENCE INSTITUTE**

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

**Kastner, Curtis L., Fung, Daniel Y.C.** (Animal Sciences and Industry), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$101,052, "Animal Science Food Safety Consortium - Kansas State University."

**Kastner, Curtis L., Fung, Daniel Y.C.** (Animal Sciences and Industry), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$107,959, "Animal Science Food Safety Consortium - Kansas State University."

**Kastner, Curtis L., Getty, Kelly J. K., Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, \$9,461, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

### **GRAIN SCIENCE AND INDUSTRY**

**Alavi, Sajid, Adhikari, Koushik** (Human Nutrition), and **Tang, Xiaoyan**, Kansas Soybean Commission, \$31,425, "Novel Soy-based Savory Snacks using Extrusion Processing."

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

**Bhadriraju, Subramanyam, Channaiah, Lakshmikantha, Maier, Dirk E.**, and **McKinney, Leland**, Kansas Wheat Commission, \$35,000, "Demonstration Trials to Verify Cost-effectiveness of New Insect Pest Management Strategies in Producer-managed Bins."

**Bhadriraju, Subramanyam**, Multisponsor, \$104,070, "Grain Science."

**Channaiah, Lakshmikantha, Bhadriraju, Subramanyam, Maier, Dirk E., and McKinney, Leland,** Kansas Wheat Commission, "Demonstration Trials to Verify Cost-effectiveness of New Insect Pest Management Strategies in Producer-managed Bins."

**Faubion, Jon M., and Shi, Yong Cheng,** US Department of Agriculture, "Interactions between Wheat Starch and Emulsifiers and Implications in Baking Applications."

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

**Fowler, Mark, and Maier, Dirk E.,** Kansas Soybean Commission, "Market Development Grant - International Grains Program."

**Fowler, Mark, and McKinney, Leland,** Kansas Wheat Commission, "2010 Kansas Hard Red Winter Wheat Quality Survey and Marketing 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 McKinney, Leland,** The United Sorghum Checkoff Program Board, "National Grain Sorghum Quality Survey."

**Gwartz, Jeffrey A.,** US Department of Agriculture, \$5,000, "Relationships Between Sorghum Grain Attributes, Milling Quality, and Flour Quality/Functionality."

**Lookhart, George L., and Culbertson, Christopher T. (Chemistry),** Kansas Wheat Commission, \$75,000, "Development and Use of 'Lab on a Chip' Technology to Provide Varietal Identification for Quality Production in Less than 90 Seconds."

**Madl, Ronald L., O'Brien, Daniel M. (Northwest Area Office), and Vadlani, Praveen V.,** Kansas Soybean Commission, "Nutritional Enhancement of Soybean Carbohydrates and Hulls for Animal Feed using Microbial Cultures."

**Madl, Ronald L.,** Kansas Technology Enterprise Corporation, \$31,250 (includes \$10,000 from USDA ARS GMPRC), "Mechanism for Enhancing Wheat Antioxidant Activity."

**Madl, Ronald L., Fritz, Allan K. (Agronomy), and Smith, C. Michael (Entomology),** Kansas Wheat Commission, \$16,645, "Induction of Wheat Antioxidants to Consistent Commercial Levels."

**Madl, Ronald L., Nelson, Richard G. (Kansas Industrial Extension Services), and Rezac, Mary E. (Chemical Engineering),** National Science Foundation, "I/UCRC Center for Bioenergy Research and Development."

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

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

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

**Maier, Dirk E.**, and **McKinney, Leland**, American Feed Industry Association, "Memorandum of Understanding Between American Feed Industry Association and Kansas State University: AFIA 501."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 525 Course Development Facilitation."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 530 Course Development Facilitation."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 543 Course Development Facilitation."

**Maier, Dirk E.**, Grain Elevator & Processing Society, \$10,000, "Memorandum of Agreement - GEAPS 580 Course Development Facilitation."

**Maier, Dirk E., Fowler, Mark**, and **O'Neil III, Howard J.**, Kansas Corn Commission, \$50,000, "Market Development Grant - International Grains Program."

**Maier, Dirk E., Bhadriraju, Subramanyam**, and **McKinney, Leland**, Kansas Corn Commission, \$28,242, "Use of Carbon Dioxide Sensors for Early Detection of Spoilage in Stored Corn."

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

**Maier, Dirk E., Bhadriraju, Subramanyam, Channaiah, Lakshmikantha**, and **McKinney, Leland**, Kansas Wheat Commission, "Demonstration Trials to Verify Cost-effectiveness of New Insect Pest Management Strategies in Producer-managed Bins."

**Maier, Dirk E., Fowler, Mark**, and **O'Neil III, Howard J.**, Kansas Wheat Commission, \$150,000, "Market Development Grant - International Grains Program Support Project."

**Maier, Dirk E., Anderson, Dawn L.** (Dean of Human Ecology), **Maes, Sue C.** (Dean of Continuing Education), and **Rezac, Mary E.** (Chemical Engineering), US Department of Agriculture, "Biobased Products and Bioenergy Multi-University Graduate Program."

**Maier, Dirk E.**, and **O'Neil III, Howard J.**, US Department of Agriculture, \$11,110, "India SAMS."

**McKinney, Leland**, and **Maier, Dirk E.**, American Feed Industry Association, \$7,000, "Memorandum of Understanding Between American Feed Industry Association and Kansas State University: AFIA 501."

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

**McKinney, Leland, and Fowler, Mark**, Kansas Wheat Commission, \$27,000, "2010 Kansas Hard Red Winter Wheat Quality Survey and Marketing Program."

**McKinney, Leland, Bhadriraju, Subramanyam, Channaiah, Lakshmikantha, and Maier, Dirk E.**, Kansas Wheat Commission, "Demonstration Trials to Verify Cost-effectiveness of New Insect Pest Management Strategies in Producer-managed Bins."

**McKinney, Leland, and Fowler, Mark**, The United Sorghum Checkoff Program Board, \$63,400, "National Grain Sorghum Quality Survey."

**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."

**O'Neil III, Howard J., and Maier, Dirk E.**, US Department of Agriculture, "India SAMS."

**Shi, Yong Cheng**, DMV-Fonterra Excipients GmbH & Co. KG, \$230,230, "Memorandum of Agreement."

**Shi, Yong Cheng, and Haub, Mark D.** (Human Nutrition), The United Sorghum Checkoff Program Board, \$20,485, "Developing Healthy Foods from Special Sorghums."

**Shi, Yong Cheng**, US Department of Agriculture, \$63,000, "Evaluating Cereal Starch and Protein Digestibility."

**Shi, Yong Cheng, and Faubion, Jon M.**, US Department of Agriculture, \$93,797 (includes \$54,579 from industry match), "Interactions between Wheat Starch and Emulsifiers and Implications in Baking Applications."

**Shi, Yong Cheng**, Wm. Wrigley Jr. Company, \$118,862, "Sponsored Research Agreement- Starch Derivatives."

**Sun, X. Susan, and Wang, Donghai** (Biological and Agricultural Engineering), Kansas Soybean Commission, \$30,420, "Soy Oil Latex for Pressure Sensitive Adhesives."

**Sun, X. Susan, and Wang, Donghai** (Biological and Agricultural Engineering), The United Sorghum Checkoff Program Board, \$30,087, "Protein Adhesives from Low-Cost Sorghum DDGS."

**Sun, X. Susan, and Wang, Donghai** (Biological and Agricultural Engineering), The United Sorghum Checkoff Program Board, \$15,789, "Protein Adhesives from Low-Cost Sorghum DDGS."

**Sun, X. Susan, and Wang, Donghai** (Biological and Agricultural Engineering), US Department of Agriculture, \$13,333, "Sorghum Protein Adhesives from Low Cost DDGS."

**Tang, Xiaoyan, Adhikari, Koushik** (Human Nutrition), and **Alavi, Sajid**, Kansas Soybean Commission, "Novel Soy-based Savory Snacks using Extrusion Processing."

**Vadlani, Praveen V., Madl, Ronald L., and O'Brien, Daniel M.** (Northwest Area Office), Kansas Soybean Commission, \$31,022, "Nutritional Enhancement of Soybean Carbohydrates and Hulls for Animal Feed using Microbial Cultures."

**Vadlani, Praveen V.**, MeadWestvaco Corporation - North Carolina, \$9,000, "Matching Funds for Consortium for Plant Biotechnology Research Project."

**Vadlani, Praveen V.**, US Department of Agriculture, \$24,981, "Borlaug Fellowship Program for the Philippines."

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

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

**Barden, Charles J., DeRouchey, Joel M.** (Animal Sciences and Industry), and **Devlin, Daniel L.** (Agronomy), US Department of Agriculture, \$55,318, "Heartland Regional Water Coordination Initiative."

**Boyer, Cheryl R.**, US Department of Agriculture, \$29,268, "Development of Alternative Substrates for Container Nursery Crops."

**Boyer, Cheryl R., Griffin, Jason,** and **Kennelly, Megan** (Plant Pathology), US Department of Agriculture, "Rediscovering Conifers in Kansas."

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

**Fry, Jack D., Bremer, Dale J., Griffin, Jason,** and **Keeley, Steven J.**, Multisponsor, \$59,042, "Turfgrass Investigations."

**Fry, Jack D.**, National Turfgrass Federation, \$4,000, "Turfgrass Testing."

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

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

**Griffin, Jason**, Tree Research and Education Endowment Fund, \$7,000, "Investigations into pine wilt resistant *Pinus Sylvestris*."

**Griffin, Jason, Boyer, Cheryl R.,** and **Kennelly, Megan** (Plant Pathology), US Department of Agriculture, \$35,750, "Rediscovering Conifers in Kansas."

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

**Park, Sunghun**, HI Green System, \$200,002, "Metabolic Engineering of Health-Promoting Phytochemicals in Tomato."

**Park, Sunghun**, National Horticultural Research Institute, Republic of Korea, \$40,000, "Biotechnology for Improving Nutritional Quality of Horticultural Crops: Identification and Functional Characterization of Genes Regulating Biosynthesis and Accumulation of Micronutrients in Vegetable Crops."

**Park, Sunghun, Khang, Chang Hyun** (Plant Pathology), and **Valent, Barbara S.** (Plant Pathology), US Department of Agriculture, "On the Mechanism of Secretion of Rice Blast Effectors Inside Living Rice Cells."

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

**Reid, William R.**, University of Missouri, \$8,944, "Missouri Pecan Growers."

**Ricketts, Mitchell S.**, US Department of Labor, \$30,752, "Occupational Safety and Health Training for Landscaping and Tree Services."

**Stevens, Alan B.**, US Department of Agriculture, \$34,000, "High Tunnels-Essential Equipment for the Speciality Crop Farmer."

**Williams, Kimberly A.**, and **Kirkham, Mary B.** (Agronomy), Gloeckner Foundation, Inc. (Fred C.), \$3,000, "Causes and Management of the Physiological Disorder Edema on Greenhouse Crops."

**Williams, Kimberly A.**, Multisponsor, \$3,140, "Floriculture Research."

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

**Graham, Steven M., 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), **Minton, J. Ernest, Prasad, 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, \$146,412, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Graham, Steven M.**, and **Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$123,868 (includes \$25,500 from in-kind support from Sedwick County), "E.A.R.T.H. - Earth Awareness Researchers for Tomorrow's Habitat."

**Graham, Steven M.**, and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$131,287, "Kanopolis Reservoir - Big Creek Middle Smoky Hill River Watersheds WRAPS Implementation."

**Graham, Steven M.**, and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$31,037, "Little Arkansas WRAPS Implementation."

**Graham, Steven M., and Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$17,675 (includes \$17,675 from buffer coordinators & cooperator support), "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

**Hargrove, William L., and Boggs, Donald L.** (Office of Academic Programs), French American Cultural Exchange (FACE) Council, \$6,205, "Natural Resources and Environmental Management for Sustainability: An International Joint Program."

**Hargrove, William L.,** Kansas Department of Health and Environment, \$5,675 (includes \$5,675 from cooperator support), "KS WRAPS: Watershed Specialist Lower Blue Lower Republican."

**Hargrove, William L.,** Kansas Department of Health and Environment, \$94,979 (includes \$15,520 from in-kind support), "KS WRAPS: Watershed Specialist Lower Republican."

**Hargrove, William L.,** Kansas Department of Health and Environment, \$136,284 (includes \$25,700 from cooperator support), "KS WRAPS: Watershed Specialist Marais des Cygnes River Basin."

**Hargrove, William L., Devlin, Daniel L., Douglas-Mankin, Kyle R.** (Biological and Agricultural Engineering), **Graham, Steven M., and Nejadhashemi, Amirpouyan** (Biological and Agricultural Engineering), US Department of the Interior, \$142,975 (includes \$50,640 from University of Kansas), "Kansas Water Resources Research Institute."

**Harner III, Joseph P., and Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$50,000, "Kansas Environmental Leadership Program (KELP) 2010."

**Minton, J. Ernest, Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M., Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Prasad, 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."

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

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

**Aiken, Robert M.,** Multisponsor, \$8,000, "Sunflower Investigations."

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

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

**Aiken, Robert M., Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag

Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R., Minton, J. Ernest** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, 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, \$141,364, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Coyne, Patrick J.**, Multisponsor, \$24,840, "Sunflower Performance Testing Program."

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

**Lamm, Freddie R., Aiken, Robert M.**, and **O'Brien, Daniel M.** (Northwest Area Office), National Sunflower Association, \$7,840, "Managing Deficit Sprinkler Irrigation for Sunflower Production."

**Lamm, Freddie R.**, Syngenta Corporation, \$45,000, "Invinsa Timing by Irrigation Level Study under Sprinkler Irrigation, 2010."

**Lamm, Freddie R.**, Syngenta Corporation, \$65,000, "Research and Materials Transfer Agreement."

**Lamm, Freddie R., Gillen, Robert L.** (Agricultural Research Center-Hays), **Golden, Bill B.** (Agricultural Economics), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$51,187, "Water Conservation - Increase Efficiency in Usage."

**Lamm, Freddie R., Golden, Bill B.** (Agricultural Economics), **Klocke, Norman L.** (Southwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$17,176, "Water Conservation- Increased Efficiency in Usage."

**Lamm, Freddie R., Aiken, Robert M., Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, 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."

**Olson, Brian L.**, and **Al-Khatib, Kassim** (Agronomy), The United Sorghum Checkoff Program Board, "Optimization and Education Program for Herbicide Resistant Technology in Sorghum."

## **OFFICE OF ACADEMIC PROGRAMS**

**Boggs, Donald L.**, and **Hargrove, William L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), French American Cultural Exchange (FACE) Council, \$6,205, "Natural Resources and Environmental Management for Sustainability: An International Joint Program."

**Boggs, Donald L.**, Kansas FFA Foundation, \$141,363, "FFA Foundation Executive Director."

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

## **PLANT PATHOLOGY**

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

**Akhunov, Eduard D., Akhunova, Alina, and Gill, Bikram S.**, Kansas Wheat Commission, \$40,000, "Using New Sequencing Technologies for Discovery of Agronomically Important Genes for Kansas Wheat Industry."

**Akhunov, Eduard D.**, US Department of Agriculture, \$441,000, "Single Nucleotide Polymorphism (SNP) Markers for High-throughput Genotyping to Advance Genomic, Genetic and Breeding Research in Wheat."

**Akhunova, Alina, Akhunov, Eduard D., and Gill, Bikram S.**, Kansas Wheat Commission, "Using New Sequencing Technologies for Discovery of Agronomically Important Genes for Kansas Wheat Industry."

**Bockus, William W.**, Kansas Crop Improvement Association, \$8,000, "Do Foliar Wheat Diseases Mask the Advantage of Large Seed vs. Small Seed?."

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

**Bockus, William W.**, Multisponsor, \$5,150, "Seed Treatment."

**Bockus, William W.**, US Department of Agriculture, \$37,342, "Development of Scab Resistant Wheat Cultivars for Kansas."

**DeWolf, Erick D.**, Multisponsor, \$1,600, "Winter Wheat Seed Treatment Tests."

**DeWolf, Erick D.**, US Department of Agriculture, \$45,275, "Prediction Models and Improved Pre-Harvest Estimates of Deoxynivalenol."

**DeWolf, Erick D., and Seifers, Dallas L.** (Agricultural Research Center-Hays), US Department of Agriculture, \$17,641, "Regional Distribution and Host Range of Triticum Mosaic Virus, an Emerging Virus of Wheat, and its Potential Impact on Wheat Production."

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

**Friebe, Bernd**, Kansas Crop Improvement Association, \$13,400, "Transfer of New Sources of Barley Yellow Dwarf Resistance from *Haynaldia villosa* to Adapted Kansas Winter Wheats."

**Garrett, Karen A., Jumpponen, Ari M.** (Biology), and **Kennelly, Megan**, The Ceres Trust, \$30,699, "The Response of Soil Microbial Communities to Organic and Conventional Fertilization."

**Garrett, Karen A., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Prasad, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$9,967, "Improving Soil Quality and Crop Productivity through Farmers Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Garrett, Karen A., Hutchinson, J. M. Shawn** (Geography), and **Scoglio, Caterina M.** (Civil Engineering), US Department of Agriculture, \$4,000, "Applying Landscape Connectivity to Model the Spread of Plant Pathogens."

**Garrett, Karen A., and Scoglio, Caterina M.** (Electrical and Computer Engineering), US Department of Agriculture, \$99,987, "Network Analysis for Forecasting the Spatial Progress of Soybean Rust Epidemics and Optimizing Sentinel Plot Strategies."

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

**Gill, Bikram S.,** Kansas Wheat Commission, \$15,606 (includes \$15,606 from USDA-ARS), "Automated Extraction of DNA in the WGGRC."

**Gill, Bikram S., Akhunov, Eduard D., and Akhunova, Alina,** Kansas Wheat Commission, "Using New Sequencing Technologies for Discovery of Agronomically Important Genes for Kansas Wheat Industry."

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

**Gill, Bikram S.,** Monsanto Company, \$187,167, "Methodology for Efficient Mapping of Alien Introgression for Adult Plant Resistance to Leaf Rust and Other Agronomic Traits in Wheat-Aegilops Tauschii Hybrids - (Bahnu Kalia, Graduate Student)."

**Gill, Bikram S.,** National Science Foundation, \$443,866, "Physical Mapping of the Wheat D Genome."

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

**Gill, Bikram S.,** US Department of Agriculture, \$131,804, "Chromosome Engineering of Stem Rust Resistance in Wheat."

**Gill, Bikram S.,** US Department of Agriculture, \$930,668, "Wheat Genetic and Genomic Resources Center at Kansas State University."

**Gill, Bikram S.,** US Department of Agriculture, \$223,749, "Wheat Genetics Resource Center at Kansas State University."

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

**Jardine, Douglas J., Duncan, Stewart R.** (Northeast Area Office), and **Roozeboom, Kraig L.** (Agronomy), Kansas Soybean Commission, \$2,805, "The Use of Seed and Foliar Fungicides at Two Planting Dates for Soybean Production in Kansas."

**Jardine, Douglas J.**, Multisponsor, \$10,500, "Soybean Foliar Fungicide and Seed Treatment Tests."

**Jardine, Douglas J.**, and **Little, Christopher R.**, North Central Soybean Research Program, \$45,000, "Developing Management Options for Frogeye Leaf Spot and Charcoal Rot in the North Central States."

**Jardine, Douglas J.**, US Department of Agriculture, \$6,633, "Continued Development of the IPM PIPE 2009: Legume PIPE Field and Laboratory Testing."

**Jardine, Douglas J., Stack, James P.**, and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$1,170, "Continued Development of the IPM PIPE Risk Management Tool Kansas Component IPM PIPE 2008."

**Kennelly, Megan**, Multisponsor, \$15,436, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

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

**Kennelly, Megan, Boyer, Cheryl R.** (Horticulture, Forestry and Recreation Resources), and **Griffin, Jason** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$8,938, "Rediscovering Conifers in Kansas."

**Kennelly, Megan, Boyer Jr, John E.** (Statistics), **Margolies, David C.** (Entomology), and **Nechols, James R.** (Entomology), US Department of Agriculture, \$31,598, "Use of Elicitors of Innate Plant Defense to Reduce Incidence of Tomato Spotted Wilt Virus in Greenhouse-grown Crops."

**Khang, Chang Hyun, Park, Sunghun** (Horticulture, Forestry and Recreation Resources), and **Valent, Barbara S.**, US Department of Agriculture, "On the Mechanism of Secretion of Rice Blast Effectors Inside Living Rice Cells."

**Leslie, John F.**, and **Schapaugh Jr, William T.** (Agronomy), Kansas Bioscience Authority, \$20,750, "Facilities License Agreement - Heartland Plant Innovations Double Haploid Lab Space in Throckmorton Hall."

**Leslie, John F.**, Multisponsor, \$113,839, "Fusarium Research."

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

**Leslie, John F.**, US Department of Agriculture, \$14,682, "Genetic Diversity and Genetic Mapping of *Gibberella zeae*."

**Leslie, John F.**, US Department of Agriculture, \$197,500, "Genetics of Rust Pathogen Avirulence and Host Resistance in Hard Winter Wheat."

**Little, Christopher R.**, and **Presley, DeAnn R.** (Agronomy), Kansas Corn Commission, \$7,833, "Vertical Tillage Effects on Corn Yield, Residue Decomposition, Disease and Pathogens, and Soil Properties."

**Little, Christopher R.**, and **Todd, Timothy C.**, Kansas Soybean Commission, \$35,115, "Understanding Soybean Seed, Seedling and Root Pathogens in Kansas."

**Little, Christopher R.**, and **Jardine, Douglas J.**, North Central Soybean Research Program, "Developing Management Options for Frogeye Leaf Spot and Charcoal Rot in the North Central States."

**Little, Christopher R.**, and **Tesso, Tesfaye** (Agronomy), The United Sorghum Checkoff Program Board, \$10,000, "Identifying Genetic and Structural Sources of Stalk Rot Resistance in Diverse Sorghum Germplasm under Dryland Production."

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

**Minton, J. Ernest**, US Department of Agriculture, \$41,360, "USDA/ARS Research Support Agreement #58-5430-9-914."

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

**Stack, James P.**, US Department of Agriculture, \$830,350, "Great Plains Diagnostic Network."

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

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

**Todd, Richard B.**, US Department of Health and Human Services, \$65,000, "The Mechanism of Action of the Transcriptional Repressor NmrA."

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

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

**Todd, Timothy C., Long Jr, James H.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$84,316, "Trait and Production Efficiency Enhancement in Soybean."

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

**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.**, Multisponsor, \$16,000, "Nematode and Soybean Research."

**Trick, Harold N., Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, \$75,331, "Enhancement of Soybean Through Genetic Engineering."

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

**Trick, Harold N., Fellers, John P., Fritz, Allan K.** (Agronomy), and **Todd, Timothy C.**, Kansas Wheat Commission, \$64,749, "Wheat Improvement through Genetic Engineering."

**Trick, Harold N.**, United Soybean Board, \$43,709, "Center for Soybean Tissue Culture and Genetic Engineering: Engineering Soybean for Effective Resistance to Soybean Cyst Nematode."

**Trick, Harold N.**, United Soybean Board, \$67,368, "Host-delivered siRNA for Nematode Resistance: Identification and Evaluation of Fertility and Fitness Genes."

**Trick, Harold N.**, United Soybean Board, \$41,200, "Towards Broad and Effective Cyst Nematode Resistance in Soybean."

**Trick, Harold N.**, US Department of Agriculture, \$20,630, "Engineering Fusarium Head Blight Resistance and Plant Defense Signaling."

**Trick, Harold N.**, US Department of Agriculture, \$22,529, "Exploring the Role of Ethylene Signaling in Fusarium Head Blight (FHB) Resistance and Susceptibility."

**Valent, Barbara S., Khang, Chang Hyun,** and **Park, Sunghun** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$399,000, "On the Mechanism of Secretion of Rice Blast Effectors Inside Living Rice Cells."

**Valent, Barbara S.**, US Department of Agriculture, \$330,497, "The Interactome of Pathogenicity Factors in the Rice Blast Fungus "Magnaporthe oryzae"."

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

**White, Frank F.**, US Department of Agriculture, \$38,118, "Infection Processes Associated with Citrus Canker and Citrus Greening."

**Whitfield, Anna E., and Smith, C. Michael** (Entomology), Kansas Wheat Commission, \$22,262, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

**Whitfield, Anna E.**, National Science Foundation, \$399,436, "CAREER: Molecular Mechanisms of Virus-Vector Interactions."

### **SOUTHEAST AGRICULTURAL RESEARCH CENTER**

**Long Jr, James H., Schapaugh Jr, William T.** (Agronomy), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$28,105, "Trait and Production Efficiency Enhancement in Soybean."

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

**Moyer, Joseph L.**, Multisponsor, \$10,200, "Southeast Kansas Crop Performance Testing Program."

**Sweeney, Daniel W., and Moyer, Joseph L.**, Multisponsor, \$3,000, "Soil Fertility and Management Investigations in Southeastern Kansas."

### **SOUTHWEST RESEARCH EXTENSION CENTER**

**Currie, Randall S.**, Multisponsor, \$29,300, "Weed Control Research in Southwest Kansas."

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

**Holman, Johnathon D., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), **Klocke, Norman L., Lamm, Freddie R.** (Northwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, P. V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J., and Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, \$111,071, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Klocke, Norman L.**, US Department of Agriculture, \$45,000, "Enhancing Irrigation Management Tools and Developing a Decision Support System for Managing Limited Irrigation Supplies for the High Plains."

**Klocke, Norman L., Golden, Bill B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$12,029, "Water Conservation- Increased Efficiency in Usage."

**Klocke, Norman L., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D., Lamm, Freddie R.** (Northwest Research Extension Center),

**Minton, J. Ernest** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, P. V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.**, and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Schlegel, Alan J.**, and **Holman, Johnathon D.**, Multisponsor, \$75,953, "Soil Fertility and Soil Management Research for Western Kansas."

**Schlegel, Alan J.**, **Gillen, Robert L.** (Agricultural Research Center-Hays), **Golden, Bill B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$162,867, "Water Conservation - Increase Efficiency in Usage."

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

## COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

### **INTERIOR ARCHITECTURE AND PRODUCT DESIGN**

**Hubbell, Neal C.**, Nuckolls Fund for Lighting Education, Inc., \$5,000, "Lighting Across the [Design] Curriculum."

### **LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING**

**Hahn, Howard D., Kingery-Page, Mary C., Skabelund, Lee R., and Winslow III, William P.**, US Department of Defense, "Green Infrastructure Demonstration Site: Forbes Field."

**Keane, Timothy D.**, and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), Johnson County Public Works, "Johnson County Stormwater Infiltration Demonstration."

**Kingery-Page, Mary C.**, Kansas Arts Commission, \$5,350 (includes \$3,750 from Bayer Stone), "Artist Residency of Dan Snow."

**Kingery-Page, Mary C., Hahn, Howard D., Skabelund, Lee R., and Winslow III, William P.**, US Department of Defense, \$11,993, "Green Infrastructure Demonstration Site: Forbes Field."

**Skabelund, Lee R., Hahn, Howard D., Kingery-Page, Mary C., and Winslow III, William P.**, US Department of Defense, "Green Infrastructure Demonstration Site: Forbes Field."

**Steward, David R., Aistrup, Joseph** (Political Science), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), **Peterson, Jeffrey M.** (Agricultural Economics), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$150,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

**Winslow III, William P., Hahn, Howard D., Kingery-Page, Mary C., and Skabelund, Lee R.**, US Department of Defense, "Green Infrastructure Demonstration Site: Forbes Field."

## COLLEGE OF ARTS AND SCIENCES

### **BIOCHEMISTRY**

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

**Chen, Jianhan**, National Science Foundation, \$111,309, "CAREER: Implicit Modeling of Non-polar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins."

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

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

**Davis, Lawrence C., and Erickson, Larry E.** (Chemical Engineering), Mango Remediation, \$1,000, "Remediation of Chlorinated Solvents in Soil and Groudwater."

**Davis, Lawrence C., Peric, Dunja** (Civil Engineering), and **Rasheed, Hayder A.** (Civil Engineering), National Science Foundation, \$9,900, "EAGER: Engineered Bio-Composites for Sustainable Concrete."

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

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

**Kanost, Michael R., Gorman, Maureen J., and Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$666,474, "Function of Laccases in Anopheles gambiae."

**Kanost, Michael R.**, US Department of Health and Human Services, \$331,238, "Proteinase Systems in Insect Hemolymph."

**Kanost, Michael R.**, US Department of Health and Human Services, \$257,674, "Proteinase Systems in Insect Hemolymph."

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

**Krishnamoorthi, Ramaswamy**, NanoScale Corporation, \$20,000, "ECHR Project."

**Muthukrishnan, Subbarat, Arakane, Yasuyuki, Beeman, Richard W.** (Entomology), **Kanost, Michael R., and Kramer, Karl J.**, National Science Foundation, \$4,500, "Integrated Functional Genomics Investigation of Chitin Metabolism and Its Role in Insect Growth and Development."

**Reeck, Gerald R.**, CRC NPB Limited (Australia), \$315,438, "Evaluation of Russian Wheat Aphid Virulence and Resistance Sustainability."

**Takemoto, Dolores J.**, US Department of Health and Human Services, \$366,430, "Protein Kinase C Gamma in the Lens."

**Tomich, John M., Chen, Jianhan, and Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$72,122, "Model Synthetic Channel Assemblies."

**Tomich, John M., Chen, Jianhan, and Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$280,479, "Model Synthetic Channel Assemblies."

**Zolkiewska, Anna**, US Department of Health and Human Services, \$444,000, "Structure-Function Analysis of Breast Cancer-Associated Mutations in ADAM12."

**Zolkiewska, Anna**, US Department of Health and Human Services, \$52,000, "Structure-Function Analysis of Breast Cancer-Associated Mutations in ADAM12."

**Zolkiewski, Michal, and Smith, Paul E.** (Chemistry), US Department of Health and Human Services, \$76,170, "Accurate Simulations of Peptide Aggregation."

## **BIOLOGY**

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

**Asano, Katsura**, US Department of Health and Human Services, \$474,351, "Studies on Start Codon Selection by Eukaryotic Ribosomes."

**Beeser, Alexander E.**, US Department of Health and Human Services, \$52,000, "Bridging Grant: Translational Potential of Pak1 Inhibitors for Type 2 Neurofibromatosis."

**Blair, John M.**, National Science Foundation, \$1,028,950, "Konza Prairie LTER VI: Grassland Dynamics and Long-Term Trajectories of Change."

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

**Blair, John M.**, US Department of Energy, \$80,773, "Interactive Effects of Altered Rainfall Timing and Elevated Temperature on Soil Communities and Processes."

**Brown, Susan J., Denell, Robin E., and Shippy, Teresa D.**, US Department of Health and Human Services, \$62,852, "Genetic Control of Segmentation."

**Brown, Susan J.**, US Department of Health and Human Services, \$175,200, "KSU Bioinformatics Core."

**Brown, Susan J.**, US Department of Health and Human Services, \$88,316, "KSU Bioinformatics Core [Supplement]."

**Chapes, Stephen K.**, American Heart Association, Midwest Affiliate, \$71,500, "Understanding Adipocyte-Macrophage Interactions."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$6,500, "ARRA Small Equipment and Supplies."

**Chapes, Stephen K.**, and **Von Ohlen, Tonia L.**, US Department of Health and Human Services, \$218,160, "Definition of Host Genes Required for Intracellular Pathogen Growth."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$32,500, "K-INBRE ARRA Scholars (Ganser, Kurtz, Loeb, Stephens, Williams)."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$58,400, "KSU Undergraduate Support Core."

**Chapes, Stephen K.**, US Department of Health and Human Services, \$24,700, "Summer Scholars (Woolsey, Littlechild, Evans, Miller, Ballard, Doyle)."

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

**Conrad, Gary W.**, US Department of Health and Human Services, \$366,300, "Fibroblast Differentiation During Eye Development."

**Craine, Joseph M.**, and **McLauchlan, Kendra K.**, National Science Foundation, \$7,500, "Testing the Consequences of the Carbon-Quality Temperature Hypothesis for Soil Organic Matter Decomposition."

**Cully, Jr., Jack F.**, US Department of Agriculture, \$15,000, "A Multiscale Investigation of the Movement Patterns of Black-tailed Prairie Dogs (Rachel Pigg)."

**Cully, Jr., Jack F.**, US Department of the Interior, \$82,400, "Status and Management of Black-tailed Prairie Dogs on Small Cultural Parks of the Western Great Plains."

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

**Dodds, Walter K.**, Missouri Department of Conservation, \$60,485, "Ecological Integrity of Prairie Streams as Influenced by Patchburn Grazing and Riparian Protection."

**Dodds, Walter K.**, and **Andresen, Daniel A.** (Computing and Information Sciences), National Science Foundation, \$809,393, "Collaborative Research: EPSCoR RII Track 2 Oklahoma and Kansas: A cyberCommons for Ecological Forecasting."

**Dodds, Walter K.**, **Blair, John M.**, **Harrington Jr, John A.** (Geography), and **Steward, David R.** (Civil Engineering), National Science Foundation, \$104,100, "Understanding and Forecasting

Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."

**Ferguson, Carolyn J., Bolton, Timothy A.** (Physics), **Kambhampati, Srinivas** (Entomology), **Rebello, Nobel S.** (Physics), and **Totten, Iris M.** (Geology), National Science Foundation, \$561,940, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

**Fleming, Sherry D.**, US Department of Health and Human Services, \$434,677, "Natural Antibodies and Tissue Injury."

**Gido, Keith B.**, US Department of the Interior, \$23,576, "Consequences of Stream Fragmentation and Climate Change for Rare Great Plains Fishes."

**Gido, Keith B.**, and **Daniels, Melinda** (Geology), US Department of the Interior, \$95,931, "Seasonal Fish Assemblages and Habitat Effects Near Bowersock Dam: Implications for Fish Passage."

**Gido, Keith B.**, US Department of the Interior, \$35,000, "Trophic Studies on the Gila River."

**Hancock, Lynn E.**, US Department of Health and Human Services, \$296,000, "The Regulation of Autolysis in *Enterococcus Faecalis*."

**Herman, Michael A.**, National Science Foundation, \$40,000, "EAGER: Transcriptomics of Native Grassland Soil Nematodes to Develop Genomic Approaches to Study Community Responses in Non-Model Taxa."

**Herman, Michael A., Johnson, Loretta C.**, and **Morgan, Theodore J.**, National Science Foundation, "Symposium: The Ecological Genomics Symposium, Kansas State University, November 13-15, 2009 at the Downtown Marriott, Kansas City, MO."

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

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

**Johnson, Loretta C., Herman, Michael A.**, and **Morgan, Theodore J.**, National Science Foundation, "Symposium: The Ecological Genomics Symposium, Kansas State University, November 13-15, 2009 at the Downtown Marriott, Kansas City, MO."

**Johnson, Loretta C., Herman, Michael A., Joern, Anthony**, and **Sandercock, Brett K.**, US Department of Education, \$261,312, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

**Jumpponen, Ari M., Garrett, Karen A.** (Plant Pathology), and **Kennelly, Megan** (Plant Pathology), The Ceres Trust, \$15,121, "The Response of Soil Microbial Communities to Organic and Conventional Fertilization."

**Jumpponen, Ari M., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Prasad, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$9,967, "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, \$60,572, "Structure and Target Protease of SRPN6, Inhibitor of Malaria Parasite Infection."

**Morgan, Theodore J., Herman, Michael A., and Johnson, Loretta C.**, National Science Foundation, \$23,470, "Symposium: The Ecological Genomics Symposium, Kansas State University, November 13-15, 2009 at the Downtown Marriott, Kansas City, MO."

**Nippert, Jesse B.**, National Science Foundation, \$11,000, "Global Environmental Change and Local Ecosystems: A Kansas MSP-Start Project for P-20 Students."

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

**Paukert, Craig, and Whittier, Joanna B.**, US Department of the Interior, \$16,408, "Evaluation of the Success of Humpback Chub Translocation in Shinumo Creek."

**Paukert, Craig, and Daniels, Melinda** (Geology), US Department of the Interior, \$97,341, "Sand Dredging Effects on Fishes and Fish Habitat in the Kansas River."

**Rintoul, David A., and Roelofs, Jeroen**, US Department of Health and Human Services, \$26,000, "Start-Up Package: Jeroen Roelofs."

**Roelofs, Jeroen**, US Department of Health and Human Services, \$214,600, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle."

**Roelofs, Jeroen, and Asano, Katsura**, US Department of Health and Human Services, \$9,867, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle (Mentor)."

**Roelofs, Jeroen, and Rintoul, David A.**, US Department of Health and Human Services, "Start-Up Package: Jeroen Roelofs."

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

**Sandercock, Brett K., and Wisely, Samantha**, US Department of Energy, \$22,065, "Effects of Wind Power Development on Greater Prairie Chickens."

**Sandercock, Brett K., and Wisely, Samantha**, US Department of Energy, \$299,998, "Environmental Impacts of Wind Power Development on Population Biology of Greater Prairie Chickens."

**Sandercock, Brett K., and Wisely, Samantha**, US Department of the Interior, "Conservation Status of the Buff-Breasted Sandpiper: A Conservation Genetics Approach."

**Sandercock, Brett K., and Wisely, Samantha**, US Department of the Interior, "Environmental Impacts of Wind Power Development on Population Biology of Greater Prairie-Chickens."

**Sandercock, Brett K., and Wisely, Samantha**, US Department of the Interior, "Modeling the Response of Prairie Chicken Distribution in Land Use and Climate Change using Survey, Genetic, Land Cover and Climate Data."

**Schrack, Kathrin**, US Department of Agriculture, \$248,314, "The Role of Sterol Biosynthesis and Signalling in Embryogenesis of Flowering Plants."

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

**Spooner, Brian S., and Rintoul, David A.**, Kansas State University Foundation, \$20,000, "Biology Research Career Development Core."

**Spooner, Brian S., and Rintoul, David A.**, Kansas State University Foundation, \$140,457, "Cancer Center Core."

**Spooner, Brian S.**, US Department of Health and Human Services, \$40,000, "Laboratory Animal Care Core Facilities Enhancement."

**Takemoto, Larry J.**, US Department of Health and Human Services, \$247,563, "Lens Membrane in Relation to Human Cataractogenesis."

**Ungerer, Mark**, National Science Foundation, \$194,057, "Hybrid Speciation, Transposable Elements, and Genome Evolution in Wild Sunflowers."

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

**Welti, Ruth, and Gadbury, Gary L.** (Statistics), National Science Foundation, \$361,675, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

**Welti, Ruth**, National Science Foundation, \$12,000, "Metabolomic Profiling of Lipids and Their Compositional Dynamics in Plant Stress Responses."

**Welti, Ruth**, National Science Foundation, \$123,813, "Metabolomics: A Functional Genomics Tool for Deciphering Functions of Arabidopsis Genes in the Context of Metabolic and Regulatory Networks."

**Welti, Ruth**, US Department of Health and Human Services, \$40,000, "Sample Preparation Improvements at the Kansas Lipidomics Research Center(KLRC)."

**Whittier, Joanna B., and Paukert, Craig**, US Department of the Interior, "Evaluation of the Success of Humpback Chub Translocation in Shinumo Creek."

**Wisely, Samantha**, US Department of Agriculture, \$15,000, "Co-evolution of Rabies and Striped Skunks - Graduate Student Fellowship (Heather Barton)."

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

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

**Wisely, Samantha**, and **Sandercock, Brett K.**, US Department of the Interior, \$89,923, "Conservation Status of the Buff-Breasted Sandpiper: A Conservation Genetics Approach."

**Wisely, Samantha**, and **Sandercock, Brett K.**, US Department of the Interior, \$145,150, "Environmental Impacts of Wind Power Development on Population Biology of Greater Prairie-Chickens."

**Wisely, Samantha**, and **Sandercock, Brett K.**, US Department of the Interior, \$47,349, "Modeling the Response of Prairie Chicken Distribution in Land Use and Climate Change using Survey, Genetic, Land Cover and Climate Data."

**Wong, Peter P.**, Safe Water, \$18,861, "Safewater's Prototype IV and Resin D5194 Testing."

## **CHEMISTRY**

**Aikens, Christine M.**, National Science Foundation, \$599,500, "CAREER: Theoretical Development of Bio-Inspired Water Splitting Photocatalysts."

**Aikens, Christine M.**, US Department of Defense, \$149,079, "Structure and Optical Properties of Noble Metal Nanoparticles."

**Bossmann, Stefan, Chikan, Viktor**, and **Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, \$50,250, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

**Bossmann, Stefan**, and **Troyer, Deryl L.** (Anatomy and Physiology), National Science Foundation, \$304,826, "Renilla Transfected Stem Cells as Light Source for In-Situ Photodynamic Therapy of Cancer."

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

**Culbertson, Christopher T.**, and **Lookhart, George L.** (Grain Science and Industry), Kansas Wheat Commission, \$75,000, "Development and Use of 'Lab on a Chip' Technology to Provide Varietal Identification for Quality Production in Less than 90 Seconds."

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

**Hollingsworth, Mark D.**, National Science Foundation, \$78,000, "Synthesis and Mechanistic Studies of New Series of Ferroelastic and Ferroelectric Crystals."

**Hua, Duy H.**, Alzheimer's Drug Discovery Foundation & Institute for the Study o, \$20,000, "Tricyclic Pyrone Compounds and Axonal Trafficking Dysfunction in AD."

**Hua, Duy H.**, Bunge Oils, Inc., \$88,541, "New Materials from Canola and Soybean Oils."

**Hua, Duy H.**, and **Chang, Kyeong-Ok** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$154,197, "Development of Novel Therapeutic Agents for Norovirus Infections."

**Hua, Duy H.**, **Gorman, Maureen J.** (Biochemistry), and **Kanost, Michael R.** (Biochemistry), US Department of Health and Human Services, \$99,588, "Function of Laccases in *Anopheles gambiae*."

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

**Jankowiak, Ryszard J.**, Kansas Technology Enterprise Corporation, \$22,493, "Excitation Energy Transfer in Natural Photosynthetic Complexes and Chlorophyll Trefoils: Hole Burning and Single Complex/Trefoil Spectroscopic Studies."

**Jankowiak, Ryszard J.**, National Science Foundation, \$380,000, "Comparative Studies of Electronic Structure and Dynamic Process in Model Photosynthetic Complexes using Spectral Hole Burning and Single Complex Spectroscopies."

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

**Klabunde, Kenneth J.**, **Berry, Vikas** (Chemical Engineering), **Edgar, James H.** (Chemical Engineering), **Li, Jun**, and **Sorensen, Christopher M.** (Physics), National Science Foundation, "MRI: Acquisition of a Field Emission Scanning Microscope for Kansas State University."

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

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

**Li, Jun**, **Berry, Vikas** (Chemical Engineering), **Edgar, James H.** (Chemical Engineering), **Klabunde, Kenneth J.**, and **Sorensen, Christopher M.** (Physics), National Science Foundation, \$155,678, "MRI: Acquisition of a Field Emission Scanning Microscope for Kansas State University."

**Li, Jun**, National Science Foundation, \$210,285, "Nanotechnology for Renewable Energy."

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

**Smith, Paul E.**, and **Zolkiewski, Michal** (Biochemistry), US Department of Health and Human Services, \$114,256, "Accurate Simulations of Peptide Aggregation."

### **COMMUNICATION STUDIES, THEATRE, AND DANCE**

**Bailey, Sally D.**, Young In University, \$6,198, "Young In University Drama Therapy Course."

**Steffensmeier, Timothy R.**, Interactivity Foundation, \$53,176, "Contract for Sanctuary Project."

### **ECONOMICS**

**Babcock, Michael W.**, **Dissanayake, Sunanda** (Civil Engineering), **Hossain, Mustaque A.** (Civil Engineering), **Landman, E. Dean** (Civil Engineering), **Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R.** (Civil Engineering), **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.** (Civil Engineering), US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

### **ENGLISH**

**Northway, Kara**, International Writing Centers Association, \$740, "Investigating Student Assessment of the Effectiveness of Writing Center Consultations."

### **GEOGRAPHY**

**Daniels, Robert**, and **Hutchinson, J. M. Shawn**, US Department of Agriculture, "Object-based Classification of Riparian Vegetation in Delaware River Basin."

**Daniels, Robert**, and **Hutchinson, J. M. Shawn**, US Environmental Protection Agency, "GISSAL WRAPS Memorandum of Agreement."

**Goodin, Douglas G.**, National Science Foundation, \$4,194, "Doctoral Dissertation Research: Burned Area Mapping in Tallgrass Prairie using In Situ Spectrometry, and TM and MODIS Imagery (Rhett Mohler)."

**Harrington Jr, John A.**, National Geographic Education Foundation, \$9,878, "2009/2010 Alliance Program Grant."

**Harrington Jr, John A.**, National Geographic Education Foundation, \$23,000, "2009/2010 Kansas Geographic Alliance."

**Harrington Jr, John A.**, **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), and **Rice, Charles W.** (Agronomy), National Science Foundation, "Purchase of a Gas Chromatograph Upgrade."

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

**Harrington Jr, John A., 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."

**Harrington Jr, John A., Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Data Collection to Support NBAF Risk Assessment."

**Harrington Jr, John A., Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), **Vanier, Martha A.** (National Agricultural Biosecurity Center), and **Zurek, Ludek** (Entomology), US Department of Homeland Security, "Data Collection to Support NBAF Risk Assessment."

**Hutchinson, J. M. Shawn, Garrett, Karen A.** (Plant Pathology), and **Scoglio, Caterina M.** (Civil Engineering), US Department of Agriculture, \$2,000, "Applying Landscape Connectivity to Model the Spread of Plant Pathogens."

**Hutchinson, J. M. Shawn, and Daniels, Robert**, US Department of Agriculture, \$8,000, "Object-based Classification of Riparian Vegetation in Delaware River Basin."

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

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

**Hutchinson, J. M. Shawn, and Daniels, Robert**, US Environmental Protection Agency, \$26,340, "GISSAL WRAPS Memorandum of Agreement."

**Marston, Richard A.**, US Department of the Interior, \$5,000, "Cross-Valley Profiles and Mass Movement Hazards in Deglaciated Canyons, Grand Teton National Park."

**McLauchlan, Kendra K.**, National Science Foundation, \$59,863, "CAREER: Ecosystem Change in Forests and Grasslands from Decades to Millennia: A Retrospective Approach."

## **GEOLOGY**

**Brueseke, Matthew E.**, National Science Foundation, \$162,082, "Collaborative Research: Magmatism and Mineralization in the Owyhee Mountains, ID: A Case Study of Mid-Miocene Au-Ag Ores and the Emergence of the Yellowstone Hotspot."

**Daniels, Melinda**, National Science Foundation, \$27,261, "Fluvial Dynamics of Large River Secondary Channels: Hydraulic Habitat, Channel Morphology, and Potential for Restoration."

**Daniels, Melinda, and Paukert, Craig** (Biology), US Department of the Interior, "Sand Dredging Effects on Fishes and Fish Habitat in the Kansas River."

**Daniels, Melinda**, and **Gido, Keith B.** (Biology), US Department of the Interior, "Seasonal Fish Assemblages and Habitat Effects Near Bowersock Dam: Implications for Fish Passage."

**Datta, Saugata**, and **Raef, Abdelmoneam**, US Department of Energy, \$121,126, "Modeling CO2 Sequestration in Saline Aquifer and Depleted Oil Reservoir to Evaluate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas."

**Datta, Saugata**, US Environmental Protection Agency, \$4,920, "Johns Hopkins Particulate Matter Research Center."

**Raef, Abdelmoneam**, and **Datta, Saugata**, US Department of Energy, "Modeling CO2 Sequestration in Saline Aquifer and Depleted Oil Reservoir to Evaluate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas."

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

## **HISTORY**

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

**Stone, David R.**, Kansas State University Foundation, \$15,000, "Institute for Military History and 20th Century Studies."

**Zschoche, Sue**, and **Lynn-Sherow, Bonnie**, Kansas State University Foundation, \$50,000, "Chapman Center for Personnel."

## **KINESIOLOGY**

**Barstow, Thomas J.**, and **Warren, Steven** (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$219,853, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

**Kaczynski, Andrew**, City of Kansas City, MO, \$3,500, "Kansas City Parks and Physical Activity Research Study."

**Kaczynski, Andrew**, Robert Wood Johnson Foundation, \$49,989, "Developing and Testing a User-Friendly Tool for Auditing Park Characteristics Associated with Youth Physical Activity."

**Kaczynski, Andrew**, United Methodist Health Ministry Fund, \$6,989, "Healthy Young Kansans through Supportive Communities."

**Musch, Timothy I.**, and **Poole, David C.** (Anatomy and Physiology), American Heart Association, Midwest Affiliate, "Role of Nitric Oxide Synthase Isoforms in Microcirculatory Dysfunction of Chronic Heart Failure."

**Poole, David C.**, American College of Sports Medicine, \$1,400, "Exercise Training and Muscle Microvascular Oxygenation (Doctoral Student Research Grant for Daniel Hirai)."

**Poole, David C.**, and **Musch, Timothy I.** (Anatomy and Physiology), American Heart Association, Midwest Affiliate, \$35,750, "Role of Nitric Oxide Synthase Isoforms in Microcirculatory Dysfunction of Chronic Heart Failure."

## **MATHEMATICS**

**Bennett, Andrew G.**, **Rebello, Nobel S.** (Physics), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$84,168, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

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

**Castano-Bernard, Ricardo**, **Soibelman, Yan S.**, and **Zharkov, Ilia**, National Science Foundation, \$577,100, "FRG: Collaborative Research: Mirror Symmetry & Tropical Geometry."

**Korten, Marianne**, and **Moore, Charles N.**, National Science Foundation, "Collaborative Research: Prairie Analysis Seminar 2009-2011."

**Korten, Marianne**, and **Yetter, David**, National Science Foundation, \$360,000, "REU Site: Summer Undergraduate Mathematics Research (SUMaR) at K-State."

**Moore, Charles N.**, and **Korten, Marianne**, National Science Foundation, \$32,664, "Collaborative Research: Prairie Analysis Seminar 2009-2011."

**Soibelman, Yan S.**, **Castano-Bernard, Ricardo**, and **Zharkov, Ilia**, National Science Foundation, "FRG: Collaborative Research: Mirror Symmetry & Tropical Geometry."

**Spencer, Craig**, National Security Agency, \$14,602, "Circle Method Approaches to Arithmetic Geometry, Diophantine Inequalities and Additive Combinatorics."

**Turchin, Victor**, National Science Foundation, \$115,247, "FRG: Collaborative Research: The Calculus of Functors and the Theory of Operads: Interactions and Applications."

**Yetter, David**, and **Korten, Marianne**, National Science Foundation, "REU Site: Summer Undergraduate Mathematics Research (SUMaR) at K-State."

**Zharkov, Ilia**, **Castano-Bernard, Ricardo**, and **Soibelman, Yan S.**, National Science Foundation, "FRG: Collaborative Research: Mirror Symmetry & Tropical Geometry."

## **MUSIC**

**Yu Oppenheim, Julie**, Master Teacher, Inc., \$14,050, "Summer Choral Institute."

## **PHYSICS**

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

**Ben-Itzhak, Itzhak**, US Department of Energy, \$5,000, "Attosecond Physics 2009."

**Ben-Itzhak, Itzhak, Carnes, Kevin D., Chang, Zenghu, Cocke, Charles L., DePaola, Brett D., Fehrenbach, Charles C., and Kumarappan, Vinod**, US Department of Energy, \$1,274,200, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

**Bolton, Timothy A.**, Fermi National Accelerator Laboratory, \$1,559, "Interface Board Repair."

**Bolton, Timothy A.**, Fermi National Accelerator Laboratory, \$55,385, "Salary Support for Dimitry Bandurin."

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

**Bolton, Timothy A.**, and **Ivanov, Andrew G.**, National Science Foundation, \$53,280, "MRI-R2: Development of a Pixel Detector for the Upgraded CMS Experiment."

**Bolton, Timothy A.**, National Science Foundation, \$82,500, "PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector."

**Bolton, Timothy A., Sidwell, Ronald A., Stanton, Noel R.**, and **Von Toerne, Eckhard**, National Science Foundation, \$30,000, "Quarknet."

**Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Maravin, Yurii, Ratra, Bharat**, and **Stanton, Noel R.**, US Department of Energy, \$772,300, "Heavy Quark and Neutrino Physics."

**Bolton, Timothy A.**, and **Onoprienko, Dmitry V.**, US Department of Energy, \$13,217, "SiD Detector Concept."

**Carnes, Kevin D., Ben-Itzhak, Itzhak, Chang, Zenghu, Cocke, Charles L., DePaola, Brett D., Fehrenbach, Charles C., and Kumarappan, Vinod**, US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

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

**Chang, Zenghu, Ben-Itzhak, Itzhak, Carnes, Kevin D., Cocke, Charles L., DePaola, Brett D., Fehrenbach, Charles C., and Kumarappan, Vinod**, US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

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

**Cocke, Charles L., Ben-Itzhak, Itzhak, Carnes, Kevin D., Chang, Zenghu, DePaola, Brett D., Fehrenbach, Charles C., and Kumarappan, Vinod**, US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

**Corwin, Kristan L., and Weaver, Oliver L.**, National Science Foundation, \$113,000, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

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

**Corwin, Kristan L., and Washburn, Brian R.**, US Department of Defense, \$181,729, "Gas-Filled Hollow Optical Fiber-based Frequency References for Portable Frequency Combs in the Near Infrared."

**DePaola, Brett D., Ben-Itzhak, Itzhak, Carnes, Kevin D., Chang, Zenghu, Cocke, Charles L., Fehrenbach, Charles C., and Kumarappan, Vinod**, US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

**Esry, Brett D.**, National Science Foundation, \$282,261, "A Theoretical Investigation of Few-Body Systems."

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

**Esry, Brett D.**, National Science Foundation, \$5,000, "Graduate Student Support for Attosecond - 2009."

**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, \$165,936, "Ultracold Polar Molecules: New Phases of Matter for Quantum Information and Quantum Control."

**Fehrenbach, Charles C., Ben-Itzhak, Itzhak, Carnes, Kevin D., Chang, Zenghu, Cocke, Charles L., DePaola, Brett D., and Kumarappan, Vinod**, US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

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

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

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$17,573, "Kansas Defense 2010."

**Kumarappan, Vinod, Ben-Itzhak, Itzhak, Carnes, Kevin D., Chang, Zenghu, Cocke, Charles L., DePaola, Brett D., and Fehrenbach, Charles C.,** US Department of Energy, "SISGR: PULSAR: A High-repetition-rate, High-power, CE phase-locked Laser for the J.R. Macdonald Laboratory."

**Lin, Chii-Dong,** US Department of Energy, \$165,000, "Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons."

**Maravin, Yurii,** Fermi National Accelerator Laboratory, \$5,000, "Coordination of the US CMS Research Effort at the LHC Physics Center in the Area of Dileptons."

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

**Onoprienko, Dmitry V., and Bolton, Timothy A.,** US Department of Energy, "SiD Detector Concept."

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

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

**Rebello, Nobel S., Bennett, Andrew G.** (Mathematics), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$185,170, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

**Rebello, Nobel S.,** US Department of Education, \$76,357, "Scaffolding Students' Use of Multiple Representations for Science Learning."

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

**Sorensen, Christopher M., Berry, Vikas** (Chemical Engineering), **Edgar, James H.** (Chemical Engineering), **Klabunde, Kenneth J.** (Chemistry), and **Li, Jun** (Chemistry), National Science Foundation, \$155,678, "MRI: Acquisition of a Field Emission Scanning Microscope for Kansas State University."

**Sorensen, Christopher M., Beck, B. Terry** (Mechanical and Nuclear Engineering), and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), PAX Streamline, Inc., \$24,731, "Nanosecond Photography for Bubble Visualization and Measurement."

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

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

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

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

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

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

**Zollman, Dean A.**, National Science Foundation, \$75,347, "Undergraduate Science Course Reform Serving Pre-Service Teachers: Evaluation of a Faculty Professional Development Model."

### **POLITICAL SCIENCE**

**Aistrup, Joseph, Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), **Peterson, Jeffrey M.** (Agricultural Economics), **Steward, David R.** (Civil Engineering), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$225,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

**Kisangani, Emizet**, US Department of Education, \$89,246, "Undergraduate African Studies Minor."

### **PSYCHOLOGY**

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

**Kirkpatrick, Kimberly**, US Department of Health and Human Services, \$244,930, "Timing, Reward Processing and Choice."

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

**Monaco, Gregory E., Gruenbacher, Don M.** (Electrical and Computer Engineering), and **Scoglio, Caterina M.** (Electrical and Computer Engineering), National Science Foundation, \$10,653, "GpENI: Great Plains Environment for Network Innovation."

**Palmatier, Matthew I.**, US Department of Health and Human Services, \$182,659, "Nicotine Self-Administration: Tobacco Pharmacotherapies."

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

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

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

**Britton, Dana M.**, Sociologists for Women in Society, \$115,000, "Gender and Society Editorship."

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

**Kulcsar, Laszlo, Bergtold, Jason S.** (Agricultural Economics), **Peterson, Jeffrey M.** (Agricultural Economics), and **Selfa, Theresa L.**, National Science Foundation, \$90,491, "Farmers' Decisions to Grow Crops for Fuel."

**Kulcsar, Laszlo, Aistrup, Joseph** (Political Science), **Peterson, Jeffrey M.** (Agricultural Economics), **Steward, David R.** (Civil Engineering), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$225,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

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

**Logan, Brad R.**, US Department of the Interior, \$26,686, "National Register of Historic Places Evaluation of Selected Sites at Lovewell Reservoir, Jewell County, Kansas."

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

**Ritterbush, Lauren W.**, SMH Consultants, \$1,236, "Fairman Lake Archaeological Survey."

**Selfa, Theresa L., Bergtold, Jason S.** (Agricultural Economics), **Kulcsar, Laszlo**, and **Peterson, Jeffrey M.** (Agricultural Economics), National Science Foundation, "Farmers' Decisions to Grow Crops for Fuel."

**Selfa, Theresa L., Dalton, Timothy J.** (Agricultural Economics), **Dhuyvetter, Kevin C.** (Agricultural Economics), **Garrett, Karen A.** (Plant Pathology), **Jumpponen, Ari M.** (Biology), **Lilja, Nina** (Dean of Agriculture and Director of AES), **Prasad, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), US Agency for International Development, \$9,967, "Improving Soil Quality and Crop Productivity through Farmers Tested and Recommended Conservation Agricultural Practices in Cropping Systems of West Africa."

**Selfa, Theresa L., Goe, W. Richard, Kulcsar, Laszlo, and Middendorf, Gerad D.**, US Department of Energy, \$224,514, "Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities."

**Williams, L. Susan**, National Science Foundation, \$8,478, "Doctoral Dissertation Research: Pushed to the Margins: Methamphetamine, Crime, and Inequality (Travis Linnemann)."

**Wood, Spencer D.**, and **Kulcsar, Laszlo**, Health Care Foundation of Greater Kansas City, \$58,866, "Juniper Gardens Farm Business Development Project."

### **STATISTICS**

**Boyer Jr, John E.**, Eli Lilly & Company, \$1,000, "Kansas State University Conference on Applied Statistics in Agriculture."

**Boyer Jr, John E.**, **Kennelly, Megan** (Plant Pathology), **Margolies, David C.** (Entomology), and **Nechols, James R.** (Entomology), US Department of Agriculture, \$31,598, "Use of Elicitors of Innate Plant Defense to Reduce Incidence of Tomato Spotted Wilt Virus in Greenhouse-grown Crops."

**Gadbury, Gary L.**, and **Welti, Ruth** (Biology), National Science Foundation, \$19,036, "Collaborative Research: Metabolomic Profiling and Functions of Oxidized Membrane Lipids in Plant Stress Response."

## COLLEGE OF BUSINESS ADMINISTRATION

### **ACCOUNTING**

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

### **MANAGEMENT**

**Cai, Gangshu**, National Science Foundation, \$224,999, "Collaborative Research on Studies of Multichannel Opaque Service Enterprise."

**Katz, Jeffrey P.**, and **Vruwink, David R.** (Accounting), Multisponsor, \$3,750, "MBA Practicum."

### **MARKETING**

**Janda, Swinder**, Kansas State University Foundation, \$15,463, "CBA Faculty International Incentive Program."

## COLLEGE OF EDUCATION

### DEAN OF EDUCATION

**Allen, David S., and Bennett, Andrew G.** (Mathematics), US Department of Education, \$157,804 (includes \$7,804 from USD #475), "PROJECT RENEW: Leadership for Renewal and Excellence in Mathematics."

**Burenheide, Bradley, and Vontz, Thomas** (Elementary Education), US Library of Congress, \$14,933, "Project History Lab."

**Burenheide, Bradley, and Vontz, Thomas** (Elementary Education), US Library of Congress, \$4,771, "Project History Methods."

**Dalton, Andrew**, US Department of Education, \$737,869, "Project KANCO."

**Dunn, Cindi, and Thurston, Linda P.**, National Science Foundation, \$20,676, "The Queens Borough Bridge: An NSF-Funded Consortium between a Two-Year College, Four-Year College, and National Laboratory."

**Goodson, F. Todd**, US Department of Education, \$106,450 (includes \$9,450 from participant support), "Flint Hills Writing Project."

**Havlicek, Barbara J.**, Kansas Foundation for Agriculture in the Classroom, \$131,050, "Kansas Foundation for Agriculture in the Classroom."

**Havlicek, Barbara J.**, Multisponsor, \$3,126, "Council for Public School Improvement."

**Havlicek, Barbara J.**, Multisponsor, \$67,660, "Educational Computer Assistance."

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

**Herrera, Socorro G.**, US Department of Education, \$949,761, "Project Destiny."

**Herrera, Socorro G.**, US Department of Education, \$276,361, "Project MERIT."

**Herrera, Socorro G.**, US Department of Education, \$298,798, "Project PEER."

**Herrera, Socorro G.**, US Department of Education, \$299,687, "Project Pulse."

**Herrera, Socorro G.**, USD 497, Lawrence, \$13,000, "Hillcrest Elementary - Reading First Project 2009."

**Middendorf, B. Jan**, DeBruyn Institute for Teaching Excellence, \$7,400, "Master Teacher Survey Development."

**Middendorf, B. Jan**, Kansas Board of Regents, \$143,000, "Kan-ed Evaluation - Phase VII."

**Middendorf, B. Jan**, National Science Foundation, \$21,312, "Cultivating The STEM Program."

**Middendorf, B. Jan**, US Department of Defense, \$195,000, "The Honor Challenge: to Honor the Brave, Challenge Myself (THC)."

**Murry, Kevin G.**, US Department of Education, \$594,068, "Project Advocate."

**Murry, Kevin G.**, US Department of Education, \$563,832, "Project SOAR."

**Murry, Kevin G.**, US Department of Education, \$543,505, "Project TEACH."

**Rankin, Charles I.**, US Department of Education, \$704,151, "Midwest Equity Assistance Center."

**Shuman, Cindy**, National Science Foundation, \$7,560, "Scale Up of Math and Science K-12."

**Shuman, Cindy**, and **Thurston, Linda P.**, US Department of Education, "Evaluation of !LISTO!."

**Spears, Jacqueline D.**, Kauffman Foundation, \$31,764, "Kansas City Area Education Research Consortium."

**Spears, Jacqueline D.**, **Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), **Wallentine, Virgil E.** (Computing and Information Sciences), and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$117,984 (includes \$11,790 from industry match), "Infusing System Development and Sensor Technology in Education - Letter of Intent."

**Teagarden, James M.**, US Department of Education, \$5,500, "IHE Parent Involvement Curriculum Enhancement Program."

**Thurston, Linda P.**, National Science Foundation, \$162,171, "National Science Foundation - Intergovernmental Personnel Act."

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

**Thurston, Linda P.**, and **Spears, Jacqueline D.** (Secondary Education), US Department of Education, \$81,566, "Ethiopian Area Studies: Using the Network Built by the Donkey Mobile Library."

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

**Vontz, Thomas**, US Department of Education, \$13,500, "Civitas Eurasia Kansas Partnership - Year 2."

**Vontz, Thomas**, US Department of Education, \$53,020, "Kansas State University / Kazakhstan Civic Education."

**Vontz, Thomas**, US Department of Education, \$47,316, "Kansas We the People Summer Institute."

## **EDUCATIONAL LEADERSHIP**

**Gould, Carol A.**, Corporation for National and Community Service, \$110,947, "Kansas Campus Compact."

## **ELEMENTARY EDUCATION**

**Vontz, Thomas**, US Department of Education, "Civitas Eurasia Kansas Partnership - Year 2."

**Vontz, Thomas**, US Department of Education, "Kansas State University / Kazakhstan Civic Education."

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

**Vontz, Thomas**, US Department of Education, \$32,370, "We the People: Kansas."

**Vontz, Thomas**, and **Burenheide, Bradley** (Secondary Education), US Library of Congress, "Project History Lab."

**Vontz, Thomas**, and **Burenheide, Bradley** (Secondary Education), US Library of Congress, "Project History Methods."

## **SECONDARY EDUCATION**

**Burenheide, Bradley**, and **Vontz, Thomas** (Elementary Education), US Library of Congress, "Project History Lab."

**Burenheide, Bradley**, and **Vontz, Thomas** (Elementary Education), US Library of Congress, "Project History Methods."

**Douglas-Mankin, Kimberly D.**, **Bitsie-Baldwin, LaVerne** (Dean of Engineering), and **Starrett, Shelli K.** (Electrical and Computer Engineering), National Science Foundation, \$30,984, "K-State STEP: Increasing the Number and Diversity of Students Graduating in STEM Fields at Kansas State University."

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

**Spears, Jacqueline D.**, Kauffman Foundation, "Kansas City Area Education Research Consortium."

**Spears, Jacqueline D.**, and **Thurston, Linda P.** (Dean of Education), US Department of Education, "Ethiopia Area Studies: Using the Network Built by the Donkey Mobile Library."

## **SPECIAL EDUCATION, COUNSELING, AND STUDENT AFFAIRS**

**Teagarden, James M.**, US Department of Education, "IHE Parent Involvement Curriculum Enhancement Program."

## COLLEGE OF ENGINEERING

### **ADVANCED MANUFACTURING INSTITUTE**

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

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

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$31,510, "EDA "Early-Stage Technology Development Assistance Center: Phase II"."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$468,566, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

**Kramer, Bradley A., Case, Scott A., Jones, Taylor S., and Tucker, Jeffrey W.**, Multisponsor, \$1,142,663, "Advanced Manufacturing Institute - Manufacturing Learning Center."

**Kramer, Bradley A., and Tucker, Jeffrey W.**, US Department of Commerce, \$190,000, "Early-Stage Technology Development Assistance Center: Bridging the Gap between New Technologies and Commercialization."

**Tucker, Jeffrey W.**, Kansas Department of Transportation, \$6,000 (includes \$6,000 from AAA Allied Group, Inc.), "KHP Safety Belt Convincers S10-0043."

**Tucker, Jeffrey W.**, Kansas Environmental Management Associates, LLC, \$33,000, "Phosphorus Reduction Technology Extension Work P09-0068."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, Kansas Technology Enterprise Corporation, "EDA "Early-Stage Technology Development Assistance Center: Phase II"."

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

**Tucker, Jeffrey W.**, KEMA Inc., \$12,000, "Change/Revision of Drawings for New Generation of the Phosphorous Reduction System P10-0004."

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

**Tucker, Jeffrey W.**, US Army, \$17,407, "Seat Belt Convincer S10-0013."

**Tucker, Jeffrey W.**, US Department of Agriculture, \$205,380, "Integrated Next Generation Phosphorus Reduction Development P10-0045."

**Tucker, Jeffrey W., and Kramer, Bradley A.**, US Department of Commerce, "Early-Stage Technology Development Assistance Center: Bridging the Gap between New Technologies and Commercialization."

**Tucker, Jeffrey W.**, US Department of Defense, \$17,450, "Seat Belt Convincer - S10-0014."

**Tucker, Jeffrey W.**, US Department of Defense, \$17,407, "Seat Belt Convincer - S10-0018."

## **BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**Douglas-Mankin, Kyle R., Peterson, Jeffrey M.** (Agricultural Economics), **Pfromm, Peter H.** (Chemical Engineering), and **Rezac, Mary E.** (Chemical Engineering), National Science Foundation, \$276,995 (includes \$30,575 from Kansas Bioscience Authority), "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

**Douglas-Mankin, Kyle R., Devlin, Daniel L., Graham, Steven M., Hargrove, William L.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Nejadhashemi, Amirpouyan**, US Department of the Interior, "Kansas Water Resources Research Institute."

**Harner III, Joseph P., Graham, Steven M., and Maghirang, Ronaldo G.**, US Department of Agriculture, "Air Quality: Reducing Air Emissions from Cattle Feedyards."

**Harner III, Joseph P., and Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, "Kansas Environmental Leadership Program (KELP) 2010."

**Harner III, Joseph P., and Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$30,000, "Kansas Environmental Leadership Program Redesign (FFY 2007)."

**Hutchinson, Stacy L., and Keane, Timothy D.** (Landscape Architecture/Regional and Community Planning), Johnson County Public Works, \$21,956, "Johnson County Stormwater Infiltration Demonstration."

**Hutchinson, Stacy L., Harrington Jr, John A.** (Geography), and **Rice, Charles W.** (Agronomy), National Science Foundation, "Purchase of a Gas Chromatograph Upgrade."

**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., and Hutchinson, J. M. Shawn** (Geography), US Department of Defense, \$157,478, "Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability."

**Hutchinson, Stacy L., and Hutchinson, J. M. Shawn** (Geography), US Department of the Interior, \$94,340, "Range and Training Lands Assessment on Fort Riley."

**Maghirang, Ronaldo G., Graham, Steven M., and Harner III, Joseph P.**, US Department of Agriculture, \$136,006, "Air Quality: Reducing Air Emissions from Cattle Feedyards."

**Maghirang, Ronaldo G.**, US Department of Agriculture, \$473,000, "Establishing New Grain Packing Factors: Field Data from the Western U.S.."

**Maghirang, Ronaldo G.**, US Department of Agriculture, \$19,000, "Modeling Insect Movement During Grain Handling in Bucket Elevators."

**Nejadhashemi, Amirpouyan, Devlin, Daniel L., Douglas-Mankin, Kyle R., Graham, Steven M., and Hargrove, William L.** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), US Department of the Interior, "Kansas Water Resources Research Institute."

**Powell, G. Morgan**, US Environmental Protection Agency, \$11,600, "Kansas Environmental Leadership Program (KELP) 05-06 Class."

**Price, Randy R.**, American Sugar Cane League, \$15,500, "Development of New Technologies to Estimate Sugarcane Yields and Improve Mechanical Planters."

**Rogers, Danny H., Gillen, Robert L.** (Agricultural Research Center-Hays), **Golden, Bill B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$37,227, "Water Conservation - Increase Efficiency in Usage."

**Rogers, Danny H., Golden, Bill B.** (Agricultural Economics), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$8,684, "Water Conservation- Increased Efficiency in Usage."

**Rogers, Danny H., Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Dumler, Troy** (Southwest Area Office), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, P. V. Vara** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Staggenborg, Scott A.** (Agronomy), US Department of Agriculture, \$5,049, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Slocombe, John W.**, US Department of Agriculture, \$180,000, "Kansas AgrAbility Project."

**Steichen, James M.**, and **Zhang, Naiqian**, US Department of Defense, "Continuous, Wireless Monitoring of Sediment Flux at Multiple Low-Water Stream Crossings on Tank Trails."

**Wang, Donghai, Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), Kansas Grain Sorghum Commission, \$12,600, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

**Wang, Donghai**, and **Sun, X. Susan** (Grain Science and Industry), Kansas Soybean Commission, \$20,280, "Soy Oil Latex for Pressure Sensitive Adhesives."

**Wang, Donghai, and Pei, Zhijian** (Industrial and Manufacturing Systems Engineering), National Science Foundation, \$180,017, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

**Wang, Donghai, and Sun, X. Susan** (Grain Science and Industry), The United Sorghum Checkoff Program Board, \$30,087, "Protein Adhesives from Low-Cost Sorghum DDGS."

**Wang, Donghai, and Sun, X. Susan** (Grain Science and Industry), The United Sorghum Checkoff Program Board, \$15,789, "Protein Adhesives from Low-Cost Sorghum DDGS."

**Wang, Donghai, Staggenborg, Scott A.** (Agronomy), and **Wu, Xiaorong**, The United Sorghum Checkoff Program Board, \$36,389, "Stablization of Sweet Sorghum Juice for Year-round Use (Research Agreement)."

**Wang, Donghai**, US Department of Agriculture, \$35,000, "Bio-industrial Uses of Sorghum Proteins."

**Wang, Donghai**, US Department of Agriculture, \$45,000, "Developing Technology and Procedures to Measure Characteristics of Grain and Plants."

**Wang, Donghai, and Sun, X. Susan** (Grain Science and Industry), US Department of Agriculture, \$13,333, "Sorghum Protein Adhesives from Low Cost DDGS."

**Wang, Donghai, Madl, Ronald L.** (Grain Science and Industry), and **Staggenborg, Scott A.** (Agronomy), US Department of Transportation, \$21,000, "Bio-Oil From Pyrolysis of Sorghum Biomass."

**Wang, Donghai**, US Department of Transportation, \$15,700, "Designer Sorghums: Development of High Yielding Sorghum Cultivars with Modified Endosperm Matrices for Optimized Low Energy Input Ethanol Production and High Nutrition Feed."

**Wang, Donghai, and Staggenborg, Scott A.** (Agronomy), US Department of Transportation, \$4,219, "Evaluation of Sweet Sorghum Hybrids as a Bioenergy Feedstock for the South Central U.S. - Germplasm Development and Agronomic Practices."

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

**Wu, Xiaorong, Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai**, The United Sorghum Checkoff Program Board, "Stablization of Sweet Sorghum Juice for Year-round Use (Research Agreement)."

**Yuan, Wenqiao**, National Science Foundation, \$400,000, "CAREER: Multi-Scale Structured Solid Carriers Enabling Algae Biofuel Manufacturing in the Ocean."

**Yuan, Wenqiao, and Riding, Kyle A.**, National Science Foundation, \$63,185, "Collaborative Research: New Natural Supplementary Cementitious Materials for Concrete."

**Zhang, Naiqian**, AGCO Corporation, \$30,000, "Optical Processing Methods for Application to Agricultural Machines."

**Zhang, Naiqian, Neilsen, Mitchell L.** (Computing and Information Sciences), **Singh, Gurdip** (Computing and Information Sciences), **Spears, Jacqueline D.** (Dean of Education), and **Wallentine, Virgil E.** (Computing and Information Sciences), National Science Foundation, \$117,984 (includes \$11,790 from industry match), "Infusing System Development and Sensor Technology in Education - Letter of Intent."

**Zhang, Naiqian**, US Department of Agriculture, \$26,000, "A Laser System for High-Resolution Soil Surface and Standing Residue Analysis."

**Zhang, Naiqian**, and **Steichen, James M.**, US Department of Defense, \$384,275, "Continuous, Wireless Monitoring of Sediment Flux at Multiple Low-Water Stream Crossings on Tank Trails."

### **CENTR FOR HAZARDOUS SUBSTANCE RESEARCH**

**Boguski, Terrie K., Leven, Blase A., and Martin, Sabine E.**, US Environmental Protection Agency, "Technical Assistance to Brownfields Communities, Zone 3."

**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.**, US Department of Defense, \$222,000, "Urban Operations Laboratory."

**Leven, Blase A., Eckels, Steven J.** (Institute for Environmental Research), **Erickson, Larry E.**, and **Guikema, James A.** (Office of the Vice President for Research), US Department of Defense, "Urban Operations Laboratory."

**Leven, Blase A., Boguski, Terrie K., and Martin, Sabine E.**, US Environmental Protection Agency, "Technical Assistance to Brownfields Communities, Zone 3."

**Martin, Sabine E., Boguski, Terrie K., and Leven, Blase A.**, US Environmental Protection Agency, \$1,000,000, "Technical Assistance to Brownfields Communities, Zone 3."

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**Anthony, Jennifer L.**, National Science Foundation, \$137,864, "Synthesis of Nanoporous Materials in Ionic Liquids: A Fundamental Study of the Solvent's Role."

**Berry, Vikas**, Kansas State University Foundation, \$25,500, "Characterization of the Electrical & Detection Properties of Ultrasensitive & Highly-Specific Graphene Sensors for Cancer Marker."

**Berry, Vikas**, National Science Foundation, \$76,000, "EAGER: Graphene-Nanoribbons of Controlled Width and Crystallographic-Orientation."

**Berry, Vikas, Edgar, James H., Klabunde, Kenneth J.** (Chemistry), **Li, Jun** (Chemistry), and **Sorensen, Christopher M.** (Physics), National Science Foundation, "MRI: Acquisition of a Field Emission Scanning Microscope for Kansas State University."

**Edgar, James H., Berry, Vikas, Klabunde, Kenneth J.** (Chemistry), **Li, Jun** (Chemistry), and **Sorensen, Christopher M.** (Physics), National Science Foundation, \$207,571, "MRI: Acquisition of a Field Emission Scanning Microscope for Kansas State University."

**Edgar, James H.**, US Department of Defense, \$426,272 (includes \$82,547 from KTEC), "High K Oxide Insulated Gate Group III Nitride-Based FETs."

**Edgar, James H.**, US Department of Homeland Security, \$95,034, "ARI-SA: Boron-rich Semiconductors for Neutron Detectors."

**Erickson, Larry E.**, and **Davis, Lawrence C.** (Biochemistry), Mango Remediation, \$1,000, "Remediation of Chlorinated Solvents in Soil and Groudwater."

**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$36,000, "Urban Operations Laboratory."

**Hohn, Keith L.**, US Army, \$50,000, "Bimetallic Nanoparticle Catalysts for Reforming of Logistics Fuels."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$12,558, "Kansas Defense 2010."

**Pfromm, Peter H.**, Boehringer Ingelheim Vetmedica, Inc., \$7,064, "Topics in Antigen Production."

**Pfromm, Peter H., Douglas-Mankin, Kyle R.** (Biological and Agricultural Engineering), **Peterson, Jeffrey M.** (Agricultural Economics), and **Rezac, Mary E.**, 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., Madl, Ronald L.** (Grain Science and Industry), and **Nelson, Richard G.** (Kansas Industrial Extension Services), National Science Foundation, \$51,000, "I/UCRC Center for Bioenergy Research and Development."

**Rezac, Mary E., Douglas-Mankin, Kyle R.** (Biological and Agricultural Engineering), **Peterson, Jeffrey M.** (Agricultural Economics), and **Pfromm, Peter H.**, National Science Foundation, \$761,737 (includes \$84,081 from Kansas Bioscience Authority), "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

**Rezac, Mary E., Anderson, Dawn L.** (Dean of Human Ecology), **Maes, Sue C.** (Dean of Continuing Education), and **Maier, Dirk E.** (Grain Science and Industry), US Department of Agriculture, "Biobased Products and Bioenergy Multi-University Graduate Program."

**Rezac, Mary E.**, US Department of Energy, \$225,000, "High Temperature Membrane Reactors."

**Rezac, Mary E.**, and **Madl, Ronald L.** (Grain Science and Industry), US Department of Energy, \$713,625, "Kansas State University Center for Sustainable Energy."

**Schlup, John R.**, US Department of Transportation, \$25,717, "Online Courses on Biorenewable Resources and on Engineering Sustainability."

## **CIVIL ENGINEERING**

**Dissanayake, Sunanda**, Kansas Department of Transportation, \$23,000, "Improving Safety of Teenage and Young Adult Drivers in Kansas (Phase 11)."

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

**Dissanayake, Sunanda, Babcock, Michael W.** (Economics), **Hossain, Mustaque A., Landman, E. Dean, Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R., Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.**, US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

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

**Esmaily, Asadollah**, and **Peterman, Robert J.**, Kansas Department of Transportation, "Evaluation and Long-Term Monitoring of the Time-Dependent Characteristics of Self-Consolidating Concrete in an Instrumented Kansas Prestressed Concrete Bridge."

**Esmaily, Asadollah**, and **Rasheed, Hayder A.**, Kansas Department of Transportation, "LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns: Phase I."

**Hossain, Mustaque A.**, and **Riding, Kyle A.**, Kansas Department of Transportation, "Evaluation of Canadian Unconfined Aggregate Freeze-Thaw Tests for Identifying Nondurable Aggregates (K-TRAN KSU-10-9)."

**Hossain, Mustaque A.**, Kansas Department of Transportation, \$15,000, "Kansas Pavement Preservation Initiative: Development of a Maintenance Technical Advisory Guide for Bituminous Pavements in Kansas."

**Hossain, Mustaque A.**, US Department of Transportation, \$28,704, "Accelerated Pavement Testing of Unpaved Roads with Geocell Reinforcement."

**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., Babcock, Michael W.** (Economics), **Dissanayake, Sunanda, Landman, E. Dean, Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R., Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.**, US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

**Hossain, Mustaque A.**, US Department of Transportation, \$286,000, "Midwest States Accelerated Pavement Testing Pooled Funds Program - Accelerated Pavement Testing of Low-Volume Paved Roads with Geocell Reinforcement (CISL Experiment No. 16)."

**Hossain, Mustaque A., Dissanayake, Sunanda, Peterman, Robert J., and Stokes, Robert W.**, US Department of Transportation, \$478,229 (includes \$200,000 from Kansas Dept of Transportation/KTRAN), "Region VII University Transportation Center (UTC)."

**Landman, E. Dean, and Russell, Eugene R.**, Kansas Department of Transportation, "Accommodating Oversized/Overweight Vehicles at Roundabouts."

**Landman, E. Dean, and Russell, Eugene R.**, Transoft Solutions, Inc, "Accommodating Oversized/Overweight Vehicles at Roundabouts."

**Landman, E. Dean, and Russell, Eugene R.**, US Department of Transportation, "Accommodating Oversized/Overweight Vehicles at Roundabouts Pooled Fund Study."

**Landman, E. Dean, Babcock, Michael W.** (Economics), **Dissanayake, Sunanda, Hossain, Mustaque A., Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R., Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.**, US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

**Najjar, Yacoub M., and Stokes, Robert W.**, US Department of Transportation, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

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

**Peterman, Robert J., and Esmaily, Asadollah**, Kansas Department of Transportation, \$67,850, "Evaluation and Long-Term Monitoring of the Time-Dependent Characteristics of Self-Consolidating Concrete in an Instrumented Kansas Presetressed Concrete Bridge."

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

**Rasheed, Hayder A., and Esmaily, Asadollah**, Kansas Department of Transportation, \$59,900, "LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns: Phase I."

**Rasheed, Hayder A., Davis, Lawrence C.** (Biochemistry), and **Peric, Dunja**, National Science Foundation, \$20,100, "EAGER: Engineered Bio-Composites for Sustainable Concrete."

**Russell, Eugene R., and Landman, E. Dean**, Kansas Department of Transportation, \$60,000, "Accommodating Oversized/Overweight Vehicles at Roundabouts."

**Russell, Eugene R., and Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$14,750, "Study of KDOT Policy on Lane and Shoulder Minimum Width for Application of CLRS."

**Russell, Eugene R., and Landman, E. Dean**, Transoft Solutions, Inc, \$25,000 (includes \$15,000 from in-kind contribution), "Accommodating Oversized/Overweight Vehicles at Roundabouts."

**Russell, Eugene R., and Landman, E. Dean**, US Department of Transportation, \$195,000, "Accommodating Oversized/Overweight Vehicles at Roundabouts Pooled Fund Study."

**Russell, Eugene R., Babcock, Michael W.** (Economics), **Dissanayake, Sunanda, Hossain, Mustaque A., Landman, E. Dean, Leatherman, John C.** (Agricultural Economics), **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.**, US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

**Scoglio, Caterina M., Garrett, Karen A.** (Plant Pathology), and **Hutchinson, J. M. Shawn** (Geography), US Department of Agriculture, \$4,000, "Applying Landscape Connectivity to Model the Spread of Plant Pathogens."

**Steward, David R., Aistrup, Joseph** (Political Science), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), **Peterson, Jeffrey M.** (Agricultural Economics), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$300,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

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

**Stokes, Robert W., Babcock, Michael W.** (Economics), **Dissanayake, Sunanda, Hossain, Mustaque A., Landman, E. Dean, Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R., and Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$300,000, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

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

**Stokes, Robert W., and Najjar, Yacoub M.**, US Department of Transportation, \$463,400, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

**Stokes, Robert W.**, US Department of Transportation, \$100,000, "Traffic Assistance Services for Kansas (TASK) Program (FY 2009-2011)."

**Warren, Steven, Andresen, Daniel A.** (Computing and Information Sciences), and **Hatcliff, John M.** (Computing and Information Sciences), National Science Foundation, \$209,887, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

## **COMPUTING AND INFORMATION SCIENCES**

**Amtoft, Torben, Hatcliff, John M., Ou, Xinming (Simon), and Robby, -**, Rockwell Collins, Inc., "A Domain Specific Language for Defining High-Assurance Secure-Network Guards."

**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., and Dodds, Walter K.** (Biology), National Science Foundation, \$496,079, "Collaborative Research: EPSCoR RII Track 2 Oklahoma and Kansas: A cyberCommons for Ecological Forecasting."

**Andresen, Daniel A., Hatcliff, John M., and Warren, Steven** (Civil Engineering), National Science Foundation, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

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

**Caragea, Doina, Das, Sanjoy** (Electrical and Computer Engineering), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$34,073, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

**DeLoach, Scott A.**, US Department of Defense, \$86,331, "Human-Robot Teams Informed By Human Performance Moderator Functions."

**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$72,000, "Urban Operations Laboratory."

**Gustafson, David A., and Singh, Gurdip**, CivicPlus, "CIS Internship Program."

**Gustafson, David A., and Singh, Gurdip**, Imagemakers, "CIS Internship Program."

**Hatcliff, John M., Andresen, Daniel A., and Warren, Steven** (Civil Engineering), National Science Foundation, \$629,661, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

**Hatcliff, John M., Amtoft, Torben, Ou, Xinming (Simon), and Robby, -**, Rockwell Collins, Inc., \$85,000, "A Domain Specific Language for Defining High-Assurance Secure-Network Guards."

**Hatcliff, John M., Amtoft, Torben, Banerjee, Anindya, Ou, Xinming (Simon), and Robby, -**, US Department of Defense, \$600,000, "Evidence-based Trust in Large-Scale MLS Systems."

**Hsu, William H., Das, Sanjoy** (Electrical and Computer Engineering), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$511, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

**Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D.** (Dean of Education), **Wallentine, Virgil E.**, and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$353,952 (includes \$35,370 from industry match), "Infusing System Development and Sensor Technology in Education - Letter of Intent."

**Neilsen, Mitchell L.**, Sandia National Laboratories, \$40,000, "Interface Development for Thermal Battery Models."

**Neilsen, Mitchell L.**, US Department of Agriculture, \$20,000, "Development of Software Tools for Predicting Embankment Erosion of Earthen Dams."

**Neilsen, Mitchell L.**, US Department of Agriculture, \$35,000, "Integration of Spillway Erosion Technology and WinTR-20 with WinDAM."

**Ou, Xinming (Simon)**, Hewlett-Packard Company, \$73,000, "A New Approach to Rigorous Risk Analytics using Attack Graphs."

**Ou, Xinming (Simon)**, National Science Foundation, \$229,830, "CAREER: Reasoning about Uncertainty in Cybersecurity."

**Ou, Xinming (Simon), Amtoft, Torben, Hatcliff, John M., and Robby, -**, Rockwell Collins, Inc., "A Domain Specific Language for Defining High-Assurance Secure-Network Guards."

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**Robby, -**, National Science Foundation, \$79,992, "Formal, Integrated Analysis Framework for Contract-Based Reasoning of Strong Properties of Open Systems."

**Robby, -, Amtoft, Torben, Hatcliff, John M., and Ou, Xinming (Simon)**, Rockwell Collins, Inc., "A Domain Specific Language for Defining High-Assurance Secure-Network Guards."

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**Schmidt, David A.**, National Science Foundation, \$299,327, "Abstract Parsing: Static Analysis of Dynamically Generated String Output."

**Singh, Gurdip**, Aceware Systemc, Inc., \$21,495, "CIS Internship Program."

**Singh, Gurdip, and Gustafson, David A.**, CivicPlus, \$13,405, "CIS Internship Program."

**Singh, Gurdip, and Gustafson, David A.**, Imagemakers, \$8,467, "CIS Internship Program."

**Singh, Gurdip, Neilsen, Mitchell L., Spears, Jacqueline D.** (Dean of Education), **Wallentine, Virgil E.**, and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Development and Sensor Technology in Education - Letter of Intent."

**Steward, David R., Aistrup, Joseph** (Political Science), **Kulcsar, Laszlo** (Sociology, Anthropology, and Social Work), **Peterson, Jeffrey M.** (Agricultural Economics), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$150,000, "Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer."

**Wallentine, Virgil E., Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D.** (Dean of Education), and **Zhang, Naqian** (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Development and Sensor Technology in Education - Letter of Intent."

## **DEAN OF ENGINEERING**

**Bitsie-Baldwin, LaVerne, Douglas-Mankin, Kimberly D., and Starrett, Shelli K.** (Electrical and Computer Engineering), National Science Foundation, "K-State STEP: Increasing the Number and Diversity of Students Graduating in STEM Fields at Kansas State University."

**Bitsie-Baldwin, LaVerne, Carter, David A.** (Kansas Industrial Extension Services), **Hamel, Ryan J.** (Kansas Industrial Extension Services), and **Larson, Nancy J.** (Kansas Industrial Extension Services), US Environmental Protection Agency, "Kansas Pollution Prevention Grants FY09."

**Douglas-Mankin, Kimberly D., Bitsie-Baldwin, LaVerne, and Starrett, Shelli K.** (Electrical and Computer Engineering), National Science Foundation, \$318,694, "K-State STEP: Increasing the Number and Diversity of Students Graduating in STEM Fields at Kansas State University."

**Larson, Nancy J.**, Multisponsor, \$5,189, "KINEX Multi-Sponsor."

## **ELECTRICAL AND COMPUTER ENGINEERING**

**Carpenter, Kenneth H.**, US Department of Energy, \$35,000, "Integrated Firing-System/Initiation-Train Modeling Enhancement."

**Das, Sanjoy, Caragea, Doina** (Computing and Information Sciences), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$34,073, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

**Das, Sanjoy, and Pahwa, Anil**, National Science Foundation, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."

**Das, Sanjoy, Hsu, William H.** (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$1,022, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

**Das, Sanjoy, Natarajan, Balasubramaniam, Schulz, Noel N., and Scoglio, Caterina M.**, US Department of Defense, "Advanced Computational and Sensor Network Methods for MVDC Shipboard Power Systems."

**Day, Dwight D., and Natarajan, Balasubramaniam**, Kansas Department of Transportation, "Process to Automatically Rate Severity and Extent of D-Cracking on Concrete Pavement from Line-Scan Images."

**Day, Dwight D.**, Sandia National Laboratories, \$63,059, "Advanced Memory Subsystem Research."

**Devore, John J., Lewis, Christopher L., and Natarajan, Balasubramaniam**, US Department of Energy, "Communication and Controls Development."

**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$36,000, "Urban Operations Laboratory."

**Gruenbacher, Don M., and Schulz, Noel N.**, Kansas State University Foundation, \$60,000, "Power Affiliates."

**Gruenbacher, Don M., Monaco, Gregory E.** (Psychology), and **Scoglio, Caterina M.**, National Science Foundation, "GpENI: Great Plains Environment for Network Innovation."

**Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., Natarajan, Balasubramaniam, Pahwa, Anil, and Scoglio, Caterina M.**, US Department of Energy, \$713,625, "Kansas Wind Energy Consortium."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$17,125, "Kansas Defense 2010."

**Kuhn, William B., and Sobering, Timothy J.** (Vice President Electronics Design Laboratory), Ball Aerospace & Technologies Corporation, \$11,198, "Microtransceiver Development and Support."

**Kuhn, William B., Lewis, Christopher L., Miller, Ruth D., Pahwa, Anil, and Rys, Andrew**, National Science Foundation, "Winds of Change in ECE: Infusing Sustainability into the Program."

**Kuhn, William B.**, US Department of Energy, \$9,755, "Electrical Testing and Characterization of Thin Film Capacitors on Low Temperature Co-Fired Ceramic (LTCC)."

**Kuhn, William B.**, US Department of Energy, \$96,586, "Research in RFIC Design and LTCC Filter Implementations, Phase I FY2010 and Phase II FY2011."

**Kuhn, William B.**, US Department of Energy, \$96,000, "RFIC Development in Peregrine SOS Phase I."

**Lewis, Christopher L., Kuhn, William B., Miller, Ruth D., Pahwa, Anil, and Rys, Andrew**, National Science Foundation, "Winds of Change in ECE: Infusing Sustainability into the Program."

**Lewis, Christopher L., Devore, John J., and Natarajan, Balasubramaniam**, US Department of Energy, \$45,724, "Communication and Controls Development."

**Lewis, Christopher L., Gruenbacher, Don M., Miller, Ruth D., Natarajan, Balasubramaniam, Pahwa, Anil, and Scoglio, Caterina M.**, US Department of Energy, "Kansas Wind Energy Consortium."

**Miller, Ruth D., Kuhn, William B., Lewis, Christopher L., Pahwa, Anil, and Rys, Andrew**, National Science Foundation, "Winds of Change in ECE: Infusing Sustainability into the Program."

**Miller, Ruth D., Gruenbacher, Don M., Lewis, Christopher L., Natarajan, Balasubramaniam, Pahwa, Anil, and Scoglio, Caterina M.**, US Department of Energy, "Kansas Wind Energy Consortium."

**Miller, Ruth D.**, US Department of Energy, \$22,000, "Wind for Schools Wind Application Center: Kansas."

**Natarajan, Balasubramaniam**, and **Day, Dwight D.**, Kansas Department of Transportation, \$75,000, "Process to Automatically Rate Severity and Extent of D-Cracking on Concrete Pavement from Line-Scan Images."

**Natarajan, Balasubramaniam, Das, Sanjoy, Schulz, Noel N.**, and **Scoglio, Caterina M.**, US Department of Defense, "Advanced Computational and Sensor Network Methods for MVDC Shipboard Power Systems."

**Natarajan, Balasubramaniam, Devore, John J.**, and **Lewis, Christopher L.**, US Department of Energy, "Communication and Controls Development."

**Natarajan, Balasubramaniam, Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., Pahwa, Anil**, and **Scoglio, Caterina M.**, US Department of Energy, "Kansas Wind Energy Consortium."

**Natarajan, Balasubramaniam**, US Department of Transportation, \$25,000, "Validation of Image Processing Algorithms for Quantifying Pavement Cracks Based on the Emerging AASHTO Standard."

**Pahwa, Anil**, and **Das, Sanjoy**, National Science Foundation, \$92,833, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."

**Pahwa, Anil, Kuhn, William B., Lewis, Christopher L., Miller, Ruth D.**, and **Rys, Andrew**, National Science Foundation, \$149,907, "Winds of Change in ECE: Infusing Sustainability into the Program."

**Pahwa, Anil, Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., Natarajan, Balasubramaniam**, and **Scoglio, Caterina M.**, US Department of Energy, "Kansas Wind Energy Consortium."

**Rys, Andrew, Kuhn, William B., Lewis, Christopher L., Miller, Ruth D.**, and **Pahwa, Anil**, National Science Foundation, "Winds of Change in ECE: Infusing Sustainability into the Program."

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

**Schulz, Noel N., Das, Sanjoy, Natarajan, Balasubramaniam**, and **Scoglio, Caterina M.**, US Department of Defense, \$569,380, "Advanced Computational and Sensor Network Methods for MVDC Shipboard Power Systems."

**Schulz, Noel N.**, US Navy, \$60,019, "Electric Ship Research and Development Consortium."

**Scoglio, Caterina M., Gruenbacher, Don M.**, and **Monaco, Gregory E.** (Psychology), National Science Foundation, \$21,629, "GpENI: Great Plains Environment for Network Innovation."

**Scoglio, Caterina M.**, and **Garrett, Karen A.** (Plant Pathology), US Department of Agriculture, "Network Analysis for Forecasting the Spatial Progress of Soybean Rust Epidemics and Optimizing Sentinel Plot Strategies."

**Scoglio, Caterina M., Das, Sanjoy, Natarajan, Balasubramaniam, and Schulz, Noel N.**, US Department of Defense, "Advanced Computational and Sensor Network Methods for MVDC Shipboard Power Systems."

**Scoglio, Caterina M., Gruenbacher, Don M., Lewis, Christopher L., Miller, Ruth D., Natarajan, Balasubramaniam, and Pahwa, Anil**, US Department of Energy, "Kansas Wind Energy Consortium."

**Soldan, David L.**, US Department of Agriculture, \$16,700, "Development of Computer Models for Stored Product Insect Population Dynamics in Flour Mills."

**Starrett, Shelli K., Bitsie-Baldwin, LaVerne** (Dean of Engineering), and **Douglas-Mankin, Kimberly D.** (Dean of Engineering), National Science Foundation, \$92,953, "K-State STEP: Increasing the Number and Diversity of Students Graduating in STEM Fields at Kansas State University."

**Warren, Steven, and Barstow, Thomas J.** (Kinesiology), National Aeronautics and Space Administration, \$179,880, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

**Warren, Steven**, National Science Foundation, \$111,899, "Collaborative Research: Portable Cyber-Laboratories: Virtual Instruments and Affordable Prototyping Kits to Enhance Learning and Improve Access to Electrical Engineering Education."

**Warren, Steven, Bennett, Andrew G.** (Mathematics), and **Rebello, Nobel S.** (Physics), National Science Foundation, \$67,334, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

### **ENGINEERING EXPERIMENT STATION**

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$4,000, "ADMRC Administration."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$35,679, "Kansas Defense 2010."

**Jones, Byron W.**, Kansas Technology Enterprise Corporation, \$27,400, "Kansas Defense 2010."

### **INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING**

**Easton, Todd W.**, US Department of Defense, \$40,267, "Part-Time M.S. Program in Industrial Engineering - Fall 2009."

**Easton, Todd W.**, US Department of Defense, \$47,231, "Part-Time M.S. Program in Industrial Engineering - Spring 2010."

**Easton, Todd W.**, US Department of Defense, \$25,182, "Part-time MS Program in Industrial Engineering - Summer 2010."

**Easton, Todd W.**, Westside High School, \$18,000, "Developing a Scheduling Software Package for Westside High School."

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

**Pei, Zhijian**, Crystal Technology, Inc., \$30,000, "Development of Advance Fabrication Process of Lithium Niobate."

**Pei, Zhijian**, National Science Foundation, \$22,000, "Collaborative Research: Fundamental Research on Titanium Drilling with Rotary Ultrasonic Machining."

**Pei, Zhijian**, and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, \$180,017, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

**Pei, Zhijian**, National Science Foundation, \$24,827, "Workshop/Collaborative Research: 2010 NSF Proposal Writing Workshop, September 1 and 2, 2010 University of Nebraska - Lincoln."

**Rys, Malgorzata J.**, and **Russell, Eugene R.** (Civil Engineering), Kansas Department of Transportation, \$44,250, "Study of KDOT Policy on Lane and Shoulder Minimum Width for Application of CLRS."

**Rys, Malgorzata J.**, **Harrington Jr, John A.** (Geography), and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Data Collection to Support NBAF Risk Assessment."

**Rys, Malgorzata J.**, **Harrington Jr, John A.** (Geography), **Vanier, Martha A.** (National Agricultural Biosecurity Center), and **Zurek, Ludek** (Entomology), US Department of Homeland Security, "Data Collection to Support NBAF Risk Assessment."

**Rys, Malgorzata J.**, **Babcock, Michael W.** (Economics), **Dissanayake, Sunanda** (Civil Engineering), **Hossain, Mustaque A.** (Civil Engineering), **Landman, E. Dean** (Civil Engineering), **Leatherman, John C.** (Agricultural Economics), **Russell, Eugene R.** (Civil Engineering), and **Stokes, Robert W.** (Civil Engineering), US Department of Transportation, "Kansas State University Transportation Center: High Priority Demonstration (HPD) Project."

#### **INSTITUTE FOR ENVIRONMENTAL RESEARCH**

**Eckels, Steven J.**, Multisponsor, \$162,663, "Institute for Environmental Research Support."

**Eckels, Steven J.**, PAX Streamline, Inc., \$342,750, "Evaluation of Boiling in an Enhanced Refrigerant Evaporator."

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

**Eckels, Steven J.**, **Erickson, Larry E.** (Center for Hazardous Substance Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$120,000, "Urban Operations Laboratory."

**Eckels, Steven J., Chapman, Kirby S.** (National Gas Machinery Laboratory), and **Jones, Byron W.**, US Department of Transportation, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

**Jones, Byron W.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Boeing Company, \$120,000, "Sponsor Research Agreement - KSU Project Agreement."

**Jones, Byron W.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Transportation, \$55,220, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."

**Jones, Byron W.**, US Department of Transportation, \$27,957, "Exposure to Flame Retardants in Commercial Aircraft."

**Jones, Byron W.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Transportation, \$53,403, "Further Studies of Infectious Disease Transmission in Airliner Cabins."

**Jones, Byron W.**, US Department of Transportation, \$29,999, "Phase II: In-Flight Sensor System and Database Deployment."

**Jones, Byron W., Chapman, Kirby S.** (National Gas Machinery Laboratory), and **Eckels, Steven J.**, US Department of Transportation, \$96,110, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

**McCullough, Elizabeth A.**, and **Eckels, Steven J.**, US Department of Defense, \$359,927, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

### **KANSAS INDUSTRIAL EXTENSION SERVICES**

**Carter, David A., Hamel, Ryan J.**, and **Snead, Bruce C.**, US Department of Agriculture, \$4,500 (includes \$4,500 from participant support), "Energy Audits for Agricultural Producers and Rural Small Businesses in the State of Kansas."

**Carter, David A., Bitsie-Baldwin, LaVerne** (Dean of Engineering), **Hamel, Ryan J.**, and **Larson, Nancy J.**, US Environmental Protection Agency, "Kansas Pollution Prevention Grants FY09."

**Hamel, Ryan J., Carter, David A.**, and **Snead, Bruce C.**, US Department of Agriculture, "Energy Audits for Agricultural Producers and Rural Small Businesses in the State of Kansas."

**Hamel, Ryan J., Bitsie-Baldwin, LaVerne** (Dean of Engineering), **Carter, David A.**, and **Larson, Nancy J.**, US Environmental Protection Agency, "Kansas Pollution Prevention Grants FY09."

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

**Larson, Nancy J.**, Kansas Health Foundation, \$23,581, "Operation Medicine Cabinet - A Better Place for Pharmacy Waste."

**Larson, Nancy J.**, Multisponsor, \$10,536, "KINEX Multi-Sponsor."

**Larson, Nancy J., Bitsie-Baldwin, LaVerne** (Dean of Engineering), **Carter, David A.**, and **Hamel, Ryan J.**, US Environmental Protection Agency, \$103,882 (includes \$38,882 from industry match), "Kansas Pollution Prevention Grants FY09."

**Larson, Nancy J.**, US Environmental Protection Agency, \$61,882 (includes \$6,000 from industry match), "KSU P2 Source Reduction Champions for Change."

**Larson, Nancy J.**, US Environmental Protection Agency, \$275,000, "Small Business Environmental Assistance Program - FY10."

**Nelson, Richard G., Madl, Ronald L.** (Grain Science and Industry), and **Rezac, Mary E.** (Chemical Engineering), National Science Foundation, "I/UCRC Center for Bioenergy Research and Development."

**Nelson, Richard G.**, US Department of Energy, \$29,795, "Modeling and Mapping Land Management and Net Carbon Emissions: Decision Support for Biofuels and Carbon Management on US Agricultural Lands."

**Nelson, Richard G., Bergtold, Jason S.** (Agricultural Economics), **Langemeier, Michael R.** (Agricultural Economics), **Staggenborg, Scott A.** (Agronomy), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Transportation, \$11,333, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."

**Nelson, Richard G., Langemeier, Michael R.** (Agricultural Economics), **Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$12,190, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

**Snead, Bruce C., Carter, David A.**, and **Hamel, Ryan J.**, US Department of Agriculture, "Energy Audits for Agricultural Producers and Rural Small Businesses in the State of Kansas."

**Snead, Bruce C.**, and **Hanson, Brian R.**, US Environmental Protection Agency, \$475,632, "National Radon Program Services."

**Snead, Bruce C.**, US Environmental Protection Agency, \$12,182, "National Radon-Focused Risk Reduction Training Project."

**Snead, Bruce C.**, US Environmental Protection Agency, \$203,631 (includes \$71,200 from non-federal in kind), "Radon Projects for Kansas."

**Snead, Bruce C.**, US Environmental Protection Agency, \$20,500 (includes \$10,000 from participant in-kind support), "Radon Training for the Nebraska State Radon Program 2009 - 10."

**Snead, Bruce C.**, US Environmental Protection Agency, \$39,132, "Regional Radon Training Center."

## **MECHANICAL AND NUCLEAR ENGINEERING**

**Beck, B. Terry, Hosni, Mohammad H., and Sorensen, Christopher M.** (Physics), PAX Streamline, Inc., "Nanosecond Photography for Bubble Visualization and Measurement."

**Beck, B. Terry, Hosni, Mohammad H., and Jones, Byron W.**, US Department of Energy, "Experimental Development and Demonstration of Ultrasonic Measurement Diagnostics for Sodium Fast Reactor Thermohydraulics."

**Beck, B. Terry, and Hosni, Mohammad H.**, Whirlpool Corporation, "Dryer Door Viscous Latch Development."

**Cai, Liang-Wu**, US Department of Defense, \$65,887, "Two and Three-Dimensional Broadband Acoustic Metamaterials via Homogenization and Multiple Scattering from Arrays of Natural Minerals."

**Eckels, Steven J.**, US Department of Defense, \$60,300, "A study of Long-Range Accoustic Propagation."

**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Office of the Vice President for Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$114,000, "Urban Operations Laboratory."

**Geuther, Jeffery**, Sandia National Laboratories, \$354,611, "Voluntary Security Enhancements for the Research and Test Reactor at Kansas State University."

**Hosni, Mohammad H., and Jones, Byron W.** (Institute for Environmental Research), Boeing Company, "Sponsor Research Agreement - KSU Project Agreement."

**Hosni, Mohammad H., Beck, B. Terry, and Sorensen, Christopher M.** (Physics), PAX Streamline, Inc., \$50,212, "Nanosecond Photography for Bubble Visualization and Measurement."

**Hosni, Mohammad H., Beck, B. Terry, and Jones, Byron W.**, US Department of Energy, "Experimental Development and Demonstration of Ultrasonic Measurement Diagnostics for Sodium Fast Reactor Thermohydraulics."

**Hosni, Mohammad H.**, US Department of Energy, \$5,000, "Nuclear Energy University Programs Fellowship and Scholarship Support."

**Hosni, Mohammad H., and Jones, Byron W.** (Institute for Environmental Research), US Department of Transportation, \$55,220, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."

**Hosni, Mohammad H., and Jones, Byron W.** (Institute for Environmental Research), US Department of Transportation, \$53,403, "Further Studies of Infectious Disease Transmission in Airliner Cabins."

**Hosni, Mohammad H., and Beck, B. Terry**, Whirlpool Corporation, \$18,253, "Dryer Door Viscous Latch Development."

**Jones, Byron W., Beck, B. Terry, and Hosni, Mohammad H.**, US Department of Energy, \$110,769, "Experimental Development and Demonstration of Ultrasonic Measurement Diagnostics for Sodium Fast Reactor Thermohydraulics."

**McGregor, Douglas S.**, US Department of Defense, \$429,604, "Multi-Disciplined Research in Nuclear Detection."

**McGregor, Douglas S.**, US Department of Defense, \$174,073, "Vapor Growth and Material Characterization of Mercuric Iodide (HgI<sub>2</sub>)."

**Shultis, J. Kenneth**, US Department of Defense, \$25,000, "Development of Radiation Detector Models in Support of Alion's Sensor Virtual Prototyping Environment."

**Wang, Youqi**, Albany Engineered Composites, Inc., \$78,921, "3D Woven Fiber Preform Forming Analysis."

**Wang, Youqi**, National Aeronautics and Space Administration, \$76,487, "Micro-Geometry of 3-D Woven SiC and Carbon Fiber Preforms."

**Whaley, Paul M.**, US Department of Energy, \$194,899, "Kansas State University Infrastructure Support."

#### **NATIONAL GAS MACHINERY LABORATORY**

**Chapman, Kirby S., Eckels, Steven J.** (Institute for Environmental Research), and **Jones, Byron W.** (Institute for Environmental Research), US Department of Transportation, \$96,110, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

## COLLEGE OF HUMAN ECOLOGY

### DEAN OF HUMAN ECOLOGY

**Anderson, Dawn L., Maes, Sue C.** (Dean of Continuing Education), **Maier, Dirk E.** (Grain Science and Industry), and **Rezac, Mary E.** (Chemical Engineering), US Department of Agriculture, \$702,745 (includes \$110,071 from Oklahoma State University, \$64,899 from South Dakota State University, and \$69,000 from University of Arkansas), "Biobased Products and Bioenergy Multi-University Graduate Program."

**Anderson, Dawn L., and Moxley, Virginia M.,** US Department of Agriculture, "Resource Sharing for the Enhancement of Curricula in Core and Emerging Issues in the Plant Agricultural Sciences."

**Doll, Gayle,** Rothschild Foundation, \$23,411, "Age to Age Replication Project."

**Moxley, Virginia M.,** Great Plains IDEA Alliance, \$388,940, "Great Plains IDEA Lead Institution."

**Moxley, Virginia M.,** US Department of Agriculture, \$100,000, "Development of a Distance Education Consortium Among Southern Universities."

**Moxley, Virginia M., and Anderson, Dawn L.,** US Department of Agriculture, \$41,972, "Resource Sharing for the Enhancement of Curricula in Core and Emerging Issues in the Plant Agricultural Sciences."

**Moxley, Virginia M.,** US Department of Agriculture, \$1,500,000, "University Passport Program."

### HOSPITALITY MANAGEMENT AND DIETETICS

**Canter, Deborah D.,** American Dietetic Association, \$5,000, "Entrepreneurship in Action: Revenue Generation in Health Care Food and Nutrition Services."

**Canter, Deborah D., and Ok, Chihyung,** Kansas State University Foundation, "Customer Orientation of Service Employees, Rapport & Social Relationships: Influences on Residents' Satisfaction & Well-being."

**Kwon, Junehee,** Kansas State University Foundation, \$1,750, "Perceived Availability of & Attitudes toward Healthy Food Choices in Assisted-living Facilities (Pei Liu)."

**Ok, Chihyung, and Canter, Deborah D.,** Kansas State University Foundation, \$4,227, "Customer Orientation of Service Employees, Rapport & Social Relationships: Influences on Residents' Satisfaction & Well-being."

**Ok, Chihyung,** Kansas State University Foundation, \$4,227, "The Effect of Customer Orientation of Service Employees on Job Satisfaction, Commitment & Organizational Citizenship Behaviors in Continuing Care Retirement Communities (Wen-Shen Yen)."

## **HUMAN NUTRITION**

**Adhikari, Koushik, Alavi, Sajid** (Grain Science and Industry), and **Tang, Xiaoyan** (Grain Science and Industry), Kansas Soybean Commission, \$5,546, "Novel Soy-based Savory Snacks using Extrusion Processing."

**Adhikari, Koushik, Chambers IV, Edgar**, and **Chambers, Delores H.**, US Department of Agriculture, "Understanding International Consumer Needs and Testing Strategies for Food Product Development."

**Chambers IV, Edgar**, and **Chambers, Delores H.**, Frito Lay, Inc., \$284,939, "Consumer Perception of Products Under Extended Use."

**Chambers IV, Edgar**, and **Adhikari, Koushik**, Kansas State University Foundation, \$3,045, "Flavor Differences in Beef Steaks Packaged in Three Different Ways (Sensory Panel Time)."

**Chambers IV, Edgar**, and **Garcia, Jane M.** (School of Family Studies and Human Services), Kansas State University Foundation, "Nutritional Well-being of Frail Elders: Striving for Quality Control in Diet Modifications that Involve Modified Beverage."

**Chambers IV, Edgar**, and **Chambers, Delores H.**, Peryam & Kroll Research Corporation, \$6,200, "Evaluation of Product Characteristics."

**Chambers IV, Edgar**, US Department of Agriculture, \$98,370, "Improving Sorghum Odor Determination Consistency."

**Chambers IV, Edgar, Adhikari, Koushik**, and **Chambers, Delores H.**, US Department of Agriculture, \$140,370, "Understanding International Consumer Needs and Testing Strategies for Food Product Development."

**Chambers, Delores H.**, and **Chambers IV, Edgar**, Frito Lay, Inc., "Consumer Perception of Products Under Extended Use."

**Chambers, Delores H.**, and **Chambers IV, Edgar**, Peryam & Kroll Research Corporation, "Evaluation of Product Characteristics."

**Chambers, Delores H., Adhikari, Koushik**, and **Chambers IV, Edgar**, US Department of Agriculture, "Understanding International Consumer Needs and Testing Strategies for Food Product Development."

**Haub, Mark D.**, American Dietetic Association Foundation, \$5,000, "Dietary Intake of EPA and DHA and Cognitive Performance in Soldiers Deployed to Combat (Jennifer Hanson)."

**Haub, Mark D.**, ConAgra Foods, Inc., \$41,500, "Impact of Sustagrain Barley."

**Haub, Mark D.**, Kansas State University Foundation, \$2,048, "Snack Availability Eating Environment in Care Facilities (Kelcie L. Hubach)."

**Haub, Mark D.**, NutriJoy, Inc., \$50,000, "Sports Beverages on Sweat Electrolytes, Perceived Exertion, and Taste."

**Haub, Mark D.**, and **Shi, Yong Cheng** (Grain Science and Industry), The United Sorghum Checkoff Program Board, \$30,728, "Developing Healthy Foods from Special Sorghums."

**Haub, Mark D.**, VTT Technical Research Centre of Finland, \$14,134, "Glycemic Response of a Beverage Containing a Novel B-Glucan."

**Haub, Mark D.**, World Class Emprise, \$17,200, "Memorandum of Agreement."

**Kidd, Tandalayo**, US Department of Agriculture, \$75,723, "Development of a Randomized Trial Guided by the Process of PRECEDE PROCEED for Prevention of Excessive Weight Gain in Communities of Young Adults."

**Lin, Dingbo**, Kansas State University Foundation, \$700, "Cancer Center Travel Award - ASCB 2009 Annual Meeting."

**Lin, Dingbo**, Kansas State University Foundation, \$20,000, "Wolfberry Supplements in Prevention of Leukemia."

**Medeiros, Denis M.**, US Department of Health and Human Services, \$220,500, "Kansas Bridges to the Future."

**Medeiros, Denis M.**, US Department of Health and Human Services, \$19,336, "Nucleotide-Mediated Foam Cell Formation in Smooth Muscle Cells (Fellowship - Tixieanna Dissmore)."

**Melgarejo, L Tonatiuh**, Kansas State University Foundation, \$4,297, "Graduate Student Summer Salary Support - Lea Dib."

**Wang, Weiqun**, Kansas State University Foundation, \$1,000, "Bioinformatic Statistics for Weight Loss-induced Cancer Prevention Studies."

### **SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES**

**Anderson, Jared R.**, and **Goff, Briana S.**, US Department of Defense, "Family Resiliency Program."

**DeLuccie, Mary L.**, US Department of Agriculture, \$6,908, "Federal Aid in Support of the Child and Adult Care Food Program."

**Garcia, Jane M.**, and **Chambers IV, Edgar** (Human Nutrition), Kansas State University Foundation, \$1,750, "Nutritional Well-being of Frail Elders: Striving for Quality Control in Diet Modifications that Involve Modified Beverage."

**Glasscock, Marlene K.**, US Department of Agriculture, \$1,262,186, "4-H/Air Force Partnership Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$9,886,272, "4-H/Army Youth Development Project - KS."

**Glasscock, Marlene K.**, US Department of Agriculture, \$909,091, "4-H/Navy Youth Development Project."

**Glasscock, Marlene K.**, US Department of Agriculture, \$800,000, "CYFAR 4-H Military Partnership Program."

**Goff, Briana S.**, and **Anderson, Jared R.**, US Department of Defense, \$115,610, "Family Resiliency Program."

**Griffin, Charles L.**, US Department of Health and Human Services, \$526,803, "SRS Strategic Development Training and Curriculum Support."

**O'Conner, Nancy T.**, Kansas Health Solutions, LLC, \$20,133, "Home Based Family Therapy Training."

**O'Conner, Nancy T.**, US Department of Health and Human Services, \$231,968, "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

**Olsen, Charlotte S.**, and **Pederson-Archuleta, Kristy L.**, US Department of Agriculture, \$60,000, "Women Managing the Farm."

**Pederson-Archuleta, Kristy L.**, and **Olsen, Charlotte S.**, US Department of Agriculture, "Women Managing the Farm."

**Sellers, Debra**, US Department of Health and Human Services, \$17,000, "Kansas Optimizing Health Program (KOHP) Integration to KSRE System."

**Sellers, Debra**, US Department of Health and Human Services, \$82,218, "Traumatic Brain Injury Resources."

**Stith, Sandra M.**, US Department of Agriculture, \$789,091, "KSU/Air Force Family/Advocacy Research Analysis and Support Project."

## COLLEGE OF VETERINARY MEDICINE

### ANATOMY AND PHYSIOLOGY

**Blecha, Frank, Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), and **Shi, Jishu**, Kansas Bioscience Authority, "Develop Novel Adjuvants that Promote Cross Protective Immunity Against PRRS Virus."

**Davis, Elizabeth G.**, Merial Limited, \$10,000, "2010 Merial Veterinary Scholars Research Program."

**Davis, Elizabeth G.**, and **Kenney, Michael J.**, US Department of Health and Human Services, "Short-Term Training Students in Health Professional Schools."

**Freeman, Lisa C.**, Kansas State Olathe Innovation Campus, \$10,140, "Pathways to Public Health (K-State Olathe Match)."

**Freeman, Lisa C.**, and **Kenney, Michael J.**, US Department of Health and Human Services, \$214,544, "BRITE Veterinary Student Program."

**Freeman, Lisa C.**, US Department of Health and Human Services, \$16,051, "Post-DVM Fellowship for Dr. Ethel Taylor."

**Kenney, Michael J.**, US Department of Health and Human Services, \$222,000, "Mechanisms Mediating Hypotension to Anthrax Lethal Toxin."

**Kenney, Michael J.**, and **Davis, Elizabeth G.**, US Department of Health and Human Services, \$93,357, "Short-Term Training Students in Health Professional Schools."

**Kenney, Michael J.**, and **Anderson, Gary A.** (Veterinary Diagnostic Laboratory), US Department of State, \$78,904, "Afghanistan and Iraqi Engagement (PR 1005844)."

**Kumari, Meena**, US Department of Health and Human Services, \$264,628, "Ethanol-Induced NMDA R1 mRNA Stabilization."

**Marcus, Daniel C.**, and **Wangemann, A. Philine**, US Department of Health and Human Services, "Cellular Regulation of Cochlear Blood Flow."

**Marcus, Daniel C.**, US Department of Health and Human Services, \$398,600, "Epithelial Function in Health and Disease."

**Musch, Timothy I.**, and **Poole, David C.**, American Heart Association, Midwest Affiliate, "Role of Nitric Oxide Synthase Isoforms in Microcirculatory Dysfunction of Chronic Heart Failure."

**Poole, David C.**, American College of Sports Medicine, \$3,600, "Exercise Training and Muscle Microvascular Oxygenation (Doctoral Student Research Grant for Daniel Hirai)."

**Poole, David C., and Musch, Timothy I.** (Kinesiology), American Heart Association, Midwest Affiliate, \$35,750, "Role of Nitric Oxide Synthase Isoforms in Microcirculatory Dysfunction of Chronic Heart Failure."

**Schultz, Bruce D., Chen, Jianhan, and Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$8,014, "Model Synthetic Channel Assemblies."

**Schultz, Bruce D., Chen, Jianhan** (Biochemistry), and **Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$31,164, "Model Synthetic Channel Assemblies."

**Schultz, Bruce D., and Lillich, James D.** (Clinical Sciences), US Department of Health and Human Services, \$358,065, "Neuroendocrine-modulated Epithelial HCO<sub>3</sub>-transport."

**Shi, Jishu, Blecha, Frank, Hesse, Richard** (Diagnostic Medicine/Pathobiology), and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), Kansas Bioscience Authority, \$250,000, "Develop Novel Adjuvants that Promote Cross Protective Immunity Against PRRS Virus."

**Shi, Jishu**, US Department of Health and Human Services, \$52,000, "Identification of the Defensin Receptor that Regulates IL-1 $\beta$  Releas."

**Shi, Jishu**, US Department of Health and Human Services, \$222,000, "Role of Defensin Receptor Signaling in IL-1 $\beta$  Release."

**Tamura, Masaaki, Troyer, Deryl L., and Weiss, Mark L.**, Kansas Bioscience Authority, \$500,000, "Umbilical Cord Matrix-derived Stem Cell-based Gene Therapy for Pancreatic Cancer."

**Tamura, Masaaki, and Troyer, Deryl L.**, US Department of Health and Human Services, \$51,935, "Targeted Gene Therapy with AT2 Receptor Nanoparticles for Lung Adenocarcinoma."

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**Troyer, Deryl L., Bossmann, Stefan** (Chemistry), and **Chikan, Viktor** (Chemistry), National Science Foundation, \$24,750, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

**Troyer, Deryl L., and Bossmann, Stefan** (Chemistry), National Science Foundation, \$304,826, "Renilla Transfected Stem Cells as Light Source for In-Situ Photodynamic Therapy of Cancer."

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**Wangemann, A. Philine, and Marcus, Daniel C.**, US Department of Health and Human Services, \$303,156, "Cellular Regulation of Cochlear Blood Flow."

**Weiss, Mark L.**, Arthritis Foundation, \$4,000, "Umbilical Cord Stem Cells for Engineering TMJ Osteochondral Constructs."

**Weiss, Mark L., Tamura, Masaaki, and Troyer, Deryl L.**, Kansas Bioscience Authority, "Umbilical Cord Matrix-derived Stem Cell-based Gene Therapy for Pancreatic Cancer."

**Weiss, Mark L.**, Northeast Kansas Parkinson's Association, \$5,000, "Northeast Kansas Parkinson Association Research Fund."

**Weiss, Mark L.**, US Department of Health and Human Services, \$12,627, "Gradient-based Strategy for Osteochondral Regeneration."

**Weiss, Mark L.**, US Department of Health and Human Services, \$19,548, "Solvent-Free Engineering of a Shape-Specific Osteochondral TMJ Condyle."

## **CLINICAL SCIENCES**

**Anderson, David E., Larson, Robert L., Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Reproducibility of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Bergamasco, Luciana, Coetzee, Johann F.**, and **Edwards, Lily N.** (Animal Sciences and Industry), US Department of Agriculture, \$375,000, "Effects of Age, Castration Methods and Analgesia on the Electroencephalogram in Calves: Validation of Acute Responses to Noxious Stimuli."

**Borgarelli, Michele**, Boehringer Ingelheim Vetmedica, Inc., \$25,042, "Acute Term Effects of Pimobendan on Proinflammatory Cytokine, Endothelin, Circulating Natriuretic Peptide, Troponin and Cardiac Perfusion in Dogs with Heart Failure due to Chronic Mitral Valve Insufficiency."

**Carpenter, James W.**, and **Van Der Merwe, Deon** (Diagnostic Medicine/Pathobiology), US Department of the Interior, \$5,000, "Survey of Potentially Toxic Metal Concentrations in Waterfowl, Water, and Soil in the Tri-state Mining District (Kansas, Oklahoma, Missouri)."

**Coetzee, Johann F., Bergamasco, Luciana**, and **Edwards, Lily N.** (Animal Sciences and Industry), US Department of Agriculture, "Effects of Age, Castration Methods and Analgesia on the Electroencephalogram in Calves: Validation of Acute Responses to Noxious Stimuli."

**Davis, Elizabeth G.**, Merial Limited, \$10,000, "2010 Merial Veterinary Scholars Research Program."

**Grauer, Gregory F.**, Vetoquinol USA, \$64,400, "Comparison of Rubenal and Benazepril in the Treatment of Chronic Kidney Disease in Cats."

**Larson, Robert L., Anderson, David E., Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, Biomune Company, "Reproducibility of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Larson, Robert L., Renter, David G.** (Diagnostic Medicine/Pathobiology), and **White, Bradley J.**, IDEXX Laboratories, Inc., "Evaluation of BVDV Cow-Calf Surveillance Strategies."

**Larson, Robert L., Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Bai, Jianfa** (Diagnostic Medicine/Pathobiology), and **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Rapid, In-Field Method for Genomic-Based Identification of BVDV."

**Lillich, James D.**, and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, "Neuroendocrine-modulated Epithelial HCO<sub>3</sub>-transport."

**Rush, Bonnie R.**, Ross University, \$108,216, "Clinical Training for Ross University."

**Sanderson, Michael W., Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **Zurek, Ludek** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Sanderson, Michael W., Bai, Jianfa** (Diagnostic Medicine/Pathobiology), **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), **Renter, David G.** (Diagnostic Medicine/Pathobiology), and **Zurek, Ludek** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Sanderson, Michael W.**, US Department of Agriculture, \$83,363, "NAADSM Scenario Modeling Support for VS-CEAH."

**Thomson, Daniel U.**, Epitopix, LLC, \$720,720, "Efficacy of Vaccination with an Escherichia coli Bacterial Extract for Pre-harvest Control and Shedding of E. coli O157:H7 in Cattle."

**Thomson, Daniel U.**, Epitopix, LLC, \$21,949, "Model Development for Portal Venous Experimental Challenge with Fusobacterium Necrophorum Type A in Calves."

**Thomson, Daniel U.**, Epitopix, LLC, \$13,942, "Pilot Study: Efficacy of Three Dilutions of a Novel Fusobacterium Necrophorum SRP Vaccine against the Number and Severity of Liver Abscess Lesions in Cattle."

**Thomson, Daniel U.**, National Cattlemen's Beef Association, \$10,000, "BQA Stocker Self Assessment Design."

**Thomson, Daniel U.**, US Department of Agriculture, \$18,365, "Effectiveness of Different Caliber of Firearms on Penetration of the Frontal Bone and Amount of Brain Matter Destruction of Feedlot Cattle (Ben Wileman, Grad Student)."

**West, Gary D.**, and **Jaax, Nancy K.** (Office of the Vice President for Research), Paul G. Allen Family Foundation, \$100,000, "Adapting an Ebola Vaccine for Use on Wild Apes: Captive Trials."

**White, Bradley J., Anderson, David E., Larson, Robert L.**, and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Biomune Company, \$64,206, "Reproducibility of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**White, Bradley J., Larson, Robert L.**, and **Renter, David G.** (Diagnostic Medicine/Pathobiology), IDEXX Laboratories, Inc., \$19,848, "Evaluation of BVDV Cow-Calf Surveillance Strategies."

#### **DEAN OF VETERINARY MEDICAL CENTER**

**Anderson, Gary A.**, US Department of Agriculture, "Classical Swine Fever Surveillance, Pseudorabies Surveillance, and a Negative Cohort Study for Foot and Mouth Disease."

**Anderson, Gary A., Bai, Jianfa** (Diagnostic Medicine/Pathobiology), **Larson, Robert L.** (Clinical Sciences), and **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Rapid, In-Field Method for Genomic-Based Identification of BVDV."

**Freeman, Lisa C., and Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$26,174, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training."

**Richardson, Ralph C.,** Kansas State University Foundation, \$116,616, "Professorships/Chairs."

#### **DIAGNOSTIC MEDICINE/PATHOBIOLOGY**

**Bai, Jianfa, Nagaraja, Tiruvoor G., Renter, David G., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek,** US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Bai, Jianfa, Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Larson, Robert L.** (Clinical Sciences), and **Oberst, Richard D.,** US Department of Agriculture, "Rapid, In-Field Method for Genomic-Based Identification of BVDV."

**Chang, Kyeong-Ok, and Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$873,783, "Development of Novel Therapeutic Agents for Norovirus Infections."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Ajinomoto Heartland LLC, "Optimal use of Synthetic Amino Acids in Diets for 15 to 25 lb Pigs."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Ajinomoto Heartland LLC, "Optimal Use of Synthetic Amino Acids in Diets for 15 to 26 lb Pigs: II."

**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), Danisco Animal Nutrition, "Determine the Effects of Dietary Enzymes in Diets Containing High-Fiber Co-Products on the Growth Performance and Nutrient Digestibility of Finishing Pigs."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Elanco Animal Health, "Effects of Pellet Binders on Pellet Quality - Trial 2."

**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), Engrain, LLC, "Evaluation of Novel Enzyme Blend on Nursery Pig Performance II."

**Dritz, Steven S., DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Lonza, Inc., "Evaluation of Dietary L-carnitine in DDGS containing Finishing Pig Diets on Growth, Carcass Characteristics and Loin and Fat Quality."

**Dryden, Michael W.**, Bayer Corporation, \$86,497, "Efficacy of Selmection and Imidacloprid-Moxidectin Combo Spot-ons against C. felis Infesting Cats."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Summit VetPharm LLC, \$95,265, "Efficacy of Vectra 3D and Comfortis against C. felis Infesting Dogs."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Summit VetPharm LLC, \$95,265, "Efficacy of Vectra for Dogs and Puppies T and Confortis against C. felis infesting Dogs."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Summit VetPharm LLC, \$33,285, "Evaluation of the Ovicidal Activity and Effect upon Egg Production of Vectra 3D T and Confortis against C. felis infesting Dogs."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Summit VetPharm LLC, \$81,669, "The Efficacy of Vectra/Vectra 3D and Frontline Plus to Control Flea Populations on Naturally Infested Dogs and Cats and in Private Residences in Tampa, FL 2010."

**Ganta, Roman Reddy R.**, US Department of Health and Human Services, \$15,349, "American Society for Rickettsiology Conference 2009."

**Ganta, Roman Reddy R.**, US Department of Health and Human Services, \$423,267, "Vector and Host Contributions to the Regulation of E. chaffeensis Gene Expression."

**Hesse, Richard, Blecha, Frank** (Anatomy and Physiology), **Rowland, Raymond R. R.**, and **Shi, Jishu** (Anatomy and Physiology), Kansas Bioscience Authority, "Develop Novel Adjuvants that Promote Cross Protective Immunity Against PRRS Virus."

**Hesse, Richard**, and **Rowland, Raymond R. R.**, National Pork Board, "Serological Approach for Diagnosis and Surveillance of Multiple Agents in Serum and Oral Fluid Samples."

**Hesse, Richard, 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., Fung, Daniel Y.C.** (Animal Sciences and Industry), **Kastner, Curtis L.** (Food Science Institute), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$50,526, "Animal Science Food Safety Consortium - Kansas State University."

**Kastner, Justin J., Fung, Daniel Y.C.** (Animal Sciences and Industry), **Kastner, Curtis L.** (Food Science Institute), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$21,592, "Animal Science Food Safety Consortium - Kansas State University."

**Kastner, Justin J.**, US Department of Agriculture, \$21,908, "Food Standards/Codex."

**Kastner, Justin J., Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, \$66,229, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

**Kastner, Justin J.**, US Department of Homeland Security, \$72,824, "Frontier Interdisciplinary eXperiences (FIX) Coordinator."

**Kastner, Justin J.**, and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$390,000, "Interdisciplinary HS-STEM Career Development in Food Defense and Border Security."

**Ma, Wenjun**, and **Richt, Juergen**, US Department of Health and Human Services, "Evaluation of Viral Gene Reassortment in Pigs Infected with the Swine-Like Human H1N1 and Endemic Swine Influenza Viruses."

**Ma, Wenjun, 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)."

**Nagaraja, Tiruvoor G., Oberst, Richard D., Renter, David G., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek**, US Department of Agriculture, \$132,385, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Nagaraja, Tiruvoor G., Bai, Jianfa, Renter, David G., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek**, US Department of Agriculture, \$465,334, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Nagaraja, Tiruvoor G.**, and **Freeman, Lisa C.** (Dean of Veterinary Medical Center), US Department of Health and Human Services, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training."

**Oberst, Richard D., Nagaraja, Tiruvoor G., Renter, David G., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek**, US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Oberst, Richard D., Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Bai, Jianfa**, and **Larson, Robert L.** (Clinical Sciences), US Department of Agriculture, "Rapid, In-Field Method for Genomic-Based Identification of BVDV."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Summit VetPharm LLC, "Efficacy of Vectra 3D and Comfortis against C. felis Infesting Dogs."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Summit VetPharm LLC, "Efficacy of Vectra for Dogs and Puppies T and Confortis against C. felis infesting Dogs."

**Payne, Patricia A.**, and **Dryden, Michael W.**, Summit VetPharm LLC, "Evaluation of the Ovicidal Activity and Effect upon Egg Production of Vectra 3D T and Confortis against C. felis infesting Dogs."

**Payne, Patricia A., and Dryden, Michael W.**, Summit VetPharm LLC, "The Efficacy of Vectra/Vectra 3D and Frontline Plus to Control Flea Populations on Naturally Infested Dogs and Cats and in Private Residences in Tampa, FL 2010."

**Renter, David G., Anderson, David E.** (Clinical Sciences), **Larson, Robert L.** (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), Biomune Company, "Reproducibility of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

**Renter, David G., Larson, Robert L.** (Clinical Sciences), and **White, Bradley J.** (Clinical Sciences), IDEXX Laboratories, Inc., "Evaluation of BVDV Cow-Calf Surveillance Strategies."

**Renter, David G., Nagaraja, Tiruvoor G., Oberst, Richard D., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek**, US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Renter, David G., Bai, Jianfa, Nagaraja, Tiruvoor G., Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Ludek**, US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Richt, Juergen, and Ma, Wenjun**, US Department of Health and Human Services, \$207,361, "Evaluation of Viral Gene Reassortment in Pigs Infected with the Swine-Like Human H1N1 and Endemic Swine Influenza Viruses."

**Richt, Juergen**, US Department of Health and Human Services, \$125,000, "Molecular and Biological Characterization of Pandemic Flu: Role of HA and NA proteins in host tropism, pathogenesis and reassortment."

**Richt, Juergen**, US Department of Health and Human Services, \$430,262, "Pathogenesis, Transmission and Detection of Zoonotic Prion Diseases."

**Richt, Juergen, Hesse, Richard, Ma, Wenjun, Rowland, Raymond R. R., and Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, \$2,000,000, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Rowland, Raymond R. R., Blecha, Frank** (Anatomy and Physiology), **Hesse, Richard**, and **Shi, Jishu** (Anatomy and Physiology), Kansas Bioscience Authority, \$250,000, "Develop Novel Adjuvants that Promote Cross Protective Immunity Against PRRS Virus."

**Rowland, Raymond R. R.**, National Pork Board, \$248,901, "PRRS Host Genetics Consortium: A Proposal to develop a consortium to study the role of host genetics and resistance to PRRSV."

**Rowland, Raymond R. R., and Hesse, Richard**, National Pork Board, \$45,000, "Serological Approach for Diagnosis and Surveillance of Multiple Agents in Serum and Oral Fluid Samples."

**Rowland, Raymond R. R., and Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, \$2,512,393, "Integrated Strategies to Control and Reduce the Impact of PRRS Virus."

**Rowland, Raymond R. R., Hesse, Richard, Ma, Wenjun, Richt, Juergen, and Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Scott, Harvey M.**, US Department of Agriculture, \$28,840, "Novel Pre-Harvest Interventions to Protect Antimicrobials of Critical Importance in Human and Veterinary Medicine."

**Scott, Harvey M.**, US Department of Agriculture, \$2,000,000, "Practical Interventions to Effectively Manage Antibiotic Resistance in Beef and Dairy Cattle Systems: A Fully Integrated Approach."

**Van Der Merwe, Deon, and Carpenter, James W.** (Clinical Sciences), US Department of the Interior, "Survey of Potentially Toxic Metal Concentrations in Waterfowl, Water, and Soil in the Tri-state Mining District (Kansas, Oklahoma, Missouri)."

**Wyatt, Carol R.**, National Pork Board, \$60,686, "Antigen-specific T Cell Responses Associated with PCVAD Pathogenesis."

**Zurek, Ludek, Nagaraja, Tiruvoor G., Oberst, Richard D., Renter, David G., and Sanderson, Michael W.** (Clinical Sciences), US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

**Zurek, Ludek, Bai, Jianfa, Nagaraja, Tiruvoor G., Renter, David G., and Sanderson, Michael W.** (Clinical Sciences), US Department of Agriculture, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

#### **VETERINARY DIAGNOSTIC LABORATORY**

**Anderson, Gary A.**, US Department of Agriculture, \$57,013, "Classical Swine Fever Surveillance, Pseudorabies Surveillance, and a Negative Cohort Study for Foot and Mouth Disease."

**Anderson, Gary A.**, US Department of Agriculture, \$50,000, "NAHLN: KS."

**Anderson, Gary A., Bai, Jianfa** (Diagnostic Medicine/Pathobiology), **Larson, Robert L.** (Clinical Sciences), and **Oberst, Richard D.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, \$26,600, "Rapid, In-Field Method for Genomic-Based Identification of BVDV."

**Anderson, Gary A., and Kenney, Michael J.** (Anatomy and Physiology), US Department of State, \$78,904, "Afghanistan and Iraqi Engagement (PR 1005844)."

**Hanlon, Cathleen A.**, Sanofi-Aventis Deutschland GmbH, \$8,000, "Rabies Immunology Workshop 2010."

**Richt, Juergen, Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (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)."

### **VETERINARY MEDICAL TEACHING HOSPITAL**

**Arck, Shirley T.**, University of Kansas, \$800, "Training of Pharmacy D. Students."

**Fingland, Roger B.**, City of Manhattan, KS, \$16,200, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

**Fingland, Roger B.**, Friends of the Sunset Zoo, \$2,000, "Sunset Zoo Internship Program."

## KANSAS COOPERATIVE EXTENSION SERVICE

### **AGRICULTURE AND NATURAL RESOURCES**

**Kahl, Daniel W., and Graham, Steven M.** (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, "E.A.R.T.H. - Earth Awareness Researchers for Tomorrow's Habitat."

**Kahl, Daniel W., and Harner III, Joseph P.** (Biological and Agricultural Engineering), US Environmental Protection Agency, "Kansas Environmental Leadership Program (KELP) 2010."

**Kahl, Daniel W., and Harner III, Joseph P.** (Biological and Agricultural Engineering), US Environmental Protection Agency, "Kansas Environmental Leadership Program Redesign (FFY 2007)."

**Murphy, James P.,** US Department of Agriculture, \$129,617, "2009 Plan of Work for Regional Coordination of the NCR SARE PDP Program."

**Murphy, James P., and Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Integrated Strategies to Control and Reduce the Impact of PRRS Virus."

**Murphy, James P.,** US Department of Agriculture, \$359,458, "Kansas Agricultural Mediation Service."

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

**Murphy, James P.,** US Department of Agriculture, \$240, "Memorandum of Understanding between Kansas Agricultural Mediation Services and Kansas Natural Resources Conservation Service."

### **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, \$15,529, "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."

**Shroyer, James P., Heer, William F., Roozeboom, Kraig L., and Stamm, Michael J.,** Kansas Wheat Commission, "Improving Wheat Quality and Yield through Crop Rotation."

## **BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**Rogers, Danny H.**, Kansas Water Office, \$45,000, "Technical Assistance to Water Users: Kansas State University Mobile Irrigation Lab."

## **DIRECTOR OF COOPERATIVE EXTENSION**

**Lindquist, Jack W.**, Kansas Agriculture and Rural Leadership, Inc., \$107,126, "Kansas Agriculture and Rural Leadership, Inc.."

**Murphy, James P.**, US Department of Agriculture, \$69, "Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA)."

**Peters, Paula, and Hudson, Karen S.** (Human Nutrition), US Department of Agriculture, "Kansas Food Assistance Nutrition Education Plan."

**Peters, Paula**, US Department of Agriculture, \$316,863, "Military Life Skills Education Program at Ft. Riley, Kansas."

## **4-H YOUTH DEVELOPMENT**

**Fink, Carol J.**, National 4-H Council, \$78,000, "Cargill 4-H Food Science Initiative."

**Fink, Carol J.**, US Department of Agriculture, \$75,000, "Children, Youth and Families at Risk Liaison."

**Fink, Carol J.**, US Department of Agriculture, \$100,000, "Empowering Kansas Youth to Improve Their Physical Health."

## **HUMAN NUTRITION**

**Hudson, Karen S.**, and **Peters, Paula** (Director of Cooperative Extension), US Department of Agriculture, \$3,162,679 (includes \$902,616 from Kansas counties- in-kind), "Kansas Food Assistance Nutrition Education Plan."

## **KANSAS FOREST SERVICE**

**Atchison, Robert L.**, Kansas Department of Health and Environment, \$38,422, "KS WRAPS -- Riparian Forest Management and Coordination Technical Assistance."

**Atchison, Robert L.**, US Environmental Protection Agency, \$3,398, "KS WRAPS -- Riparian Forest Management and Coordination Technical Assistance."

**Biles, Larry E.**, Kansas Department of Wildlife and Parks, \$200,000, "On Professional Riparian Forestry Service."

**Biles, Larry E.**, US Department of Agriculture, \$3,000, "Conservation Reserve Program 2009."

**Biles, Larry E.**, US Department of Agriculture, \$8,961, "Conservation Reserve Program 2010."

**Biles, Larry E.**, US Department of Agriculture, \$2,219,560 (includes \$284,977 from third party in-kind support, and \$39,600 from third-party cooperator support), "Consolidated Payment Grant 2009."

**Biles, Larry E.**, US Department of Agriculture, \$3,193,851 (includes \$1,269,385 from cooperator in-kind support), "Consolidated Payment Grant 2010."

**Biles, Larry E.**, US Department of Agriculture, \$76,781, "Inventory of the Forest Resources of Kansas."

**Biles, Larry E.**, US Department of Agriculture, \$20,000, "Kansas Forest Legacy 2010."

**Biles, Larry E.**, US Department of Agriculture, \$50,000, "Kansas Forest Legacy Program Assessment of Need."

**Biles, Larry E.**, US Department of Agriculture, \$23,534 (includes \$9,357 from Kansas Rural Fire Districts), "NASF State Assessment."

**Biles, Larry E.**, US Department of Agriculture, \$50,000, "NRCS Technical Service MOU 2008."

**Biles, Larry E.**, US Department of the Interior, \$27,390 (includes \$2,490 from fire districts), "Assistance to Rural Firefighters."

#### **NORTHEAST AREA OFFICE**

**Duncan, Stewart R.**, Cotton, Inc., \$7,500, "Nitrogen Requirements of Contemporary Cotton Cultivars."

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

**Duncan, Stewart R.**, **Jardine, Douglas J.** (Plant Pathology), **Shoup, Douglas E.** (Southeast Area Office), and **Todd, Timothy C.** (Plant Pathology), Kansas Soybean Commission, "Kansas Soybean Cyst Nematode Survey."

**Duncan, Stewart R.**, **Jardine, Douglas J.** (Plant Pathology), and **Roozeboom, Kraig L.** (Agronomy), Kansas Soybean Commission, \$2,890, "The Use of Seed and Foliar Fungicides at Two Planting Dates for Soybean Production in Kansas."

**Duncan, Stewart R.**, Multisponsor, \$230, "Crop and Soils Multisponsor Programs."

#### **NORTHWEST AREA OFFICE**

**Aiken, Robert M.**, and **Gillen, Robert L.** (Agricultural Research Center-Hays), The United Sorghum Checkoff Program Board, "Development of Sorghum Germplasm with Enhanced Cold and Drought Tolerance and Higher Grain Yield."

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

**O'Brien, Daniel M., Madl, Ronald L.** (Grain Science and Industry), and **Vadlani, Praveen V.** (Grain Science and Industry), Kansas Soybean Commission, \$7,755, "Nutritional Enhancement of Soybean Carbohydrates and Hulls for Animal Feed using Microbial Cultures."

**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."

**Olson, Brian L., Blanco, Humberto** (Agricultural Research Center-Hays), **Janssen, Keith A.** (Agronomy), and **Presley, DeAnn R.** (Agronomy), Kansas Corn Commission, \$5,867, "Impacts of Corn Stover Removal for Biofuel on Crop Production, Soil and Water Quality."

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

### **SOUTHEAST AREA OFFICE**

**Shoup, Douglas E., and Lingenfelser, Jane E.** (Agronomy), Kansas Soybean Commission, "Evaluation of Common Soybean Varieties in Southeast KS."

**Shoup, Douglas E., Duncan, Stewart R.** (Northeast Area Office), **Jardine, Douglas J.** (Plant Pathology), and **Todd, Timothy C.** (Plant Pathology), Kansas Soybean Commission, "Kansas Soybean Cyst Nematode Survey."

**Shoup, Douglas E., and Peterson, Dallas E.** (Agronomy), Kansas Soybean Commission, \$3,933, "Managing Maretail in No-Till Soybean Systems."

### **SOUTHWEST AREA OFFICE**

**Dumler, Troy, Aiken, Robert M.** (Northwest Research Extension Center), **Blanco, Humberto** (Agricultural Research Center-Hays), **Golden, Bill B.** (Agricultural Economics), **Graham, Steven M.** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Minton, J. Ernest** (Ks Ctr for Ag Rsrce & the Env / Ks Water Rsrce Rsrch Inst), **Prasad, 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, \$5,049, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Martin, Kent L.,** Multisponsor, \$36,620, "Chemical Evaluation."

**Martin, Kent L.,** The United Sorghum Checkoff Program Board, \$3,500, "Grain Sorghum Management for the Great Plains."

**Sloderbeck, Phillip E., Chen, Ming-Shun** (Entomology), **McCornack, Brian P.** (Entomology), and **Whitworth, Robert "Jeff" J.** (Entomology), Kansas Wheat Commission, "Biotype Survey and Integrated Management of the Hessian Fly, Bird Cherry-Oat Aphid, and Greenbugs in Kansas."

## OFFICE OF THE PRESIDENT

### **AUDITORIUM**

**Holmberg, Todd**, National Foundation on the Arts and the Humanities, \$343,058 (includes \$335,250 from Ticket Sales), "2009-10 Performance Series."

**Jackson, Thomas E.**, National Foundation on the Arts and the Humanities, \$4,300, "Diavolo Dance Theatre."

### **BEACH ART MUSEUM**

**Render, Lorne E.**, National Foundation on the Arts and the Humanities, \$7,808, "Beach Museum of Art General Operating Support, 2010."

**Schlageck, Kathrine W.**, Kansas Arts Commission, \$6,400, "Growing Up ARTSmart at the Beach Museum of Art - Robert Lang: Insect Origami."

### **OFFICE OF THE PRESIDENT**

**Reagan, Charles**, and **Mason, April**, US Department of Defense, \$1,600,000, "Kansas State University (KSU) Graduate Degree Program Development and Implementation for CGSC Leadership and Security Studies: Enhance Cooperative Degree Program in History."

**Reagan, Charles**, US Department of Defense, \$500,000, "Kansas State University Graduate Degree Program Development and Implementation for U. S. Army Command and General Staff College Leadership and Security Studies; Enhance Cooperative Degree Program in History."

## OFFICE OF THE PROVOST

### **CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT**

**Kahl, Daniel W., Procter, David E., and Tolar, Mary H.** (School of Leadership Studies), US Department of Agriculture, "Environmental Leadership Interdisciplinary Curriculum to Address Water Resources."

**Procter, David E.**, Kettering Foundation, \$2,500, "Local Court Project #1."

**Procter, David E.**, Kettering Foundation, \$12,000, "Local Court Project #2."

**Procter, David E.**, Morris K. Udall Foundation, \$13,729, "Missouri River Ecosystem Restoration Plan."

**Procter, David E., Kahl, Daniel W., and Tolar, Mary H.** (School of Leadership Studies), US Department of Agriculture, \$114,000, "Environmental Leadership Interdisciplinary Curriculum to Address Water Resources."

**Steichen, Ethel M.**, Heartland Foundation, \$26,156, "Heartland Foundation Evaluation Continuation - Years 4 - 6."

### **DEAN OF CONTINUING EDUCATION**

**Maes, Sue C.**, Bill and Melinda Gates Foundation, \$15,072, "CREST Project."

**Maes, Sue C., Anderson, Dawn L.** (Dean of Human Ecology), **Maier, Dirk E.** (Grain Science and Industry), and **Rezac, Mary E.** (Chemical Engineering), US Department of Agriculture, "Biobased Products and Bioenergy Multi-University Graduate Program."

**Retzlaff, Deanna D., Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$18,923, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

### **DEAN OF GRADUATE SCHOOL**

**Lease, Kevin B.**, National Aeronautics and Space Administration, \$58,152, "Kansas Space Grant Consortium."

### **INTERNATIONAL PROGRAMS**

**Michie, Barry H.**, Republic of Kazakhstan, \$85,353, "Education of Recipients of the Bolashak International Scholarship."

**Michie, Barry H., and Lilja, Nina** (Dean of Agriculture and Director of AES), US Agency for International Development, \$67,128, "Experience America AMG-KSU: Cultural Interfacing for FATA Youth in the US."

**Michie, Barry H.**, US Department of Education, \$88,000, "South Asia Project."

**Wood, Mary**, NCN Institute, \$5,941, "English Training Sponsorship."

### **LIBRARY**

**Goetsch, Lori**, and **Gould, Thomas H.** (School of Journalism and Mass Communications), North Central Regional Planning Commission, \$20,000, "K-State Editorship of the Online Journal of Rural Research and Policy."

**Schenck-Hamlin, Donna C.**, US Department of Homeland Security, \$26,479, "National Center for Food Protection and Defense."

### **OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT**

**Gordon, Myra E.**, **Holmes, JohnElla**, and **Martin, Dawne**, Excelencia, LLC, \$31,714, "Semillas de Excelencia: Graduate Assistant and Student Workers."

**Holmes, JohnElla**, **Gordon, Myra E.**, and **Martin, Dawne**, Excelencia, LLC, "Semillas de Excelencia: Graduate Assistant and Student Workers."

**Martin, Dawne**, **Gordon, Myra E.**, and **Holmes, JohnElla**, Excelencia, LLC, "Semillas de Excelencia: Graduate Assistant and Student Workers."

### **SCHOOL OF LEADERSHIP STUDIES**

**Finnegan, James M.**, and **Tolar, Mary H.**, City of Manhattan, KS, \$20,000, "City of Manhattan Leadership Academy."

**Lindsey, Matthew**, Corporation for National and Community Service, \$130,353 (includes \$130,353 from member support), "AmeriCorps VISTA State."

**Lindsey, Matthew**, Corporation for National and Community Service, \$40,851, "Careers for the Common Good."

**Lindsey, Matthew**, Corporation for National and Community Service, \$54,000, "Careers for the Common Good Recovery."

**Tolar, Mary H.**, and **Finnegan, James M.**, City of Manhattan, KS, "City of Manhattan Leadership Academy."

**Tolar, Mary H.**, and **Bachelor, Lynda L.**, Corporation for National and Community Service, \$2,750 (includes \$250 from in-kind support), "MLK Collegiate Challenge."

**Tolar, Mary H.**, **Kahl, Daniel W.** (Center for Engagement and Community Development), and **Procter, David E.** (Center for Engagement and Community Development), US Department of Agriculture, "Environmental Leadership Interdisciplinary Curriculum to Address Water Resources."

## SALINA COLLEGE OF TECHNOLOGY AND AVIATION

### **SALINA APPLIED AVIATION RESEARCH CENTER**

**Barnhart, Richard K.**, City of Salina, KS, \$200,000, "UAS Mission Planning, Operations and Disaster Training Center."

**Barnhart, Richard K.**, and **Shappee, Eric J.** (Salina Aviation), Herington UAS Flight Facility (HUFF), \$5,110, "K-State at Salina UAS Facilities License Agreement."

**Barnhart, Richard K.**, and **Khan, Saeed M.** (Salina Engineering Technology), US Department of Defense, \$2,760,000, "UAS Mission Planning, Operations, and Disaster Training Center."

### **SALINA ARTS, SCIENCE AND BUSINESS**

**Heublein, John A.**, and **Von Bergen, Donald**, US Department of Education, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

**Von Bergen, Donald**, and **Heublein, John A.**, US Department of Education, \$8,500, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

### **SALINA AVIATION**

**Barnard, Kenneth W.**, and **Karcz, Thomas L.**, National Aeronautics and Space Administration, \$30,690, "Aeroelastic Modeling Effects and Flight Test Demonstration of Resilient Adaptive Flight Controls on a General Aviation Testbed: Dynamic Inverse and Adaptive Critic Methods."

**Barnhart, Richard K.**, and **Smith, Andrew T.**, Heliplane, LLC, "AirTrailer."

**Karcz, Thomas L.**, and **Barnard, Kenneth W.**, National Aeronautics and Space Administration, "Aeroelastic Modeling Effects and Flight Test Demonstration of Resilient Adaptive Flight Controls on a General Aviation Testbed: Dynamic Inverse and Adaptive Critic Methods."

**Shappee, Eric J.**, and **Barnhart, Richard K.** (Salina Applied Aviation Research Center), Herington UAS Flight Facility (HUFF), "K-State at Salina UAS Facilities License Agreement."

**Smith, Andrew T.**, and **Barnhart, Richard K.**, Heliplane, LLC, \$15,000, "AirTrailer."

### **SALINA ENGINEERING TECHNOLOGY**

**Khan, Saeed M.**, and **Barnhart, Richard K.** (Salina Applied Aviation Research Center), US Department of Defense, "UAS Mission Planning, Operations, and Disaster Training Center."

## VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

### **BUDGET OFFICE**

**Bontrager, Cindy**, US Department of Education, \$11,748,086, "Federal Education Stabilization Fund."

### **KSU POLICE DEPARTMENT**

**Stubbings, Donald C.**, Kansas Department of Revenue, \$4,697, "Underage Alcohol Enforcement."

### **VICE PRESIDENT FOR ADMINISTRATION AND FINANCE**

**Brokesh, Lonna D.**, and **Fattaey, Abdullah A.**, US Environmental Protection Agency, "K-State Center for Child Development Urban Stormwater Management."

**Fattaey, Abdullah A.**, and **Brokesh, Lonna D.**, US Environmental Protection Agency, \$583,507, "K-State Center for Child Development Urban Stormwater Management."

## VICE PRESIDENT FOR RESEARCH

### BIOSECURITY RESEARCH INSTITUTE

**Richt, Juergen, Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (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)."

### BIOTECHNOLOGY DESIGN LABORATORY

**Tomich, John M.**, Multisponsor, \$52,037, "Biotechnology Laboratory Support."

### ELECTRONICS DESIGN LABORATORY

**Sobering, Timothy J.**, Multisponsor, \$154,668, "Electronics Design Laboratory Support."

### NATIONAL AGRICULTURAL BIOSECURITY CENTER

**Beardsley, Craig A.**, US Department of Defense, \$105,000, "Kansas National Guard - Afghan Agriculture Development Team Training Program - No. 2."

**Tafanelli, Lee E.**, US Department of Agriculture, \$527,920, "Development and Delivery of a Targeted NALHN Technical Training Support Program."

**Tafanelli, Lee E.**, and **Vanier, Martha A.**, US Department of Defense, "Enabling Technologies for Detecting, Characterizing and Modeling Bioagents in Military Food Rations."

**Vanier, Martha A.**, and **Tafanelli, Lee E.**, US Department of Defense, \$1,460,000, "Enabling Technologies for Detecting, Characterizing and Modeling Bioagents in Military Food Rations."

**Vanier, Martha A.**, **Hesse, Richard** (Diagnostic Medicine/Pathobiology), **Ma, Wenjun** (Diagnostic Medicine/Pathobiology), **Richt, Juergen** (Diagnostic Medicine/Pathobiology), and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

**Vanier, Martha A.**, **Harrington Jr, John A.** (Geography), and **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), US Department of Homeland Security, \$34,030, "Data Collection to Support NBAF Risk Assessment."

**Vanier, Martha A.**, **Harrington Jr, John A.** (Geography), **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), and **Zurek, Ludek** (Entomology), US Department of Homeland Security, \$33,841, "Data Collection to Support NBAF Risk Assessment."

### OFFICE OF THE VICE PRESIDENT FOR RESEARCH

**Guikema, James A.**, National Science Foundation, \$40,500, "2007 National Science Foundation Graduate Research Fellowship Award - Matthew T. Basel."

**Guikema, James A.**, National Science Foundation, \$26,689, "Purchase of Videoconferencing Equipment."

**Guikema, James A.**, **Eckels, Steven J.** (Institute for Environmental Research), **Erickson, Larry E.** (Center for Hazardous Substance Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, "Urban Operations Laboratory."

**Jaax, Nancy K.**, and **West, Gary D.** (Clinical Sciences), Paul G. Allen Family Foundation, "Adapting an Ebola Vaccine for Use on Wild Apes: Captive Trials."

#### **VICE PRESIDENT ELECTRONICS DESIGN LABORATORY**

**Sobering, Timothy J.**, and **Kuhn, William B.** (Electrical and Computer Engineering), Ball Aerospace & Technologies Corporation, \$11,198, "Microtransceiver Development and Support."

## VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

### **EDUCATIONAL AND PERSONAL DEVELOPMENT**

**Barragree, Cari D.**, US Department of Agriculture, \$3,854, "Kansas State University Upward Bound Program - Salina Summer 2009 Food Service Program."

**Barragree, Cari D.**, US Department of Education, \$500,000, "Kansas State University - Salina Campus Upward Bound Project."

**Cortez, Anita R.**, and **Bosco, Pat J.**, Kansas State University Foundation, \$50,000, "Edgerley-Franklin Urban Leadership Scholars Program."

**Greene, Kathleen V.**, Multisponsor, \$874, "Ronald E. McNair Post Baccalaureate Achievement Program - Travel."

**Greene, Kathleen V.**, National Science Foundation, \$20,310, "McNair Scholars Program."

**Greene, Kathleen V.**, US Department of Education, \$252,000, "Kansas State University McNair Scholars Program."

**Greene, Kathleen V.**, US Department of Education, \$309,784, "Student Support Services."

**Greene, Kathleen V.**, US Department of Education, \$222,581, "Student Support Services - KSU Salina."

**Holmes, JohnElla, Lynch, Michael L.**, and **Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

**Lynch, Michael L.**, Kauffman Scholars, Inc., \$93,113, "Campus Residential Institutes for Kauffman Scholars."

**Lynch, Michael L.**, and **Turner, Margaret A.**, US Department of Agriculture, "Kansas State University 2009 Upward Bound Math and Science Summer Food Service Program."

**Lynch, Michael L.**, **Holmes, JohnElla**, and **Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

**Turner, Margaret A.**, and **Lynch, Michael L.**, US Department of Agriculture, \$5,054, "Kansas State University 2009 Upward Bound Math and Science Summer Food Service Program."

**Turner, Margaret A.**, US Department of Agriculture, \$7,012, "Kansas State University 2009 Upward Bound Summer Food Service Program."

**Turner, Margaret A.**, US Department of Education, \$829,090, "Kansas State University Upward Bound Project."

**Turner, Margaret A., Holmes, JohnElla, and Lynch, Michael L.,** US Department of Education, \$248,680, "Upward Bound Math and Science Program II."

**KSU CHILD DEVELOPMENT CENTER, INC.**

**Ring, Debra J.,** Kansas Child Care Training Opportunities, Inc, \$11,722, "Memorandum of Agreement."

**Ring, Debra J.,** US Department of Agriculture, \$74,443, "Child and Adult Care Food Program - Jardine Site."

**UNIVERSITY COUNSELING SERVICES**

**Arck Jr, William,** City of Manhattan, KS, \$37,000, "Youth Oriented Alcohol Abuse Prevention Program."

**Newton, Fred B.,** Sunflower Foundation, \$400 (includes \$400 from Outside Contributor), "Moving and Mentoring."

**VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS**

**Bosco, Pat J.,** Conoco, Inc., \$30,000, "ConocoPhillips SPIRIT Scholars Administration."

**Bosco, Pat J.,** Kansas State University Foundation, \$54,240, "Military Affairs Fund."

**Annual  
Proposal/Award Summary  
07/01/09 - 06/30/10**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<b><u>COLLEGE OF AGRICULTURE</u></b>					
Agricultural Economics	48	\$3,840,774	\$8,589,947	24	\$2,408,959
Agricultural Experiment Station	3	\$394,999	\$665,754	2	\$333,010
Agricultural Research Center-Hays	12	\$577,816	\$987,572	12	\$608,307
Agriculture and Natural Resources	1	\$78,077	\$156,662	0	\$0
Agronomy	87	\$10,207,729	\$32,025,727	90	\$6,779,713
Animal Sciences and Industry	30	\$1,439,671	\$2,387,583	29	\$1,327,458
Communications	5	\$540,572	\$774,893	2	\$76,436
Dean of Agriculture and Director of AES	0	\$0	\$0	2	\$41,518
Entomology	39	\$2,843,199	\$7,134,485	33	\$1,898,520
Food Science Institute	2	\$117,420	\$117,420	3	\$218,472
Grain Science and Industry	53	\$5,601,146	\$7,463,093	35	\$1,582,167
Horticulture, Forestry and Recreation Resources	24	\$3,289,678	\$10,086,733	15	\$514,216
International Agricultural Programs	1	\$388,063	\$388,063	0	\$0
Kansas Industrial Extension Services	0	\$0	\$0	0	\$0
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	13	\$937,801	\$1,142,912	11	\$886,398
Northwest Research Extension Center	4	\$119,287	\$151,787	11	\$393,406
Office of Academic Programs	0	\$0	\$0	3	\$221,702
Plant Pathology	64	\$9,500,241	\$15,851,872	60	\$6,754,886
Southeast Agricultural Research Center	3	\$55,420	\$73,335	3	\$41,305
Southwest Research Extension Center	5	\$255,123	\$378,300	6	\$436,221
<b>Total Agriculture</b>	<b>394</b>	<b>\$40,187,016</b>	<b>\$88,376,138</b>	<b>341</b>	<b>\$24,522,693</b>

**COLLEGE OF ARCHITECTURE, PLANNING & DESIGN**

Architecture	0	\$0	\$0	0	\$0
Dean of Architecture, Planning and Design	0	\$0	\$0	0	\$0
Interior Architecture and Product Design	1	\$5,000	\$5,000	1	\$5,000
Landscape Architecture/Regional & Community Planning	4	\$130,846	\$365,309	3	\$167,343
<b>Total Architecture, Planning and Design</b>	<b>5</b>	<b>\$135,846</b>	<b>\$370,309</b>	<b>4</b>	<b>\$172,343</b>

**COLLEGE OF ARTS AND SCIENCES**

Art	0	\$0	\$0	0	\$0
Biochemistry	22	\$3,671,455	\$9,185,094	16	\$3,018,734
Biology	90	\$14,852,235	\$35,031,639	57	\$8,171,385
Chemistry	65	\$7,665,786	\$20,776,728	19	\$3,340,693
Communication Studies, Theatre and Dance	1	\$123,979	\$665,489	2	\$59,374
Community Health Institute	0	\$0	\$0	0	\$0
Dean of Arts and Sciences	4	\$5,665,364	\$6,159,778	0	\$0
Economics	0	\$0	\$0	0	\$0
English	2	\$7,000	\$7,000	1	\$740
Geography	24	\$1,235,794	\$3,882,852	9	\$165,536
Geology	14	\$1,758,023	\$3,204,071	3	\$288,128
History	3	\$168,757	\$464,069	2	\$65,000
Kinesiology	8	\$1,424,290	\$3,369,258	6	\$317,481
Mathematics	20	\$1,451,584	\$4,345,973	6	\$1,183,781
Modern Languages	0	\$0	\$0	0	\$0

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Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
Music	1	\$15,950	\$15,950	1	\$14,050
Philosophy	0	\$0	\$0	0	\$0
Physics	48	\$8,534,277	\$22,743,666	26	\$5,241,624
Political Science	4	\$482,948	\$1,937,267	2	\$314,246
Psychology	11	\$2,236,063	\$7,606,149	4	\$625,142
School of Journalism and Mass Communications	2	\$231,434	\$496,432	0	\$0
Sociology, Anthropology and Social Work	17	\$552,368	\$1,109,599	9	\$760,237
Statistics	12	\$474,874	\$1,324,973	3	\$51,633
Women Studies	0	\$0	\$0	0	\$0
<b>Total Arts and Sciences</b>	<b>348</b>	<b>\$50,552,180</b>	<b>\$122,325,986</b>	<b>166</b>	<b>\$23,617,786</b>

**COLLEGE OF BUSINESS ADMINISTRATION**

Finance	0	\$0	\$0	0	\$0
Accounting	0	\$0	\$0	0	\$0
Dean of Business Administration	0	\$0	\$0	0	\$0
Management	3	\$237,691	\$785,116	2	\$228,749
Marketing	1	\$178,151	\$915,022	1	\$15,463
<b>Total Business Administration</b>	<b>4</b>	<b>\$415,842</b>	<b>\$1,700,138</b>	<b>3</b>	<b>\$244,212</b>

**COLLEGE OF EDUCATION**

Dean of Education	21	\$2,235,108	\$6,236,291	33	\$6,403,595
Educational Leadership	1	\$168,646	\$356,043	1	\$110,947
Elementary Education	1	\$32,370	\$32,370	1	\$32,370
Secondary Education	1	\$48,798	\$97,914	1	\$30,984
Special Education, Counseling and Student Affairs	3	\$499,894	\$1,901,441	0	\$0
<b>Total Education</b>	<b>27</b>	<b>\$2,984,816</b>	<b>\$8,624,059</b>	<b>36</b>	<b>\$6,577,896</b>

**COLLEGE OF ENGINEERING**

Advanced Manufacturing Institute	5	\$736,063	\$1,473,463	11	\$2,141,383
Architectural Engineering and Construction Science	1	\$9,541	\$20,984	0	\$0
Biological and Agricultural Engineering	49	\$2,990,023	\$7,564,444	33	\$2,923,787
Center for Hazardous Substance Research	5	\$450,498	\$992,008	2	\$1,222,000
Chemical Engineering	32	\$4,558,593	\$11,610,023	16	\$2,851,943
Civil Engineering	34	\$3,887,795	\$5,693,356	19	\$2,850,820
Computing and Information Sciences	24	\$8,447,120	\$13,824,834	20	\$3,328,123
Dean of Engineering	5	\$1,712,795	\$8,326,796	2	\$323,884
Electrical and Computer Engineering	32	\$3,810,373	\$8,939,630	26	\$2,703,700
Engineering Experiment Station	1	\$25,132	\$25,132	3	\$67,079
Industrial and Manufacturing Systems Engineering	19	\$893,697	\$1,869,633	9	\$431,774
Institute for Environmental Research	10	\$870,803	\$1,044,251	10	\$1,368,029
Kansas Industrial Extension Service	16	\$1,147,572	\$2,143,679	14	\$1,283,777
Mechanical and Nuclear Engineering	42	\$7,272,635	\$20,271,033	16	\$1,866,639

**Annual  
Proposal/Award Summary  
07/01/09 - 06/30/10**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
National Gas Machinery Laboratory	2	\$220,009	\$272,629	1	\$96,110
National Institute for Land Management and Training	2	\$1,049,110	\$1,049,110	0	\$0
<b>Total Engineering</b>	<b>279</b>	<b>\$38,081,758</b>	<b>\$85,121,003</b>	<b>182</b>	<b>\$23,459,046</b>

**COLLEGE OF HUMAN ECOLOGY**

Apparel, Textiles, and Interior Design	3	\$178,404	\$236,654	0	\$0
Communication Studies, Theatre, Dance	1	\$73,197	\$146,870	0	\$0
Communications	1	\$58,557	\$117,496	0	\$0
Dean of Human Ecology	6	\$2,055,266	\$2,921,653	6	\$2,757,068
Hospitality Management and Dietetics	5	\$1,229,720	\$2,012,314	4	\$15,204
Human Nutrition	16	\$2,567,978	\$4,011,374	20	\$1,040,636
School of Family Studies and Human Services	17	\$14,614,649	\$15,895,874	14	\$14,709,030
<b>Total Human Ecology</b>	<b>49</b>	<b>\$20,777,771</b>	<b>\$25,342,235</b>	<b>44</b>	<b>\$18,521,938</b>

**COLLEGE OF TECHNOLOGY AND AVIATION**

Academic Services	1	\$550	\$550	0	\$0
Applied Aviation Research Center	2	\$1,383,357	\$2,960,000	3	\$2,965,110
Arts, Science and Business	0	\$0	\$0	1	\$8,500
Aviation	0	\$0	\$0	2	\$45,690
Dean of College of Technology and Aviation	1	\$1,631,430	\$1,631,430	0	\$0
Engineering Technology	1	\$365,892	\$365,892	0	\$0
Fiscal Affairs	0	\$0	\$0	0	\$0
<b>Total Technology and Aviation</b>	<b>5</b>	<b>\$3,381,229</b>	<b>\$4,957,872</b>	<b>6</b>	<b>\$3,019,300</b>

**COLLEGE OF VETERINARY MEDICINE**

Anatomy and Physiology	39	\$6,840,175	\$14,481,834	26	\$3,494,658
Clinical Sciences	35	\$2,128,520	\$3,041,032	15	\$1,640,051
Dean of Veterinary Medical Center	2	\$447,961	\$447,961	2	\$142,790
Diagnostic Medicine/Pathobiology	57	\$9,486,213	\$17,093,910	27	\$10,833,620
Veterinary Diagnostic Laboratory	4	\$237,821	\$237,821	5	\$220,517
Veterinary Medical Teaching Hospital	1	\$16,200	\$16,200	3	\$19,000
<b>Total Veterinary Medical Center</b>	<b>138</b>	<b>\$19,156,890</b>	<b>\$35,318,759</b>	<b>78</b>	<b>\$16,350,636</b>

**COOPERATIVE EXTENSION**

**Cooperative Extension - Agriculture**

Agricultural Economics	0	\$0	\$0	0	\$0
Agriculture and Natural Resources	5	\$824,626	\$854,746	3	\$489,315
Agronomy	1	\$12,571	\$12,571	1	\$15,529
Biological and Agricultural Engineering	0	\$0	\$0	1	\$45,000
Communications	1	\$100,000	\$300,000	0	\$0
Director of Cooperative Extension	1	\$316,763	\$1,007,482	3	\$424,058
Four-H Youth Development	3	\$215,500	\$775,500	3	\$253,000
Kansas Forest Service	12	\$3,828,530	\$4,327,272	13	\$5,914,897

**Annual  
Proposal/Award Summary  
07/01/09 - 06/30/10**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	0	\$0	\$0	0	\$0
Northeast Area Office	2	\$10,390	\$10,390	3	\$10,620
Northeast/Metro Area Office	0	\$0	\$0	0	\$0
Northwest Area Office	4	\$55,843	\$120,377	3	\$18,822
Southeast Area Office	5	\$26,879	\$40,315	1	\$3,933
Southwest Area Office	0	\$0	\$0	3	\$45,169
<b>Subtotal Cooperative Ext - Agriculture</b>	<b>34</b>	<b>\$5,391,101</b>	<b>\$7,448,653</b>	<b>34</b>	<b>\$7,220,342</b>
<b>Cooperative Extension - Human Ecology</b>					
Family and Consumer Sciences	0	\$0	\$0	0	\$0
Human Nutrition	1	\$2,260,063	\$2,260,063	1	\$3,162,679
Nutrition Program	0	\$0	\$0	0	\$0
<b>Subtotal Cooperative Ext - Human Ecology</b>	<b>1</b>	<b>\$2,260,063</b>	<b>\$2,260,063</b>	<b>1</b>	<b>\$3,162,679</b>
<b>Total Cooperative Extension</b>	<b>35</b>	<b>\$7,651,164</b>	<b>\$9,708,716</b>	<b>35</b>	<b>\$10,383,021</b>
<b><u>OFFICE OF THE PRESIDENT</u></b>					
Auditorium Performances	1	\$9,000	\$9,000	2	\$347,358
Beach Art Museum	5	\$122,659	\$122,659	2	\$14,208
Office of the President	0	\$0	\$0	2	\$2,100,000
<b>Total Office of the President</b>	<b>6</b>	<b>\$131,659</b>	<b>\$131,659</b>	<b>6</b>	<b>\$2,461,566</b>
<b><u>OFFICE OF THE PROVOST</u></b>					
Assessment and Program Review	0	\$0	\$0	0	\$0
Center for Engagement and Community Development	8	\$566,013	\$1,391,422	5	\$168,385
Dean of Continuing Education	3	\$92,259	\$183,916	2	\$33,995
Dean of Graduate School	1	\$58,152	\$58,152	1	\$58,152
International Programs	12	\$352,948	\$364,260	4	\$246,421
Kansas Center for Rural Initiatives	0	\$0	\$0	0	\$0
Library	2	\$14,000	\$14,000	2	\$46,479
Office of Diversity and Dual Career Development	0	\$0	\$0	1	\$31,714
Office of the Provost	4	\$334,644	\$1,060,255	0	\$0
Regent's Educational Communications Center	1	\$249,000	\$249,000	0	\$0
School of Leadership Studies	4	\$472,805	\$654,209	5	\$247,954
<b>Total Office of the Provost</b>	<b>35</b>	<b>\$2,139,820</b>	<b>\$3,975,215</b>	<b>20</b>	<b>\$833,100</b>
<b><u>OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE</u></b>					
Budget Office	0	\$0	\$0	1	\$11,748,086
KSU Police Department	2	\$17,375	\$17,375	1	\$4,697
Public Safety	0	\$0	\$0	0	\$0
Vice President for Administration and Finance	1	\$466,799	\$466,799	1	\$583,507
<b>Total Administration and Finance</b>	<b>3</b>	<b>\$484,174</b>	<b>\$484,174</b>	<b>3</b>	<b>\$12,336,290</b>

**Annual  
Proposal/Award Summary  
07/01/09 - 06/30/10**

Department/College	Proposals			Awards	
	Submitted	Period	Total	Received	Total
<b><u>OFFICE OF THE VICE PRESIDENT FOR RESEARCH</u></b>					
Biosecurity Research Institute	2	\$2,284,791	\$10,425,873	0	\$0
Comparative Medicine	1	\$9,994,617	\$9,994,617	0	\$0
K-State Olathe Innovation Campus	1	\$49,809	\$248,528	0	\$0
National Agricultural Biosecurity Center	1	\$527,920	\$527,920	5	\$2,160,791
Office of the Vice President for Research	1	\$7,501,000	\$7,501,000	2	\$67,189
Vice President Biotech Laboratory	0	\$0	\$0	1	\$52,037
Vice President Electronics Design Laboratory	3	\$462,151	\$1,774,721	2	\$165,865
<b>Total Vice President for Research</b>	<b>9</b>	<b>\$20,820,288</b>	<b>\$30,472,659</b>	<b>10</b>	<b>\$2,445,882</b>
<b><u>OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS</u></b>					
Department of Housing				0	\$0
Educational and Personal Development	2	\$527,066	\$2,635,329	13	\$2,542,353
KSU Child Development Center, Inc.	0	\$0	\$0	2	\$86,165
Office of Vice President for Student Life	0	\$0	\$0	2	\$84,240
University Counseling Services	2	\$43,216	\$48,396	2	\$37,400
<b>Total Student Life and Dean of Students</b>	<b>4</b>	<b>\$570,282</b>	<b>\$2,683,725</b>	<b>19</b>	<b>\$2,750,158</b>
 <b>University Totals</b>	 <b>1,341</b>	 <b>\$207,470,736</b>	 <b>\$419,592,647</b>	 <b>953</b>	 <b>\$147,695,867</b>

KANSAS STATE UNIVERSITY  
SUMMARY OF EXTRAMURAL SUPPORT

FY2010

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
<b>AGRICULTURE</b>					
Dean of Agriculture & Director of AES	\$18,323	\$19,275	\$19,546	\$0	41,518
Agricultural Economics	\$2,028,126	\$2,292,428	\$2,529,003	\$1,350,847	2,408,959
Agronomy	\$3,732,199	\$7,031,838	\$3,402,577	\$4,892,905	6,779,713
Animal Sciences & Industry	\$1,707,054	\$2,988,255	\$2,855,594	\$1,882,156	1,327,458
Communications	\$400,239	\$177,500	\$40,313	\$0	76,436
Entomology	\$2,784,940	\$2,848,309	\$2,075,416	\$1,560,774	1,898,520
Food Science Institute	\$183,112	\$204,273	\$13,351	\$112,657	218,472
Grain Science & Industry	\$2,376,352	\$2,058,140	\$1,408,563	\$3,396,240	1,582,167
Hort., Forestry & Recreation Resources	\$387,539	\$633,383	\$1,046,426	\$1,082,763	514,216
KS Ctr for Agri & the Env/KS Water Res. Res. Inst	\$1,056,334	\$1,097,481	\$1,175,284	\$1,162,960	886,398
Office of Academic Programs	\$0	\$0	\$11,938	\$74,134	221,702
Plant Pathology	\$4,214,156	\$5,343,060	\$3,714,770	\$7,607,972	6,754,886
Agricultural Experiment Station	\$700,889	\$127,079	\$260,755	\$123,192	333,010
Northwest Research Extension Center	\$300,496	\$87,403	\$137,915	\$338,258	393,406
Agricultural Research Center-Hays	\$514,335	\$312,825	\$343,317	\$379,088	608,307
Southeast Agricultural Res. Ctr.	\$16,750	\$48,080	\$41,000	\$52,295	41,305
Southwest Research Extension Ctr.	\$178,735	\$246,518	\$248,663	\$459,809	436,221
Extension Director	\$80,475	\$89,660	\$101,574	\$104,209	424,058
Extension Agricultural Economics	\$0	\$0	\$0	\$0	0
Extension Agronomy	\$0	\$0	\$0	\$11,500	15,529
Extension Animal Sciences & Industry	\$0	\$0	\$0	\$0	0
Extension Biological & Agricultural Engineering	\$0	\$0	\$0	\$0	45,000
Extension Communications	\$0	\$0	\$0	\$0	0
Extension Community Health Institute	\$0	\$0	\$0	\$0	0
Extension Entomology	\$0	\$0	\$0	\$0	0
Extension Human Nutrition	\$0	\$0	\$0	\$0	0
Extension Four-H Youth Development	\$167,560	\$138,000	\$135,300	\$77,280	253,000
Extension Grain Science and Industry	\$0	\$0	\$0	\$0	0
Extension Hort., Forestry & Rec. Res.	\$0	\$0	\$0	\$0	0
Extension KS Ctr. for Agriculture & the Environ.	\$0	\$0	\$0	\$0	0
Extension Kansas Forest Service	\$4,939,311	\$2,706,399	\$455,528	\$3,391,477	5,914,897
Extension Kansas Water Resource Res. Inst.	\$0	\$0	\$13,100	\$15,000	0
Extension Northeast Area Office	\$29,000	\$4,000	\$5,500	\$5,330	10,620
Extension Northwest Area Office	\$47,515	\$13,390	\$6,700	\$39,394	18,822
Extension Plant Pathology	\$0	\$0	\$0	\$0	0
Extension Agriculture and Natural Resources	\$749,563	\$516,425	\$733,769	\$690,210	489,315
Extension South Central Area Office	\$0	\$0	\$0	\$0	0
Extension Southeast Area Office	\$18,480	\$0	\$0	\$900	3,933
Extension Southwest Area Office	\$60,675	\$44,250	\$0	\$77,388	45,169
College Totals	\$26,692,155	\$29,027,971	\$20,775,900	\$28,888,737	31,743,036
<b>ARCHITECTURE, PLANNING AND DESIGN</b>					
Dean of Architecture, Planning & Design	\$0	\$223,078	\$0	\$0	0
Architecture	\$0	\$50,000	\$0	\$0	0
Interior Architecture and Product Design	\$0	\$0	\$0	\$0	5,000
Landscape Arch/Regional & Comm Plan	\$183,520	\$13,393	\$0	\$0	167,343
College Totals	\$183,520	\$286,471	\$0	\$0	172,343
<b>ARTS AND SCIENCES</b>					
Dean of Arts & Sciences	\$1,200,596	\$1,531,556	\$976,305	\$1,668,091	0
Biochemistry	\$2,764,069	\$2,643,318	\$2,347,721	\$1,158,896	3,018,734
Biology	\$14,683,975	\$7,252,836	\$10,827,536	\$7,271,896	8,171,385
Chemistry	\$2,003,481	\$2,599,183	\$1,793,346	\$2,498,285	3,340,693
Communication Studies, Theatre & Dance	\$0	\$0	\$0	\$10,962	59,374
Community Health Institute	\$32,638	\$194,423	\$545,503	\$24,118	0
Economics	\$98,301	\$0	\$50,961	\$85,000	0
English	\$0	\$0	\$3,300	\$0	740
Geography	\$456,933	\$316,017	\$296,582	\$263,927	165,536
Geology	\$262,132	\$38,500	\$44,250	\$187,153	288,128
History	\$395,000	\$1,147,088	\$45,000	\$84,987	65,000
Kinesiology	\$9,931	\$26,477	\$178,355	\$132,002	317,481
Mathematics	\$453,567	\$320,802	\$225,140	\$278,372	1,183,781
Music	\$28,113	\$28,907	\$16,326	\$15,920	14,050

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Philosophy	\$0	\$0	\$34,000	\$0	0
Physics	\$6,381,189	\$7,603,567	\$6,521,168	\$7,020,697	5,241,624
Political Science	\$170,832	\$0	\$85,320	\$0	314,246
Psychology	\$490,001	\$341,712	\$428,399	\$196,473	625,142
School of Journalism & Mass Communications	\$9,520	\$128,516	\$656,180	\$38,873	0
Sociology, Anthropology, & Social Work	\$228,491	\$250,151	\$394,420	\$647,465	760,237
Speech Communication, Theatre and Dance	\$5,000	\$0	\$0	\$0	0
Statistics	\$0	\$0	\$31,438	\$0	51,633
College Totals	<u>\$29,673,767</u>	<u>\$24,423,053</u>	<u>\$25,501,249</u>	<u>\$21,583,116</u>	<u>23,617,786</u>

#### **BUSINESS ADMINISTRATION**

Dean of Business Administration	\$276,400	\$114,516	\$0	\$0	0
Accounting	\$75,000	\$6,723	\$0	\$0	0
Marketing	\$0	\$0	\$0	\$0	15,463
Management	<u>\$13,050</u>	<u>\$329,500</u>	<u>\$6,750</u>	<u>\$26,213</u>	<u>228,749</u>
College Totals	<u>\$364,450</u>	<u>\$450,739</u>	<u>\$6,750</u>	<u>\$26,213</u>	<u>244,212</u>

#### **EDUCATION**

Dean of Education	\$6,561,644	\$7,484,140	\$6,394,039	\$5,340,335	6,403,595
Educational Leadership	\$20,786	\$154,339	\$21,823	\$198,056	110,947
Elementary Education	\$0	\$0	\$5,000	\$31,870	32,370
Secondary Education	\$156,026	\$70,604	\$70,604	\$0	30,984
Special Education, Counseling and Student Affairs	<u>0</u>	<u>0</u>	<u>\$3,500</u>	<u>\$0</u>	<u>0</u>
College Totals	<u>\$6,738,456</u>	<u>\$7,709,083</u>	<u>\$6,494,966</u>	<u>\$5,570,261</u>	<u>6,577,896</u>

#### **ENGINEERING**

Dean of Engineering	\$934,076	\$1,689,540	\$11,424	\$16,599	323,884
Advanced Manufacturing Institute	\$3,698,631	\$2,089,995	\$1,794,855	\$1,681,912	2,141,383
Architectural Engg & Construction Sci	\$0	\$0	\$0	\$0	0
Biological & Agricultural Engineering	\$1,317,913	\$3,395,681	\$2,186,599	\$2,846,196	2,923,787
Center for Hazardous Substance Research	\$394,336	\$420,419	\$965,107	\$885,820	1,222,000
Chemical Engineering	\$290,588	\$1,248,991	\$1,247,069	\$2,149,271	2,851,943
Civil Engineering	\$1,624,687	\$1,825,080	\$1,519,056	\$2,642,966	2,850,820
Computing & Information Sciences	\$1,317,502	\$1,428,208	\$1,870,154	\$961,723	3,328,123
Electrical & Computer Engineering	\$1,698,105	\$839,242	\$908,069	\$994,953	2,703,700
Engineering Experiment Station	\$2,000	\$2,000	\$12,000	\$123,404	67,079
Institute for Environmental Research	\$1,102,072	\$1,816,516	\$1,384,242	\$988,891	1,368,029
Extension Engineering	\$0	\$0	\$0	\$0	0
Industrial & Manufacturing Sys Engg	\$556,229	\$480,353	\$431,706	\$873,950	431,774
Kansas Industrial Extension Service	\$1,509,611	\$820,665	\$924,189	\$4,434,261	1,283,777
Mechanical and Nuclear Engineering	\$3,463,464	\$3,155,054	\$2,787,676	\$3,378,903	1,866,639
National Gas Machinery Laboratory	\$992,248	\$112,400	\$467,783	\$208,012	96,110
Nat'l Institute for Land Mgmt & Training	<u>\$320,051</u>	<u>\$394,300</u>	<u>\$27,000</u>	<u>\$533,708</u>	<u>0</u>
College Totals	<u>\$19,221,512</u>	<u>\$19,718,444</u>	<u>\$16,536,928</u>	<u>\$22,720,569</u>	<u>23,459,046</u>

#### **HUMAN ECOLOGY**

Dean of Human Ecology	\$126,841	\$970,818	\$318,516	\$355,627	2,757,068
Apparel, Textiles & Interior Design	\$287,835	\$0	\$6,119	\$40,303	0
Human Nutrition	\$1,761,112	\$1,003,998	\$1,635,539	\$535,505	1,040,636
Hospitality Mgmt & Dietetics	\$6,665	\$331,981	\$3,500	\$218,058	15,204
School of Family Studies & Human Services	\$6,790,615	\$3,050,854	\$17,840,655	\$16,866,207	14,709,030
Extension Apparel, Textiles & Interior Design	\$0	\$0	\$0	\$0	0
Extension Family & Consumer Sciences	\$3,175,681	\$0	\$3,343,958	\$3,129,135	0
Extension Human Nutrition	\$0	\$0	\$0	\$0	3,162,679
Extension Nutrition Program	\$0	\$0	\$61,035	\$32,078	0
Ext. Family Studies & Human Services	<u>\$0</u>	<u>\$3,352,998</u>	<u>\$0</u>	<u>\$0</u>	<u>0</u>
College Totals	<u>\$12,148,749</u>	<u>\$8,710,649</u>	<u>\$23,209,322</u>	<u>\$21,176,914</u>	<u>21,684,617</u>

#### **TECHNOLOGY AND AVIATION**

Dean, College of Technology	\$0	\$24,000	\$0	\$0	0
<b>Academic Services</b>	\$0	\$0	\$0	\$580	0
Salina Applied Aviation Research Center	\$0	\$0	\$50,000	\$496,321	2,965,110
<b>Salina Arts, Science and Business</b>	\$0	\$0	\$0	\$0	8,500
Salina Aviation	\$0	\$0	\$315,900	\$0	45,690
Engineering Technology	<u>\$10,190</u>	<u>\$500,000</u>	<u>\$8,195</u>	<u>\$0</u>	<u>0</u>
College Totals	<u>\$10,190</u>	<u>\$524,000</u>	<u>\$374,095</u>	<u>\$496,901</u>	<u>3,019,300</u>

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
<b>VETERINARY MEDICINE</b>					
Dean of Veterinary Medicine	\$23,200	\$94,539	\$2,636,770	\$205,880	142,790
Anatomy & Physiology	\$6,286,333	\$2,708,071	\$5,287,077	\$3,322,473	3,494,658
Clinical Sciences	\$1,385,468	\$1,921,910	\$1,452,056	\$1,225,367	1,640,051
Diagnostic Medicine/Pathobiology	\$2,001,535	\$1,799,526	\$3,358,103	\$8,778,701	10,833,620
Veterinary Diagnostic Laboratory	\$0	\$0	\$0	\$65,527	220,517
Veterinary Medical Teaching Hospital	\$29,339	\$20,700	\$14,000	\$19,900	19,000
College Totals	<u>\$9,725,875</u>	<u>\$6,544,746</u>	<u>\$12,748,007</u>	<u>\$13,617,848</u>	<u>16,350,636</u>
<b>PRESIDENT</b>					
Beach Art Museum	\$16,217	\$23,014	\$24,088	\$24,997	14,208
McCain Auditorium	\$113,017	\$18,014	\$11,088	\$481,045	347,358
Office of the President	\$0	\$0	\$2,000,000	\$0	2,100,000
Totals	<u>\$129,234</u>	<u>\$41,028</u>	<u>\$2,035,176</u>	<u>\$506,042</u>	<u>2,461,566</u>
<b>PROVOST</b>					
Office of the Provost	\$709,678	\$690,341	\$701,632	\$0	0
Assessment & Program Review	\$0	\$0	\$0	\$88,604	0
Center for Engagement, Community Development	\$0	\$61,118	\$126,223	\$168,935	168,385
Dean of Continuing Education	\$0	\$0	\$0	\$0	33,995
Dean of the Graduate School	\$0	\$0	\$0	\$42,000	58,152
International Programs	\$243,520	\$4,324,721	\$39,873	\$250,978	246,421
Kansas Center for Rural Initiatives	\$112,760	\$0	\$0	\$0	0
Library	\$12,255	\$298,000	\$35,000	\$10,500	46,479
Office of Diversity and Dual Career Dev.	\$0	\$0	\$0	\$0	31,714
Planning and Analysis	\$0	\$0	\$0	\$0	0
Regents Educational Communications Ctr.	\$0	\$0	\$0	\$0	0
School of Leadership Studies	\$0	\$0	\$0	\$92,645	247,954
Totals	<u>\$1,078,213</u>	<u>\$5,374,180</u>	<u>\$902,728</u>	<u>\$653,662</u>	<u>833,100</u>
<b>V.P. ADMINISTRATION AND FINANCE</b>					
Vice President for Administration and Finance	\$0	\$0	\$0	\$0	583,507
Budget Office	\$0	\$0	\$0	\$0	11,748,086
KSU Police Department	\$49,866	\$0	\$1,782	\$8,497	4,697
Physical Facilities	\$0	\$0	\$0	\$0	0
Totals	<u>\$49,866</u>	<u>\$0</u>	<u>\$1,782</u>	<u>\$8,497</u>	<u>12,336,290</u>
<b>V.P. INSTITUTIONAL ADVANCEMENT</b>					
Department of Housing	\$204,840	\$125,522	\$125,522	\$0	0
Educational & Personal Development	\$1,158,357	\$1,624,227	\$2,331,199	\$0	0
KSU Child Development Center	\$0	\$0	\$281,521	\$0	0
Office of Diversity & Dual Career Dev.	\$0	\$250,000	\$0	\$0	0
University Counseling Services	\$7,465	\$28,400	\$152,933	\$0	0
Vice President for Institutional Advancement	\$62,299	\$0	\$221,253	\$0	0
Totals	<u>\$1,432,961</u>	<u>\$2,028,149</u>	<u>\$3,112,428</u>	<u>\$0</u>	<u>0</u>
<b>V. P. ACADEMIC SERVICES &amp; TECHNOLOGY</b>					
Vice President for Academic Serv. & Tech.	\$0	\$0	\$0	\$0	0
Dean of Continuing Education	\$17,117	\$0	\$26,702	\$0	0
Regents Educational Communications Ctr.	\$34,825	\$12,900	\$0	\$0	0
Regents Telenet	\$0	\$0	\$25,214	\$0	0
Totals	<u>\$51,942</u>	<u>\$12,900</u>	<u>\$51,916</u>	<u>\$0</u>	<u>0</u>
<b>VICE PRESIDENT FOR RESEARCH</b>					
Vice President for Research	\$17,706	\$471,670	\$1,799,737	\$1,647,610	67,189
Vice President for Res. & Dean Grad of Sch.	\$44,594	\$6,200	\$40,500	\$0	0
Biosecurity Research Institute	\$0	\$0	\$0	\$1,000	0
National Agricultural Biosecurity Center	\$550,000	\$8,509,263	\$4,065,000	\$14,652,588	2,160,791
Biotechnology Laboratory	\$54,426	\$53,559	\$82,618	\$70,948	52,037
Electronics Design Lab	\$149,435	\$204,611	\$218,212	\$199,139	165,865
Totals	<u>\$816,161</u>	<u>\$9,245,303</u>	<u>\$6,206,066</u>	<u>\$16,571,285</u>	<u>2,445,882</u>

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
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<b>V.P. FOR STUDENT LIFE AND DEAN OF STUDENTS</b>					
Office of Vice President for Student Life	\$0	\$0	\$0	\$0	84,240
Department of Housing	\$0	\$0	\$0	\$200,522	0
Educational & Personal Development	\$0	\$0	\$0	\$1,123,191	2,542,353
KSU Child Development Center	\$0	\$0	\$0	\$372,118	86,165
Office of Diversity & Dual Career Dev.	\$0	\$0	\$0	\$34,238	0
University Counseling Services	\$0	\$0	\$0	\$100,463	37,400
Totals	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$1,830,531</u>	<u>2,750,158</u>
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<b>UNIVERSITY TOTALS</b>	<b>\$108,317,049</b>	<b>\$114,096,716</b>	<b>\$117,957,312</b>	<b>\$133,650,574</b>	<b>147,695,867</b>

# FACULTY DEVELOPMENT AWARDS

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## Fall 2009

**Asano, Katsura**, Biology, \$1,000; Present *"The Ribosome and Translation Factor Functions"* at the Biodiversity Sciences International Symposium held in Japan

**Belanger, Blake M**, Landscape Architecture/Regional and Community Planning, \$1,500; Present *"Habits of Thought: Approaching Landscape Architectural Practice in a Complex Nonlinear World"* and *"Visualizing Complexity: Nonlinear Relations and Photo Montage"* at the Council of Educators in Landscape Architecture conference held in the Netherlands

**Canfield, Jessica**, Landscape Architecture/Regional and Community Planning, \$1,500; Present *"Down to the Last Drop - Rainwater Harvesting in India"* at the Council of Educators in Landscape Architecture Conference held in the Netherlands

**Copple, Mary T**, Modern Languages, \$500; Present *"Following the path: how temporal reference reflects semantic extension"* at the Current Evolutions of Romance Tenses Workshop held in the United Kingdom

**Dissanayake, Sunanda**, Civil Engineering, \$1,500; Present *"Effects of Longitudinal Joints on Vehicle Positioning"* and *"Geometric Design and Other Characteristics Affecting Operating Speeds on Gravel Roads"* at the International Symposium on Highway Geometric Design held in Spain

**Dow, Douglas**, Art, \$2,000; Present *"Florentine Confraternal Decorative Programs in the Age of Reform: Apostolic Imagery at the Oratories of San Giovanni Battista detta dello Scalzo, Santissima Annunziata, and Gesu Pellegrino"* at the Renaissance Society of America Conference held in Italy

**Hamilton, James R**, Philosophy, \$1,000; Present *"Narrative, Imagination, Fiction"* at the Fictionality, Possibility, Reality Colloquium held in the Czech Republic

**Janda, Swinder**, Marketing, \$2,000; Present *"What Are Students Looking for in terms of Study Abroad? Some Preliminary Results"* at the European Marketing Academy's Conference held in Denmark

**Kingery-Page, Mary C**, Landscape Architecture/Regional and Community Planning, \$1,500; Present *"Landscape and Contemporary Art"* at the Council of Educators in Landscape Architecture conference held in the Netherlands

**Klein, Melanie F**, Landscape Architecture/Regional and Community Planning, \$1,500; Present *"Recovering with Green Infrastructure: Greensburg, Kansas as Global Example"* at the Council of Educators in Landscape Architecture conference held in the Netherlands

**Lara, Amy**, Philosophy, \$1,000; Present *"O'Neill on Autonomy, Trust, and Communication Ethics"* at the Eleventh International Kant Congress held in Italy

## FACULTY DEVELOPMENT AWARDS

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**Martinez-Ortiz, Maria T**, *Modern Languages*, \$1,500; Present “*Magic and the Supernatural*” at the First Global Conference held in Austria

**Mathews, Alexander P**, *Civil Engineering*, \$500; Present “*Copenhagen Protocol: Problems and Possibilities*” at the Oxford Round Table held in London

**Matlock, Wendy A**, *English*, \$1,500; Present “*The Elusive Carpenter in The Debate of the Carpenter’s Tools: Family and Labor in a Craftsman’s Household*” at the Annual Gender and Medieval Studies Conference held in England

**Parker, Craig B**, *Music*, \$2,500; “*Igor Stravinsky in Los Angeles*” and “*A History of the Los Angeles Music Festival*” research at UCLA and USC Libraries

**Pentz, Julie**, *Communication Studies, Theatre, and Dance*, \$1,000; Participate in research and exploration of traditional West African dance and music in Africa

**Ramm, Alexander G**, *Mathematics*, \$1,200; Present “*Chaotic Modeling and Simulation*” at the Third International Conference held in Greece

**Rasheed, Hayder A**, *Civil Engineering*, \$1,500; Organize *Progress in Structural Stability and Dynamics symposium* in conjunction with the 6th International Conference on Advances in Steel Structures held in Hong Kong

**Rayat, Sundeep**, *Chemistry*, \$1,000; Present “*Intermediates of tetrazolethione photochemistry: Biradical or Carbene?*” at the Inter-American Photochemical Society meeting

**Riding, Kyle**, *Civil Engineering*, \$1,500; Present “*Reinforced Concrete Service Life Model*” at the Concrete Modeling Symposium held in Switzerland

**Sachs, David H**, *Architecture*, \$500; Present “*From Shanghai to Rome: People in Public Space*” at the Crossroads in Cultural Studies Conference held in Hong Kong

**Sauter, Silvia E**, *Modern Languages*, \$440; *Interview Rural Farming Women Concerning their Ecologically Sustainable Practices* in Peru, Bolivia, Chile, and Ecuador

**Steffensmeier, Timothy R**, *Communication Studies, Theatre, and Dance*, \$1,000; Present “*Deliberation and Narrative: A Discourse Quality Analysis of Public Forums*” at the Argumentation of the International Society for the Study of Argumentation held in Amsterdam

**Talab, Rosemary S**, *Secondary Education*, \$1,200; Present “*Constructivist teaching in virtual reality: Lessons learned from a case study of Second Life*” at the Third World Universities Forum held in Switzerland

## FACULTY DEVELOPMENT AWARDS

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Spring 2009

**Ben-Arieh, David H**, Industrial and Manufacturing Systems Engineering, \$500; Present “*DEA analysis of Kansas clinics with sparse data*” and “*Modeling the progression of sepsis in the human body using agent based modeling*” at the Industrial Engineering Research Conference held in Mexico

**Berry, Vikas**, Chemical Engineering, \$2,000; Present “*Chemical and Mechanical Manipulation of Graphene for Biosensors and Quantum Devices*” at the Recent Advances in Graphene and Related Materials conference held in Singapore

**Betz, Emma**, Modern Languages, \$2,200; Present “*Reported speech in different varieties of German: Marking sequential boundaries through syntactic pivot constructions*” as part of the panel “*Pivot Constructions in Talk-in-Interaction*” and “*Doing relationship work in the face of a problematic action: First names as address terms in English and German*”) at the International Conference on Conversation Analysis held in Germany

**Clem, Rollie J**, Biology, \$1,200; Present “*How directly manipulating the apoptosis pathway in mosquitoes affects the ability of an arbovirus called Sindbis virus to replicate in the mosquito*” at the Society for Invertebrate Pathology meeting held in Turkey

**Cochran, Mary L**, Music, \$1,500; Present “*Overcoming Performance Anxiety*” at the International British Flute Society's Convention held in England

**Datta, Saugata**, Geology, \$500; Present “*Arsenic Research*” at the AS-2010 - 3rd International Congress on Arsenic in the Environment held in Taiwan

**Dayton, Timothy A**, English, \$600; Present “*The Bigness of Cannon: Modernism, Canon Revision, and the First World War*” at the VII Historical Materialism conference held in London

**Esmaily, Asadollah**, Civil Engineering, \$2,000; Present “*A comparative study on bridge-pier strength assessment methods considering influential factors currently absent in professional practice*” at the International Symposium on Life-Cycle Performance of Bridges and Structures held in China also visit Hunan University Structural Laboratory

**Hoag, Linda A**, School of Family Studies and Human Services, \$1,000; Present “*Integrating Pragmatic Theory and Empirical Evidence into Utterance-Based System Design*” at the International Society for Augmentative and Alternative Communication conference held in Spain

**Hossain, Mustaque A**, Civil Engineering, \$1,000; Present “*Noise Reducing Porous Asphalt Pavement*”, “*Evaluation of Small Top Size Superpave Mix for Ultra Thin Overlays*”, “*Accelerated Superpave Mix Testing Models Using Hamburg Wheel-Tracking Device*” and “*Composite Pay Index for Superpave Pavements in Kansas*” at the XI International Conference on Asphalt Pavements held in Japan

## FACULTY DEVELOPMENT AWARDS

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**Hunt, Daniel W**, Art, \$1,000; Co-Chair the VI International Conference on Cast Iron Art held in Wales

**Jumpponen, Ari M**, Biology, \$1,100; Present *"Living on the edges: development of microbial communities and their functional attributes during early primary succession"* at the 9th International Mycological Congress held in the United Kingdom

**Kanost, Laura M**, Modern Languages, \$1,200; Present *"Service Learning in a Conversation Course in Manhattan, Kansas: Rationale, Methods, Reactions, and Challenges"* at the American Association of Teachers of Spanish and Portuguese Conference held in Mexico

**Martinez-Ortiz, Maria T**, Modern Languages, \$1,500; Present *"The Mexican Screenplay and Women Writers: A Cultural Analysis"* at the Screenwriting - History, Theory, and Practice Conference held in Denmark

**Matlock, Wendy A**, English, \$1,500; Present *"Art and Order in Lydgate's The Debate of the Horse, the Goose, and the Sheep"* at the XVII Biennial Congress of the New Chaucer Society held in Italy

**McCrea, Heather L**, History, \$2,000; Present *"Reunion/Conference of Mexican, U.S. and Canadian Historians of Mexico"* at the XIII Reunion of Historians of Mexico held in Mexico

**Muturi, Nancy W**, School of Journalism and Mass Communications, \$2,000; Present *"Faith-Based Approach to Health and Behavior Change Communication: Potential and Challenges for Rural Communities in Kenya"* and *"Community-Based Participatory Approach to Health Literacy and HIV/AIDS Prevention: Evaluating the Service Learning Component"* at the International Association for Media and Communications Research held in Portugal

**Mwangi, Sam**, School of Journalism and Mass Communications, \$2,000; Present *"Communication Technologies and Citizen Engagement: A Case Study of the Innovation Incubator Project"* and *"Media and Citizen Engagement Projects: A Global Overview"* at the International Association of Media and Communication Research held in Portugal

**Park, Yoonseong**, Entomology, \$1,000; Present *"Novel Insecticidal Targets; Neuropeptidergic System in Insect"* at the International Congress of Pesticide Chemistry held in Australia

**Potts, Donna L**, English, \$2,000; Present *"Nuala Ni Dhomhnaill's 'Great Mother' and Ecofeminism"* at the Contemporary Irish Poetry and Environmentalism, XIII Regional and Nation Literature Association conference held in Japan

**Shapkina, Nadezda**, Sociology, Anthropology, and Social Work, \$3,000; Present *"Women Helping Women: Maternalism and Power in Anti-trafficking NGO Interventions"* and *"Students on the Move for Success: Rural-Urban Educational Migration as a Strategy for Upward Mobility in Provincial Russia"* at the XVII International Sociological Association World Congress of Sociology held in Sweden

## FACULTY DEVELOPMENT AWARDS

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**Smith, C. Michael**, Entomology, \$500; Present “*Wheat Gene Expression is Differentially Induced by a Virulent Russian Wheat Aphid Biotype*” at the Southwestern Branch Meeting, Entomological Society of America held in Mexico

**Spencer, Joel Q.**, Geology, \$1,200; Present “*Luminescence Studies of Age and Thermometric Properties in an Active Earthquake Zone*” and “*Timing of Latest Pleistocene to Early Holocene Regressive Phase of Lake Bonnevillie in the Sevier Subbasin*” at the VII New World Luminescence Dating Workshop held in Canada

**Taylor, Kay A.**, Secondary Education, \$500; Present “*Border Transmission and Reproduction Déjà Vu: Ukrainian External Independent Knowledge Testing Reflections in the Mirror of U.S. Standardized Testing*” at the World Congress of Comparative Education Societies held in Turkey

**Underwood, Amy**, Music, \$2,000; Present “*Vocal Master Class*” at Grafenwoehr Army Base and “*Vocal Recital*” in Vilsek followed by language and music cultural historical experience in Germany, Prague and Vienna

**Volok, Dan**, Mathematics, \$1,500; Present “*Reproducing kernel spaces of functions with values in a Banach space*” at the International Symposium on Mathematical Theory of Networks and Systems held in Hungary and the International Workshop on Operator Theory and Its Application held in Germany

**Wang, Haiyan**, Statistics, \$2,500; Present “*Distribution-free Tests to Detect General Dependence Between a Response Variable and Covariates in the Presence of Possibly a Large Number of Heteroscedastic Treatment Effects*” at International Conference on Statistical Analysis of Complex Data

**Wisely, Samantha**, Biology, \$950; Present “*Deforestation and Cattle Ranching Lead to the Expansion of the Reservoir Host to Trypanosomal Disease*” at the International Conference on EcoHealth held in the United Kingdom

**Wysin, Gary M.**, Physics, \$500; Present “*Effective potential of a vortex in cylindrical magnetic dots*” at the Dynamics of Magnetic Materials conference held in Ontario

**Yuan, Wenqiao**, Biological and Agricultural Engineering, \$2,000; Present “*Algae Attachment Techniques and Theories*” and “*Bio-oils from Biomass Hydrothermal Processing*” at the International Conference on Biomass and Energy Technologies held in China

# UNIVERSITY SMALL RESEARCH GRANTS

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Fall 2009

**An, Soontae**, School of Journalism and Mass Communications, \$2,500; *Direct to Consumer Antidepressant Ads and Mental Health Literacy of Young Adults*

**Baptist, Joyce**, School of Family Studies and Human Services, \$3,500; *Research on Predictive and mediating effects of conflict styles, equity and self-construals on relationship maintenance strategies in collectivist and individualist culture in Malaysia*

**Caldas, Marcellus M**, Geography, \$1,000; *Biofuel expansion in Brazil: the case of sugarcane expansion in the Cerrado*

**Frey, Marsha L**, History, \$1,200; *Research the French Diplomatic Corps during the Revolution in Ireland*

**Gabbard, R. Todd**, Architecture, \$3,500; *Prototype Building Integrated Thermal Updraft Chimney*

**Hedrick, Donald K**, English, \$1,200; *Research on Folger Shakespeare Library and the Center for Gaming Research: Shakespeare and the Economics of Popular Entertainment, Then and Now*

**Hillard, Derek**, Modern Languages, \$250; *Poetry as Individuality: The Discourse of Observation in Paul Celan (funding to pay for Copyright permissions associated with forthcoming scholarly monograph)*

**McDaniel, Brenda**, Psychology, \$450; *LISREL: Software for Structural Equation Modeling*

**McMann, Michael G**, Art, \$1,000; *Research: "Photogrammetric Survey of the Built Environment in the American Rust Belt" trip to southeastern Michigan*

**Rankin, Amy**, Clinical Sciences, \$2,500; *Fluorophotometry evaluation of aqueous humor dynamics and blood aqueous barrier disruption in cats*

**Roberts, Kevin R**, Hospitality Management and Dietetics, \$3,500; *Exploration of food safety barriers in the Continuing Care Retirement Community Environment (with Kevin L. Sauer)*

**Stenske-KuKanich, Katherine**, Clinical Sciences, \$2,500; *Prevalence of Mycobacterium avium subspecies paratuberculosis from intestinal and nodal tissues of dogs and cats*

**Yum, Young-Ok**, Communication Studies, Theatre, and Dance, \$2,000; *Cultural, Interpersonal, and Psychological Correlates of Xenophobia and their Implications for Multicultural Curriculum and International Education*

# UNIVERSITY SMALL RESEARCH GRANTS

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Spring 2010

**Bell, Sam R**, Political Science, \$3,000; *Trade and International Military Interventions: Disaggregating Multilateral Interventions for a Dyadic Analysis (with Andrew Long)*

**Cai, Gangshu**, Management, \$1,750; *Market Expansion Effort in Asymmetric Channels*

**Chen, Xuanjuan (Jane)**, Finance, \$1,000; *Crisis, Systemic Risk, and Performance of Financial Risk Insurers*

**Doll, Gayle**, Gerontology, \$2,500; *Sexuality in Nursing Homes: The Ombudsman's Perspective*

**Kaczynski, Andrew T**, Kinesiology, \$1,500; *Examining Neighborhood Park Influences on Physical Activity*

**Kirkpatrick, Kimberly**, Psychology, \$4,000; *Differential Rearing Effects on Novelty-Seeking, Impulsive Action, and Impulsive Choice*

**McDaniel, Brenda**, Psychology, \$3,000; *Physical and Psychological Wellbeing in Kansas Boys and Girls Club Youth and Parents*

**McKeeman, Leah**, Secondary Education, \$2,000; *Video Vignettes: How Digital Case Studies Impact Learning in Teacher Preparation Programs*

**Ragar, Cheryl R**, American Ethnic Studies, \$1,600; *Interview students of the former Topeka native Aaron Douglas who is remembered today as the "Father of Black Art"*

**Tatonetti, Lisa**, English, \$1,600; *NEH Summer Institute: Native Cultures of Western Alaska and the Pacific Northwest Coast*

**Wood, Naomi J**, English, \$600; *Research Assistance for the Annotated Edition of Oscar Wilde's the Happy Prince and Other Tales*

**Wood, Spencer D**, Sociology, Anthropology, and Social Work, \$3,500; *Building Harlem by the Mississippi: The Black Cottonmakers' Jubilee, Race, Resistance, and the Roots of Black Nationalism in Memphis, Tennessee, 1936-1972*

**Yu, Han**, English, \$1,200; *Investigating the State of Intercultural Technical/Professional Communication Education in American Universities*

# EXTRAMURAL AWARDS

*Fiscal Year 2010 (July 1, 2009 – June 30, 2010)*

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.