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 1st, 2009–June 30th, 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 or 2-6804 or Susan Klein at 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
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.
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

<table>
<thead>
<tr>
<th>College/Office Receiving Awards</th>
<th>Number</th>
<th>Dollar Value</th>
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<tbody>
<tr>
<td>College of Agriculture</td>
<td>375</td>
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<tr>
<td>College of Architecture, Planning and Design</td>
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<td>College of Arts and Sciences</td>
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<td>College of Human Ecology</td>
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<td>Vice President for Student Life and Dean of Students</td>
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<td><strong>UNIVERSITY TOTAL</strong></td>
<td>953</td>
<td>$147,695,867</td>
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### Sources of Awards

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<tr>
<th>Sources</th>
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<td>State of Kansas</td>
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<td><strong>TOTAL</strong></td>
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COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS


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


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."


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


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."


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., 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), Hassan 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."


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."

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

Williams, Jeffery R., Berntold, 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."


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, 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."

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., Kansas Crop Improvement Association, $10,000, "Performance of Wheat Varieties in No-Till Systems."


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."

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."

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


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., 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."


Peterson, Dallas E., and Shoup, Douglas E. (Southeast Area Office), Kansas Soybean Commission, $1,311, "Managing Marestail 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., 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."


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, 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."

Prasad, P. V. Vara, 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, Johnathan 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), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), and Staggenborg, Scott A., US Department of Agriculture, $30,292, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Prasad, P. V. Vara, US Department of Transportation, $6,188, "Breeding and Testing of New Switchgrass Cultivars for Increased Biomass Production in Oklahoma, Arkansas, Texas and Kansas."


Presley, DeAnn R., State Conservation Commission, $10,000, "Residue Management and Natural Resources Survey."


Presley, DeAnn R., US Department of Agriculture, $2,000, "Linking Sustainable Agriculture, Soil Quality, and Water Quality for 4th Graders of Cheney Lake Watershed, Central Kansas."


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


Rezac, Mary E., Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Peterson, Jeffrey M. (Agricultural Economics), and Pfromm, Peter H. (Chemical Engineering), National Science Foundation, $69,249 (includes $7,644 from Kansas Bioscience Authority), "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

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

Rice, Charles W., Harrington Jr, John A. (Geography), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), National Science Foundation, $119,333, "Purchase of a Gas Chromatograph Upgrade."

Rice, Charles W., Harrington Jr, John A. (Geography), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), National Science Foundation, $863,386, "Understanding Climate Change in the Great Plains: Source, Impact, and Mitigation."


Roozeboom, Kraig L., Kansas Soybean Commission, $6,125, "Extension and Applied Research Programs for Kansas Soybean Production."

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

Roozeboom, Kraig L., Heer, William F., Shroyer, James P., and Stamm, Michael J., Kansas Wheat Commission, $10,000, "Improving Wheat Quality and Yield through Crop Rotation."

Roozeboom, Kraig L., Multisponsor, $377,295, "Crop Performance."


Roozeboom, Kraig L., and Prasad, P. V. Vara, The United Sorghum Checkoff Program Board, $25,000, "Update Publication on Growth, Development, and Nutrition Uptake of Sorghum."


Schaffer, Vernon A., Multisponsor, $2,140, "Foundation Seed Maintenance."

Schapaugh Jr, William T., Kansas Crop Improvement Association, $10,000, "Variety Development of Conventional Soybean."

Schapaugh Jr, William T., Buschman, Larry L. (Entomology), McCornack, Brian P., Smith, C. Michael (Entomology), and Whitworth, Robert "Jeff" J. (Entomology), Kansas Soybean Commission, $1,695, "Development of Genetic and Chemical Tactics for Management of the Dectes Stem Borer in Soybean."

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

Schapaugh Jr, William T., Long Jr, James H. (Southeast Agricultural Research Center), Todd, Timothy C. (Plant Pathology), and Trick, Harold N. (Plant Pathology), Kansas Soybean Commission, $168,632, "Trait and Production Efficiency Enhancement in Soybean."


Staggenborg, Scott A., Rice, Charles W., and Wang, Donghai (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, $8,400, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Staggenborg, Scott A., Wang, Donghai (Biological and Agricultural Engineering), and Wu, Xiaorong (Biological and Agricultural Engineering), The United Sorghum Checkoff Program Board, $6,422, "Stabilization of Sweet Sorghum Juice for Year-round Use (Research Agreement)."


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

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

Staggenborg, Scott A., 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. (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, Rogers, Danny H. (Biological and Agricultural Engineering), and Schlegel, Alan J. (Southwest Research Extension Center), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."


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


Staggenborg, Scott A., Bergtold, Jason S. (Agricultural Economics), Langemeier, Michael R. (Agricultural Economics), Nelson, Richard G. (Kansas Industrial Extension Services), 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."

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

Stamm, Michael J., Kansas Crop Improvement Association, $10,000, "Improving Winter Canola Germplasm and Varieties."

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

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

Stone, Loyd R., 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 Schlegel, Alan J. (Southwest Research Extension Center), US Department of Agriculture, $37,227, "Water Conservation - Increase Efficiency in Usage."

Stone, Loyd R., Golden, Bill B. (Agricultural Economics), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), and Rogers, Danny H. (Biological and Agricultural Engineering), US Department of Agriculture, $12,094, "Water Conservation- Increased Efficiency in Usage."
Tesso, Tesfaye, Global Crop Diversity Trust, $30,000, "Breeding Sorghum for Hot and Humid Climate: Exploiting Sources of Disease Resistance and High Grain Quality."

Tesso, Tesfaye, and Al-Khatib, Kassim, Kansas Grain Sorghum Commission, $69,800, "Breeding Grain Sorghum for Improved Dryland Production."

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

Tesso, Tesfaye, US Department of Agriculture, $15,000, "Accelerated Development of Cold Tolerant Sorghum Germplasm and Enhanced Application of Sorghum Genomic Resources."

Tesso, Tesfaye, Bean, Scott R., Wang, Donghai, and Yu, Jianming, US Department of Agriculture, $24,998, "Borlaug Fellowship Program Indonesia."

Thompson, Curtis R., and Janssen, Keith A., Multisponsor, $264,600, "Field Herbicidal Evaluations."

Welch, Stephen M., Caragea, Doina (Computing and Information Sciences), and Das, Sanjoy (Electrical and Computer Engineering), National Science Foundation, $35,105, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

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

Welch, Stephen M., Das, Sanjoy (Electrical and Computer Engineering), Hsu, William H. (Computing and Information Sciences), and Knapp, Mary C. (Dean of Agriculture and Director of AES), National Science Foundation, $8,687, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Yu, Jianming, and Prasad, P. V. Vara, Kansas Grain Sorghum Commission, $60,000, "Improving Drought Tolerance in Sorghum through Association Mapping."

Yu, Jianming, National Science Foundation, $87,955, "Genomic Analyses of Shoot Meristem Function in Maizes."


ANIMAL SCIENCES AND INDUSTRY

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


Boyle, Elizabeth, Kansas Department of Commerce, $19,242, "Value Added Meats Program for Kansas Companies and Entrepreneurs."

Bradford, Barry J., and Smith, John F., Church & Dwight Co., Inc., $45,000, "Effects of Balancing for Methionine and Lysine using Megamine-L."

Bradford, Barry J., and Smith, John F., Elanco Animal Health, $58,000, "Effects of Rumensin on Milk Production Efficiency and Metabolic Health of Transition Dairy Cattle."

Brouk, Micheal J., The United Sorghum Checkoff Program Board, $15,000, "Develop a "Livestock Nutritional Professional Information Booklet" Evaluating the Value of Sorghum in Dairy Cattle Nutrition (Marketing Agreement)."

Brouk, Micheal J., The United Sorghum Checkoff Program Board, $15,000, "Develop a "Livestock Nutritional Professional Information Booklet" Evaluating the Value of Sorghum in Beef Cattle Nutrition (Marketing Agreement)."

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

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

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Danisco Animal Nutrition, $50,000, "Determine the Effects of Dietary Enzymes in Diets Containing High-Fiber Co-Products on the Growth Performance and Nutrient Digestibility of Finishing Pigs."
DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Elanco Animal Health, "Effects of Pellet Binders on Pellet Quality - Trial 2."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Engrain, LLC, $25,000, "Evaluation of Novel Enzyme Blend on Nursery Pig Performance II."


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

DeRouchey, Joel M., Barden, Charles J. (Horticulture, Forestry and Recreation Resources), and Devlin, Daniel L. (Agronomy), US Department of Agriculture, $31,810, "Heartland Regional Water Coordination Initiative."


Drouillard, James S., Agricultural Utilization Research Institute, $98,000, "Intervention Strategies for Reduction of Food-borne Pathogens in Cattle Fed Distiller's Grains."


Edwards, Lily N., Bergamasco, Luciana (Clinical Sciences), and Coetzee, Johann F. (Clinical Sciences), US Department of Agriculture, "Effects of Age, Castration Methods and Analgesia on the Electroencephalogram in Calves: Validation of Acute Responses to Noxious Stimuli."

Fung, Daniel Y.C., Kastner, Curtis L. (Food Science Institute), Kastner, Justin J. (Diagnostic Medicine/Pathobiology), and Smith, J. Scott, US Department of Agriculture, $50,526, "Animal Science Food Safety Consortium - Kansas State University."

Fung, Daniel Y.C., Kastner, Curtis L. (Food Science Institute), Kastner, Justin J. (Diagnostic Medicine/Pathobiology), and Smith, J. Scott, US Department of Agriculture, $75,571, "Animal Science Food Safety Consortium - Kansas State University."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., Ajinomoto Heartland LLC, "Optimal use of Synthetic Amino Acids in Diets for 15 to 25 lb Pigs."
Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., Ajinomoto Heartland LLC, "Optimal Use of Synthetic Amino Acids in Diets for 15 to 26 lb Pigs: II."

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


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


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

Hancock, Joe D., US Agency for International Development, $102,000, "Enhancing the Utilization and Marketability of Sorghum and Pearl Millet through Improvements in Grain Quality, Processing Procedures, and Technology Transfer to the Poultry Industry."

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


Houser, Terry A., Blasi, Dale A., Dikeman, Michael E., Drouillard, James S., Olson, K C, and Unruh, John A., National Cattlemen's Beef Association, $50,000, "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."


Lee, Charles D., Kansas Department of Wildlife and Parks, $35,505, "Extension Education Position Support."
Lee, Charles D., US Department of Agriculture, $1,000, "North Central Regional Aquaculture Center Extension Project."


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

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

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

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., Elanco Animal Health, $21,000, "Effects of Pellet Binders on Pellet Quality - Trial 2."

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


Nutsch, Abbey L., Getty, Kelly J. K. (Food Science Institute), Kastner, Curtis L. (Food Science Institute), Kastner, Justin J. (Diagnostic Medicine/Pathobiology), and Retzlaff, Deanna D. (Dean of Continuing Education), US Department of Homeland Security, $94,613, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."


Olson, K C, and Jaeger, John R., Multimin USA, Inc., $40,800, "The Effect of Multiminr Injectable Trace Mineral Solution on Weight and Body Condition Score Change of Commercial Beef Cows and Heifers, Growth Performance of Suckling Calves, and Reproductive Performance of Cows and Heifers."

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

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

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

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., Engrain, LLC, "Evaluation of Novel Enzyme Blend on Nursery Pig Performance II."


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

COMMUNICATIONS


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."


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."

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


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., 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 Plantscapes."

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."


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."


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."


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, $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 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, $92,500, "P. papatasi Midgut Molecules: Gene Function and Assessing TBV Candidates (Administrative Supplement)."

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, 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., 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."


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., 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."


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, $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, Multisponsor, $104,070, "Grain Science."

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."


Gwirtz, 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., 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., and Fowler, Mark, Kansas Soybean Commission, $75,000, "Market Development Grant - International Grains Program."


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, 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."


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."


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., 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 Effector 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 Specialty 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, $17,675 (includes $17,675 from buffer coordinators & cooperator support), "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."


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."


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


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."


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., 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."


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., 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., 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."


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."


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., 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 Todd, Timothy C., Kansas Soybean Commission, $35,115, "Understanding Soybean Seed, Seedling and Root Pathogens in Kansas."


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."


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., 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, $41,200, "Towards Broad and Effective Cyst Nematode Resistance in Soybean."


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 Efffectors 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.,** 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 Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **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), **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 Rsrces & the Env / Ks Water Rsrce Rsrch Inst), **Holman, Johnathon D., Lamm, Freddie R.** (Northwest Research Extension Center),

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


LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING


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."


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."

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY


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 Groundwater."

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., 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."


Krishnamoorthi, Ramaswamy, NanoScale Corporation, $20,000, "ECHRP Project."

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


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."


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., 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., 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."


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


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."


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."


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."

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


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."


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)."


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."

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


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."


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 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."


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."

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 of, $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."


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."


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., 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."


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."


McLauchlan, Kendra K., National Science Foundation, $59,863, "CAREER: Ecosystem Change in Forests and Grasslands from Decades to Millenia: 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, US Environmental Protection Agency, $4,920, "Johns Hopkins Particulate Matter Research Center."


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


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 Assocation, 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."


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."


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."


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."


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."


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

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


Corwin, Kristan L., and Weaver, Oliver L., National Science Foundation, $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."


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."


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."

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

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


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."


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."


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."


**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."


**SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS**

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


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."


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."


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

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."
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."


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., Schools for Quality Education, Inc., $7,000, "Schools for Quality Education."


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., USD 497, Lawrence, $13,000, "Hillcrest Elementary - Reading First Project 2009."


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, $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."


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, Naqian (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."


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."


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, "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."


SPECIAL EDUCATION, COUNSELING, AND STUDENT AFFAIRS

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE


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., US Department of Agriculture, $205,380, "Integrated Next Generation Phosphorus Reduction Development P10-0045."

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


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)."


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., 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."


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 Rsrcs & 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 Rsrcs & 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, "Stabilization 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, 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, "Stabilization 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."


CENTR FOR HAZARDOUS SUBSTANCE RESEARCH


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."

CHEMICAL ENGINEERING


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."


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

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."


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, Babcock, Michael W. (Economics), Hessain, 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, Hessain, Mustaque A., Peterman, Robert J., and Stokes, Robert W., US Department of Transportation, "Region VII University Transportation Center (UTC)."

Esmaeily, 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."

Esmaeily, 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., 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."


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 Esmaeily, 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 Prestressed 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., 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."


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., 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

Amttoft, 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."


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, 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, Naqian (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, $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, Banerjee, Anindya, Hatcliff, John M., and Robby, -, US Department of Defense, "Evidence-based Trust in Large-Scale MLS Systems."


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


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**


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."


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."

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."


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, $96,000, "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."


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., 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, 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."


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., 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."


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, $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, and Wang, Donghai (Biological and Agricultural Engineering), 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., 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., 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."


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., 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."


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., 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., 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, and Hosni, Mohammad H., Whirlpool Corporation, "Dryer Door Viscous Latch Development."


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., 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, $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."


McGregor, Douglas S., US Department of Defense, $174,073, "Vapor Growth and Material Characterization of Mercuric Iodide (HgI2)."


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."


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., 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."


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."


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


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."


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."

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., 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 HCO3-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-1beta Release."

Shi, Jishu, US Department of Health and Human Services, $222,000, "Role of Defensin Receptor Signaling in IL-1beta Release."


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."


Weiss, Mark L., Arthritis Foundation, $4,000, "Umbilical Cord Stem Cells for Engineering TMJ Osteochondral Constructs."

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, "Solvant-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."

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., 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), Ajnomoto 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), Ajnomoto 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), Engrain, LLC, "Evaluation of Novel Enzyme Blend on Nursery Pig Performance II."

Dryden, Michael W., Bayer Corporation, $86,497, "Efficacy of Selmectin 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, $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, $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."


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."


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."


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, "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, 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."

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."


VETERINARY DIAGNOSTIC LABORATORY


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."


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."


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


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)."


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."


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., 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


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 Rsces & the Env / Ks Water Rsce 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 Rsces & the Env / Ks Water Rsce Rsrch Inst), Prasad, P. V. Vera (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), McCormack, 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., 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**


**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**


**SALINA AVIATION**


**Barnhart, Richard K.,** and **Smith, Andrew T.**, Heliplane, LLC, "AirTrailer."


**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


KSU POLICE DEPARTMENT

Stubbings, Donald C., Kansas Department of Revenue, $4,697, "Underage Alcohol Enforcement."

VICE PRESIDENT FOR ADMINISTRATION AND FINANCE


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."


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)."


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."


VICE PRESIDENT ELECTRONICS DESIGN LABORATORY

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."


Lynch, Michael L., Kauffman Scholars, Inc., $93,113, "Campus Residential Institutes for Kauffman Scholars."


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."

**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

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### Annual Proposal/Award Summary
**07/01/09 - 06/30/10**

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<thead>
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<th>Department/College</th>
<th>Proposals Submitted</th>
<th>Period</th>
<th>Total</th>
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**COLLEGE OF EDUCATION**

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**COLLEGE OF ENGINEERING**

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**COLLEGE OF HUMAN ECOLOGY**

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**COLLEGE OF TECHNOLOGY AND AVIATION**

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**COLLEGE OF VETERINARY MEDICINE**

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**COOPERATIVE EXTENSION**

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### Annual Proposal/Award Summary
07/01/09 - 06/30/10

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**OFFICE OF THE PRESIDENT**

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**OFFICE OF THE PROVOST**

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**OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE**

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### Annual Proposal/Award Summary
#### 07/01/09 - 06/30/10

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<th>Awards Received</th>
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| **OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS** |                     |              |                 |              |
| Department of Housing                      | 0                   | $0           |                 | $0           |
| Educational and Personal Development       | 2                   | $527,066     | 13              | $2,542,353   |
| KSU Child Development Center, Inc.         | 0                   | $0           | 2               | $86,165      |
| Office of Vice President for Student Life  | 0                   | $0           | 2               | $84,240      |
| University Counseling Services             | 2                   | $43,216      | 2               | $37,400      |
| **Total Student Life and Dean of Students**| 4                   | $570,282     | 19              | $2,750,158   |

**University Totals** 1,341 | $207,470,736 | $419,592,647 | 953 | $147,695,867
### AGRICULTURE

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<th>FY2009</th>
<th>FY2010</th>
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### ARCHITECTURE, PLANNING AND DESIGN

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### ARTS AND SCIENCES

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| UNIVERSITY TOTALS                        | $108,317,049 | $114,096,716 | $117,957,312 | $133,650,574 | $147,695,867 |


FACULTY DEVELOPMENT AWARDS

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
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

Spring 2009

Ben-Arieh, David H, Industrial and Manufacturing Systems Engineering, $500; Present “DEA analysis of Kansas clinics with sparse date” 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

Esmaeily, 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

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

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 Bonnieville 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

Wisy, 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
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

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


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.