September 23, 2011

Dear Colleague:

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

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

We hope you continue to find this information useful.

Thank you for your continued support and hard work.

Sincerely,

R.W. Trewyn
Vice President for Research
EXTRAMURAL AWARDS

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

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

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

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

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

K-State Notice of Nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, color, ethnic or national origin, sex, sexual orientation, gender identity, religion, age, ancestry, disability, military status, veteran status, or other non-merit reasons, in admissions, educational programs or activities and employment, including employment of disabled veterans and veterans of the Vietnam Era, as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990, has been delegated to the Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807. Revised April 22, 2008.
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.

<table>
<thead>
<tr>
<th>I. Sponsored</th>
<th>$124,698,829</th>
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<tr>
<td>II. Appropriated</td>
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<tr>
<td>Main Campus State Appropriation</td>
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<td>Experiment Station Programs and Extension Services</td>
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<tr>
<td>Federal Appropriation*</td>
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<td>State Appropriation</td>
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<tr>
<td>Veterinary Medical Center State Appropriation</td>
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<td>III. Donated**</td>
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**RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL | $220,074,346**

**KSU Foundation funds transferred to KSU in support of research/scholarly activity (excludes transfers to Athletics).**
KANSAS STATE UNIVERSITY
Total Extramural Awards and Millions of Dollars Received

Number of Awards

Number of Awards

Millions of Dollars

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Awards</th>
<th>Millions of Dollars</th>
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<tr>
<td>'01</td>
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<tr>
<td>'02</td>
<td>882</td>
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<td>'03</td>
<td>998</td>
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<td>1005</td>
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<td>'07</td>
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<td>'09</td>
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<td>'10</td>
<td>953</td>
<td>$147.7</td>
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<tr>
<td>'11</td>
<td>955</td>
<td>$124.6</td>
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## Distribution of New Awards Among College and Offices of the University

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<thead>
<tr>
<th>College/Office Receiving Awards</th>
<th>Number</th>
<th>Dollar Value</th>
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<tr>
<td>College of Agriculture</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 Education</td>
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<td>College of Engineering</td>
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<td>College of Technology and Aviation</td>
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<td>Vice President for Research</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>
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## Sources of Awards

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<td>Department of Health and Human Services</td>
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<td>Environmental Protection Agency</td>
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<td>National Aeronautics and Space Administration</td>
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<td>State of Kansas</td>
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<td><strong>TOTAL</strong></td>
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<td>$124,698,829</td>
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AGRICULTURAL ECONOMICS


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

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

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

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

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


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


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


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


Langemeier, Michael R., Bergtold, Jason S., Nelson, Richard G. (Chemical Engineering), Staggenborg, Scott A. (Agronomy), and Williams, Jeffery R., US Department of Transportation, "Farmers' Willingness to Produce Cellulosic Biofuel Feedstocks Under Alternative Contractual, Pricing and Harvesting Arrangements."
Langemeier, Michael R., Nelson, Richard G. (Kansas Industrial Extension Services), Staggenborg, Scott A. (Agronomy), and Wang, Donghai (Biological and Agricultural Engineering), US Department of Transportation, $6,095, "Investigation/Simulation of Environmental Impacts and Economic Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

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

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


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

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

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


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

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

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

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

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

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

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


AGRICULTURAL EXPERIMENT STATION

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

AGRICULTURAL RESEARCH CENTER - HAYS


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

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

Harmon, Keith R., Multi-Sponsor, $11,000, "Beef Research."


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


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

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

Perumal, Ramasamy, and Aiken, Robert M. (Northwest Research Extension Center), Kansas Grain Sorghum Commission, $8,673, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."
Perumal, Ramasamy, Little, Christopher R. (Plant Pathology), and Tesso, Tesfaye (Agronomy), Kansas Grain Sorghum Commission, $3,278, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

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

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

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

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

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

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

AGRONOMY

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

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

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

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

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

Devlin, Daniel L., Champion, Benjamin (Office of the Provost), and Rice, Charles W., National Science Foundation, "CCEP-I: Central Great Plains Climate Change Education Partnership."
Devlin, Daniel L., and Graham, Steven M. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrc Rsrch Inst), US Environmental Protection Agency, $16,931, "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

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


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

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

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

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

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

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

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


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

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


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

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

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


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

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

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

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

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


Pagadala, P.V. Vara, Tesfaye, Tesfaye, and Yu, Jianming, Kansas Grain Sorghum Commission, "Genetic Analysis of Drought Tolerance in Grain Sorghum."
Pagadala, P.V. Vara, Tesso, Tesfaye, and Yu, Jianming, Kansas Grain Sorghum Commission, $104,000, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

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


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

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

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

Pagadala, P.V. Vara, Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrc Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A., and Steward, David R. (Civil Engineering), US Department of Agriculture, $25,410, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."
Peterson, Dallas E., Currie, John A. (Southwest Research Extension Center), Dumler, Troy (Southwest Area Office), Maddux, Larry D., Martin, Kent L. (Southwest Area Office), Olson, Brian L. (Northwest Area Office), Schlegel, Alan J. (Southwest Research Extension Center), Shoup, Douglas E. (Southeast Area Office), Stahlman, Phillip W. (Agricultural Research Center-Hays), and Thompson, Curtis R., Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

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

Peterson, Dallas E., Monsanto Company, $8,000, "Develop Region-Specific Weed Management Recommendation forDicambaTolerant Soybeans in Min-Till System."


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

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

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

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


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

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

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

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

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

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

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


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

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

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


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

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

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

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

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

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

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

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

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


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


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

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

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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."

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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 Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

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

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

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

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

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

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


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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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


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

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

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

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."

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

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

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


Phebus, Randall K., XIM Group LLC, $56,000, "Laboratory Evaluation of the Efficacy of Novel Antimicrobials for Food and Environmental Applications."
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Smith, John F., and Bradford, Barry J., Elanco Animal Health, "Can rbST Mitigate the Metabolic Consequences of Inflammation?"

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

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

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


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ENTOMOLOGY

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


Buschman, Larry L., Multi-Sponsor, $11,500, "Insecticide Management of Field Crop Insects in Southwestern Kansas."
Buschman, Larry L., Boyer, Cheryl R. (Horticulture, Forestry and Recreation Resources), Cloyd, Raymond A., DeWolf, Erick D. (Plant Pathology), Dickman, Holly (County Agents-Northwest Sector), Kennelly, Megan (Plant Pathology), McCormack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L., Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips, Thomas W., Schapaugh Jr, William T. (Agronomy), Smith, C. Michael, Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S. (Horticulture, Forestry and Recreation Resources), and Whitworth, Robert "Jeff" J., US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

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


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

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

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

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

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

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

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

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

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

McCornack, Brian P., Monsanto Company, $14,600, "Evaluate Soybean Aphid, Aphis glycines, Development and Fecundity on Monsanto Germplasm (Service Order 29)."
McCornack, Brian P., US Department of Agriculture, $42,247, "Impact of Bioenergy Crops on Pests, Natural Enemies and Pollinators in Agricultural and Non-Crop Landscapes."


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

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

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


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

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


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


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

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


Phillips, Thomas W., US Department of Agriculture, $10,250, "Alternatives to Methyl Bromide to Control Mites on Processed Ham."
Phillips, Thomas W., Boyer, Cheryl R. (Horticulture, Forestry and Recreation Resources), Buschman, Larry L., Cloyd, Raymond A., DeWolf, Erick D. (Plant Pathology), Dickman, Holly (County Agents-Northwest Sector), Kennelly, Megan (Plant Pathology), McCornack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L., Moyer, Joseph L. (Southeast Agricultural Research Center), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael, Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S. (Horticulture, Forestry and Recreation Resources), and Whitworth, Robert "Jeff" J., US Department of Agriculture, $37,441, "Extension IPM Coordination Program for Kansas."

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


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


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

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


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


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


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


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

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

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

**FOOD SCIENCE INSTITUTE**

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

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

**GRAIN SCIENCE AND INDUSTRY**

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

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

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

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

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

Bhadriraju, Subramanyam, Kennelly, Megan (Plant Pathology), Little, Christopher R. (Plant Pathology), and Rivard, Cary L. (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, $4,920, "Cochran Fellowship Program."
Bhadriraju, Subramanyam, and Zhu, Kun Yan (Entomology), US Department of Agriculture, $391,010, "Evaluation, Integration, and Implementation of Non-Fumigation Based Pest Management Approaches for Food Processing Facilities."

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

Channaiah, Lakshmikantha, and Maier, Dirk E., PureLine Treatment System, "Inhibition of Aspergillus flavus, Aspergillus parasiticus, Fusarium culmorum, Fusarium graminearum Growth and Detoxification of Aflatoxins and Deoxynivalenol (DON) in Wheat using Chlorine Dioxide (CO2)."


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

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

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

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

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

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

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

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

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

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

Madl, Ronald L., Kramer, Bradley A. (Advanced Manufacturing Institute), Richardson, Daniel C. (K-State Olathe Innovation Campus), Trewyn, R. W. (Office of the Provost), and Tucker, Jeffrey W. (Advanced Manufacturing Institute), National Science Foundation, $139,922 (includes $19,928 from KTEC), "Kansas Bioprocessing Science and Engineering Center."
Madl, Ronald L., US Department of Education, $14,120, "Integral Valorization of Bio- Production."

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

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

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

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

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

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

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

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

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

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

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

Maier, Dirk E., and Channaiah, Lakshmikantha, PureLine Treatment System, $19,647, "Inhibition of Aspergillus flavus, Aspergillus parasiticus, Fusarium culmorum, Fusarium graminearum Growth and Detoxification of Aflatoxins and Deoxynivalenol (DON) in Wheat using Chlorine Dioxide (CO2)."

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

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

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

Maier, Dirk E., Campabadal, Carlos, Fowler, Mark, and O'Neil III, Howard J., US Department of Agriculture, $15,600, "Service Agreement."
McKinney, Leland, Bhadriraju, Subramanyam, and Maier, Dirk E., Kansas Corn Commission, "Use of Carbon Dioxide Sensors for Early Detection of Spoilage in Stored Corn."

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

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


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

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

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


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

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

HORTICULTURE, FORESTRY AND RECREATION RESOURCES


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


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

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

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

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


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

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

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

Reid, William R., US Department of Agriculture, $6,000, "Advancement of American Elderberry as a Missouri Specialty Crop by Elucidating its Pest and Disease Complex."

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

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

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

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

Williams, Kimberly A., Gloeckner Foundation, Inc. (Fred C.), $2,600, "eGRO-Electronic Grower Resources Online."
Williams, Kimberly A., Gloeckner Foundation, Inc. (Fred C.), $10,800, "Understanding the Role of Microbial Activity on Nutrient Availability from Organic Fertilizers Applied to Soilless Root Media."

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

**INTERNATIONAL AGRICULTURAL PROGRAMS**

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

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

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


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

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

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

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

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

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

NORTHWEST RESEARCH EXTENSION CENTER


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


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

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


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

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

Coyne, Patrick J., Multi-Sponsor, $17,040, "Sunflower Performance Testing Program."

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


Lamm, Freddie R., Syngenta Crop Protection, LLC, $167,700, "Research and Materials Transfer Agreement."
Lamm, Freddie R., Aiken, Robert M., Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsces & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Pagadala, P.V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

OFFICE OF ACADEMIC PROGRAMS

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

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

PLANT PATHOLOGY

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


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

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

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

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


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

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

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

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

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

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


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

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

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


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

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


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

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

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

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

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

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

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

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

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

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

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


Little, Christopher R., The United Sorghum Checkoff Program Board, $27,195, "Grain Quality of White Food Grade Sorghum Lines."
Little, Christopher R., United Soybean Board, $60,000, "Charcoal Rot Cultivar Evaluation Using Adapted and Exotic Sources of Resistance."

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


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

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

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

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

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

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


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

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

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

Trick, Harold N., Schapaugh Jr, William T. (Agronomy), and Todd, Timothy C., Kansas Soybean Commission, $75,914, "Enhancement of Soybean Through Genetic Engineering."
Trick, Harold N., Kusel, Kelly R. (Southeast Agricultural Research Center), Schapaugh Jr, William T. (Agronomy), and Todd, Timothy C., Kansas Soybean Commission, "Trait and Production Efficiency Enhancement in Soybean."

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


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

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

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

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

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

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

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


SOUTHEAST AGRICULTURAL RESEARCH CENTER


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

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


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

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

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


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

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

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

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

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


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

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


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

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

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING

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

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

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

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY


Chen, Jianhan, National Science Foundation, $136,404, "CAREER: Implicit Modeling of Non-polar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins."
Chen, Jianhan, Schultz, Bruce D. (Anatomy and Physiology), and Tomich, John M., US Department of Health and Human Services, "Model Synthetic Channel Assemblies."

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

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


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

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

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


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

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

**BIOLOGY**

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

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


Brown, Susan J., US Department of Health and Human Services, $157,680, "KSU Bioinformatics Core."
Chapes, Stephen K., US Department of Health and Human Services, $27,100, "(7) ARRA Scholars (Cikanek, Hull, Hunter, Jones, Kinney, Laudick, Rayl)."


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


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

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

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

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

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

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

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


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

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

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

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

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


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

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

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


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


Jumpponen, Ari M., and Wisely, Samantha, National Science Foundation, "URM: Undergraduate Research and Mentoring in Ecological Genomics."
Jumpponen, Ari M., Garrett, Karen A. (Plant Pathology), and Kennelly, Megan (Plant Pathology), The Ceres Trust, $11,563, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."


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


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

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


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

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

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

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

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

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

Roelofs, Jeroen, and Asano, Katsura, US Department of Health and Human Services, $9,830, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle (Mentor)."
Rothenburg, Stefan, and Rintoul, David A., US Department of Health and Human Services, "Stefan Rothenburg Start-up Package."

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


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


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

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


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


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

Welti, Ruth, National Science Foundation, $4,750, "Metabolomics: A Functional Genomics Tool for Deciphering Functions of Arabidopsis Genes in the Context of Metabolic and Regulatory Networks."
Wisely, Samantha, and Jumpponen, Ari M., National Science Foundation, $749,919, "URM: Undergraduate Research and Mentoring in Ecological Genomics."


CHEMISTRY

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

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

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


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

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

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

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

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

Bossmann, Stefan, Gadbury, Gary L. (Statistics), and Troyer, Deryl L. (Anatomy and Physiology), US Department of Health and Human Services, $100,280, "Functionalized Bimagnetic Core/Shell Fe/Fe3O4 Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

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

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

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

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

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

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


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

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

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

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

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

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

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


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

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

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

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

Li, Jun, National Science Foundation, $280,293, "Coaxially Coated Vertical Carbon Nanofiber Arrays as 3D Multifunctional Electrodes for Battery-Supercapacitor Hybrids."
Li, Jun, National Science Foundation, $238,581, "Nanotechnology for Renewable Energy."

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


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

DEAN OF ARTS AND SCIENCES

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

ENGLISH

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

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

GEOGRAPHY


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

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

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

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

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

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

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

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

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

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

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

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

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

GEOLOGY

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

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

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

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

HISTORY

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

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

Zschoche, Sue, and Lynn-Sherow, Bonnie, Kansas State University Foundation, $25,000, "Chapman Center for Personnel."
Zschoche, Sue, Diaz De Sabates, Gabriela B. (Womens Studies), Janette, Michele (Womens Studies), and Morgan, Morgan J., National Endowment for the Humanities, "Annie, Get Your Camera! Kansas History Roadshow."

**KINESIOLOGY**

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

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

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

**MATHEMATICS**

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


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

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

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

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

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

**MUSIC**

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

**PHYSICS**

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


Bolton, Timothy A., and Ivanov, Andrew G., Fermi National Accelerator Laboratory, $35,620, "Fermilab Salary Support for Dr. Makouski, Dr. Romchek, and Dr. Ivanov."
Bolton, Timothy A., and Maravin, Yurii, Fermi National Accelerator Laboratory, $13,000, "Pixels M&O Subsystem."

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

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

Bolton, Timothy A., National Science Foundation, $83,000, "PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector."

Bolton, Timothy A., Sidwell, Ronald A., Stanton, Noel R., and Von Toerne, Eckhard, National Science Foundation, $15,000, "Quarknet."


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

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

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

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

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

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

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


Ivanov, Andrew G., and Bolton, Timothy A., National Science Foundation, "MRI-R2: Development of a Pixel Detector for the Upgraded CMS Experiment."
Ivanov, Andrew G., National Science Foundation, $131,819, "Towards New Discoveries at the Energy Frontier."


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

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

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

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


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

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

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


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

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


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

Thumm, Uwe, National Science Foundation, $38,924, "Quantum Dynamics in Particle Interactions with Atomically Flat and Nano-Structured Surfaces."


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

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

POLITICAL SCIENCE

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

PSYCHOLOGY

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

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


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

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

Monaco, Gregory E., Gruenbacher, Don M. (Electrical and Computer Engineering), and Scoglio, Caterina M. (Electrical and Computer Engineering), National Science Foundation, $8,762, "GpENI: Great Plains Environment for Network Innovation."
SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS


SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

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

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

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


STATISTICS

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

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

Gadbury, Gary L., Bossmann, Stefan (Chemistry), and Troyer, Deryl L. (Anatomy and Physiology), US Department of Health and Human Services, $17,440, "Functionalized Bimagnetic Core/Shell Fe/Fe3O4 Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

WOMENS STUDIES

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

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

MANAGEMENT

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

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

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

MARKETING

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


COLLEGE OF EDUCATION

CURRICULUM AND INSTRUCTION

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

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

DEAN OF EDUCATION


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

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

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

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

Havlicek, Barbara J., Multi-Sponsor, $69,581, "Educational Computer Assistance."
Havlicek, Barbara J., Schools for Quality Education, Inc., $7,000, "Schools for Quality Education."


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

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


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

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

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

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

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

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

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

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

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


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

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

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

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

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

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


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

EDUCATIONAL LEADERSHIP

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

ELEMENTARY EDUCATION

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

SECONDARY EDUCATION

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

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE


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


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

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


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

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


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


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

Tucker, Jeffrey W., Kansas Department of Transportation, $6,000, "KHP Safety Belt Convincers S10-0043."

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


Tucker, Jeffrey W., Kramer, Bradley A., Madl, Ronald L. (Grain Science and Industry), Richardson, Daniel C. (K-State Olathe Innovation Campus), and Trewyn, R. W. (Office of the Provost), National Science Foundation, "Kansas Bioprocessing Science and Engineering Center."


Tucker, Jeffrey W., North Central Regional Planning Commission, $10,000, "Regional Industry Cluster Analysis and Innovation Networking PO8-0098."
Tucker, Jeffrey W., State of New York, $82,880, "Request for Quotation Soliciting Bids for a Five Year Term Contract for Seat Belt Convencers."


Tucker, Jeffrey W., US Department of Agriculture, $5,280, "Drying of Solids from Phosphorus Reduction System for Pathogen Reduction P10-0073."

Tucker, Jeffrey W., US Department of Agriculture, $45,000, "Experimental and Numberical Evaluation of Water Feed Re-Configuration for Mixing Improvements in the Phosphorous Reduction Systems (PHRED): Phase III (P11-0066)."

Tucker, Jeffrey W., US Department of Agriculture, $1,800, "Experimental Evaluation of Water Feed Re-configuration for Mixing Improvement in the Phosphorous Reduction System (PHRED): Phase II P11-0063."

Tucker, Jeffrey W., and Kramer, Bradley A., US Department of Commerce, $370,144 (includes $130,144 from External Match), "University Center Economic Development Program."

Tucker, Jeffrey W., US Department of Defense, $19,839, "Seat Belt Convincer S11-0027."

Tucker, Jeffrey W., US Department of Labor, $32,100, "Wind Farm Construction & Logistics Supply Chain Workshop P11-0061."

Tucker, Jeffrey W., US Department of Labor, $50,000, "WIRED Training."

Tucker, Jeffrey W., US Department of Transportation, $5,200, "KHP Safety Belt Roll-Over Repair."

**BIOLOGICAL AND AGRICULTURAL ENGINEERING**

Barnes, Philip L., and DeRouchey, Joel M. (Animal Sciences and Industry), CAFO Best Waste Solutions LLC, "Effects of CAFO’s Best Technology on Swine Manure Nutrient Concentration."

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


Ebert, Kerri L., and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, "2011 Kansas SARE Professional Development Program."

Harner III, Joseph P., Graham, Steven M. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), and Maghirang, Ronaldo G., US Department of Agriculture, "Air Quality: Reducing Emissions from Cattle Feedlots and Dairies in TX and KS."

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

Hutchinson, Stacy L., and Hutchinson, J. M. Shawn (Geography), US Army, $50,000, "Fort Riley Range and Training Land Assessment."

Hutchinson, Stacy L., and Hutchinson, J. M. Shawn (Geography), US Department of Defense, $145,850, "Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability."

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

Maghirang, Ronaldo G., Graham, Steven M. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), and Harner III, Joseph P., US Department of Agriculture, $136,270, "Air Quality: Reducing Emissions from Cattle Feedlots and Dairies in TX and KS."

Maghirang, Ronaldo G., US Department of Agriculture, $49,952, "Mechanistic Modeling of Wind Barriers and Grain Commingling Using CFD and DEM."

Maghirang, Ronaldo G., US Department of Agriculture, $28,311, "Modeling Insect Movement During Grain Handling in Bucket Elevators."


Powell, G. Morgan, US Environmental Protection Agency, $2,800, "Kansas Environmental Leadership Program (KELP) 05-06 Class."

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

Rogers, Danny H., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrsces & the Env / Ks Water Rsrsce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P.V. Vara (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $4,235, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

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

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


Wang, Donghai, Rice, Charles W. (Agronomy), and Staggenborg, Scott A. (Agronomy), Kansas Grain Sorghum Commission, $35,000, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."
Wang, Donghai, and Drouillard, James S. (Animal Sciences and Industry), Kansas Grain Sorghum Commission, $7,000, "Effect of Decortication on Feed Quality of Sorghum DDGS."

Wang, Donghai, and Hohn, Keith L. (Chemical Engineering), National Science Foundation, $161,500, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."

Wang, Donghai, and Pei, Zhijian (Industrial and Manufacturing Systems Engineering), National Science Foundation, $5,500, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

Wang, Donghai, and Drouillard, James S. (Animal Sciences and Industry), The United Sorghum Checkoff Program Board, $10,000, "Effect of Heating on the Quality of Sorghum DDGS."

Wang, Donghai, US Department of Agriculture, $53,000, "Bio-industrial Uses of Sorghum Proteins."

Wang, Donghai, US Department of Agriculture, $85,000, "Developing Technology and Procedures to Measure Characteristics of Grain and Plants."

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

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

Yuan, Wenqiao, National Science Foundation, $22,000, "CAREER: Multi-Scale Structured Solid Carriers Enabling Algae Biofuel Manufacturing in the Ocean."

Yuan, Wenqiao, and Riding, Kyle (Civil Engineering), National Science Foundation, $1,800, "Collaborative Research: New Natural Supplementary Cementitious Materials for Concrete."

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


CENTER FOR HAZARDOUS SUBSTANCE RESEARCH


Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research), and Leven, Blase A., US Department of Defense, $212,540, "Expeditionary Capabilities Consortium."
Erickson, Larry E., Davis, Lawrence C. (Biochemistry), Hettiarachchi, Ganga M. (Agronomy), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), Westar Energy, $17,378, "Westar Wetlands Project."

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

Leven, Blase A., US Environmental Protection Agency, $9,386, "R5 Tremont Phase 2."

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

Leven, Blase A., US Environmental Protection Agency, $10,720, "Tremont Barrel Fill."

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

CHEMICAL ENGINEERING


Berry, Vikas, MEMC Electronic Materials Inc., $237,916, "Growth and Transfer of Large-Area Graphene on Silicon and Silica Substrates and its Surface Engineering."

Berry, Vikas, National Science Foundation, $400,000, "CAREER: Detailed Characterization of Graphene Quantum Dots of Controlled Size, Shape and Chemistry."

Berry, Vikas, National Science Foundation, $301,074, "Detailed Surface Engineering and Electrical Characterization of pi-Functionalized Graphene Sheets and Ribbons with Preserved Lattice and Electronic Characteristics."

Berry, Vikas, US Department of Defense, $50,000, "Tapered Graphene Nanoribbons of Controlled Tapering Angle: Structurally Tuning the Charge-carrier Properties."

Edgar, James H., and Geuther, Jeffrey A. (Mechanical and Nuclear Engineering), National Science Foundation, $145,668, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."

Edgar, James H., Pfromm, Peter H., and Rezac, Mary E., National Science Foundation, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."


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

Hohn, Keith L., and Wang, Donghai (Biological and Agricultural Engineering), National Science Foundation, $161,500, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."


Jones, Byron W., Kansas Technology Enterprise Corporation, $11,585, "Kansas Defense 2010."


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

Pfromm, Peter H., Edgar, James H., and Rezac, Mary E., National Science Foundation, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."

Pfromm, Peter H., and Rezac, Mary E., US Department of Agriculture, "Membrane Reactor Technology for the Efficient Conversion of Biomass to Industrial Chemicals."

Rezac, Mary E., Dow Corning Corporation, $25,000, "Determining the Preferred Alternative Energy Utilization Strategy for a Dow Corning Manufacturing Facility and Completion of an Initial Process Design of the Preferred System."

Rezac, Mary E., National Science Foundation, $297,351, "REU Site: Summer Academy in Sustainable BioEnergy."

Rezac, Mary E., Edgar, James H., and Pfromm, Peter H., National Science Foundation, $1,598,997, "Sustainable Energy Solutions via Systems-Based Research: A Proposal to Modernize the Sustainable Energy Research Infrastructure in Durland Hall."

Rezac, Mary E., and Pfromm, Peter H., US Department of Agriculture, $188,369, "Membrane Reactor Technology for the Efficient Conversion of Biomass to Industrial Chemicals."

Rezac, Mary E., and Madl, Ronald L. (Grain Science and Industry), US Department of Energy, $500,000, "Kansas State University Center for Sustainable Energy."

Schlup, John R., US Department of Transportation, $26,653, "Online Courses on Biorenewable Resources and on Engineering Sustainability."

CIVIL ENGINEERING

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

Dissanayake, Sunanda, Hossain, 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, "Evaluating the Time-Dependent and Bond Characteristics of a Lightweight Concrete Mix for Kansas Prestressed Concrete Bridges."


Esmaeily, Asadollah, and Rasheed, Hayder A., Kansas Department of Transportation, "LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns: Phase 2."

Esmaeily, Asadollah, and Riding, Kyle, Kansas Department of Transportation, "Measurement of the Pore Size Distribution of Limestone Aggregates in Concrete Pavement Cores."

Hossain, Mustaque A., Kansas Department of Transportation, $20,000, "Administration of KDOT/KTRAN Program."

Hossain, Mustaque A., Kansas Department of Transportation, $23,400, "Database Development and Analysis of Hamburg Rut Tester Data."


Hossain, Mustaque A., Dissanayake, Sunanda, Peterman, Robert J., and Stokes, Robert W., US Department of Transportation, $234,122, "Region VII University Transportation Center (UTC)."

Landman, E. Dean, and Russell, Eugene R., Kansas Department of Transportation, "Optimizing the Analysis of Routing Oversize/Overweight Loads to Provide Efficient Freight Corridors."

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

Natarajan, Balasubramaniam, Hatcliff, John M. (Computing and Information Sciences), Singh, Gurdip (Computing and Information Sciences), Wallentine, Virgil E. (Computing and Information Sciences), and Warren, Steven, Cerner Corporation, $46,996, "Falls Predictor Device."

Peterman, Robert J., Kansas Department of Administration, $19,343, "Long Term Monitoring of a Pretensioned Concrete Bridge near Winfield, KS."

Peterman, Robert J., and Esmaeily, Asadollah, Kansas Department of Transportation, $4,686, "Evaluating the Time-Dependent and Bond Characteristics of a Lightweight Concrete Mix for Kansas Prestressed Concrete Bridges."

Peterman, Robert J., Beck, B. Terry (Industrial and Manufacturing Systems Engineering), and Wu, Chih-Hang (Industrial and Manufacturing Systems Engineering), US Department of Transportation, $473,611 (includes $68,939 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

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

Riding, Kyle, Larson, Nancy J. (Kansas Industrial Extension Services), and Stokes, Robert W., Kansas Department of Transportation, $60,000, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."

Riding, Kyle, Kansas Department of Transportation, $174,000, "Evaluation of Concrete Strength and Permeability."

Riding, Kyle, Kansas Department of Transportation, $43,500, "Kansas Sustainable Concrete Pavements Initiative."

Riding, Kyle, Kansas Department of Transportation, $38,945, "Kansas Sustainable Concrete Pavements Initiative - Potential Use of Nanotechnology."

Riding, Kyle, and Esmaeily, Asadollah, Kansas Department of Transportation, $11,700, "Measurement of the Pore Size Distribution of Limestone Aggregates in Concrete Pavement Cores."

Riding, Kyle, National Science Foundation, $174,999, "BRIDGE: Linking the Microstructure, Performance, and Sustainability of Mixed Glass Cullet Blended Cements."

Riding, Kyle, and Yuan, Wenqiao (Biological and Agricultural Engineering), National Science Foundation, $4,200, "Collaborative Research: New Natural Supplementary Cementitious Materials for Concrete."

Riding, Kyle, US Department of Transportation, $30,000, "Effect of Y-Cracking on CRCP Performance (PS-14)."

Riding, Kyle, US Department of Transportation, $7,200, "Implementation of Alternatives to Asphalt Concrete Subbases for Concrete Pavement."


Russell, Eugene R., and Landman, E. Dean, Kansas Department of Transportation, $25,000, "Optimizing the Analysis of Routing Oversize/Overweight Loads to Provide Efficient Freight Corridors."

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

Stokes, Robert W., Larson, Nancy J. (Kansas Industrial Extension Services), and Riding, Kyle, Kansas Department of Transportation, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."
Stokes, Robert W., Dissanayake, Sunanda, Hossain, Mustaque A., and Peterman, Robert J., US Department of Transportation, "Region VII University Transportation Center (UTC)."

Stokes, Robert W., Bhandari, Alok, and Najjar, Yacoub M., US Department of Transportation, $462,900, "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

Stokes, Robert W., US Department of Transportation, $100,000, "Traffic Assistance Services for Kansas (TASK) Program (FY 2009-2011)."

Warren, Steven, Hatcliff, John M. (Computing and Information Sciences), Natarajan, Balasubramaniam, Singh, Gurdiv (Computing and Information Sciences), and Wallentine, Virgil E. (Computing and Information Sciences), Cerner Corporation, "Falls Predictor Device."

Warren, Steven, Hatcliff, John M. (Computing and Information Sciences), Robby, - (Computing and Information Sciences), Singh, Gurdiv (Computing and Information Sciences), and Wallentine, Virgil E. (Computing and Information Sciences), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), and Hatcliff, John M. (Computing and Information Sciences), National Science Foundation, $3,000, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

COMPUTING AND INFORMATION SCIENCES

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

Andresen, Daniel A., Hatcliff, John M., and Warren, Steven (Civil Engineering), National Science Foundation, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

Andresen, Daniel A., Hatcliff, John M., Robby, - (Electrical and Computer Engineering), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

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

Caragea, Doina, Das, Sanjoy (Electrical and Computer Engineering), and Welch, Stephen M. (Agronomy), National Science Foundation, $69,827, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."

Caragea, Doina, Das, Sanjoy (Electrical and Computer Engineering), Kluitenberg, Gerard J. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $25,932, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."


Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $221,780, "Expeditionary Capabilities Consortium."
Gustafson, David A., and Singh, Gurdip, GTM Sportswear, $9,346, "CIS Internship Program."


Hatcliff, John M., Natarajan, Balasubramaniam (Civil Engineering), Singh, Gurdip, Wallentine, Virgil E., and Warren, Steven (Civil Engineering), Cerner Corporation, "Falls Predictor Device."


Hatcliff, John M., Andresen, Daniel A., and Warren, Steven (Civil Engineering), National Science Foundation, $80,000, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

Hatcliff, John M., Andresen, Daniel A., and Warren, Steven (Civil Engineering), National Science Foundation, $9,000, "CPS: Medium: Collaborative Research: Infrastructure and Technology Innovations for Medical Device Coordination."

Hatcliff, John M., Amtoft, Torben, Banerjee, Anindya, Ou, Xinming (Simon), and Robby, -, US Department of Defense, $600,000, "Evidence-based Trust in Large-Scale MLS Systems."

Hatcliff, John M., Andresen, Daniel A., Robby, -, Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering), US Department of Health and Human Services, $75,000, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), Wallentine, Virgil E., and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, $338,428, "Infusing System Development and Sensor Technology in Education."

Neilsen, Mitchell L., Sandia National Laboratories, $40,000, "Interface Development for Thermal Battery Models (FY11)."

Neilsen, Mitchell L., US Department of Agriculture, $70,000, "Integration of Spillway Erosion Technology and WinTR-20 with WinDAM."

Ou, Xinming (Simon), National Science Foundation, $396,676, "TC: SMALL: Collaborative Research: Models and Techniques for Enterprise Network Security Metrics."


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

Robby, -, Hatcliff, John M., Singh, Gurdip, Wallentine, Virgil E., and Warren, Steven (Civil Engineering), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."


Robby, -, 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, Hatcliff, John M., Natarajan, Balasubramaniam (Civil Engineering), Wallentine, Virgil E., and Warren, Steven (Civil Engineering), Cerner Corporation, $46,996, "Falls Predictor Device."

Singh, Gurdip, and Gustafson, David A., GTM Sportswear, "CIS Internship Program."

Singh, Gurdip, Hatcliff, John M., Robby, -, Wallentine, Virgil E., and Warren, Steven (Civil Engineering), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

Singh, Gurdip, Neilson, 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."


Wallentine, Virgil E., Hatcliff, John M., Natarajan, Balasubramaniam (Civil Engineering), Singh, Gurdip, and Warren, Steven (Civil Engineering), Cerner Corporation, "Falls Predictor Device."

Wallentine, Virgil E., Hatcliff, John M., Robby, -, Singh, Gurdip, and Warren, Steven (Civil Engineering), National Science Foundation, "An Integrated Development and Certification Environment for a Medical Device Coordination Framework."

Wallentine, Virgil E., Neilson, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, "Infusing System Development and Sensor Technology in Education."

DEAN OF ENGINEERING

Larson, Nancy J., Multi-Sponsor, $9,505, "KINEX Multi-Sponsor."

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

ELECTRICAL AND COMPUTER ENGINEERING


Das, Sanjoy, Caragea, Doina (Computing and Information Sciences), and Welch, Stephen M. (Agronomy), National Science Foundation, $69,827, "Cyberinfrastructure Implementation for Genotype to Phenotype Research."
Das, Sanjoy, and Pahwa, Anil, National Science Foundation, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."

Das, Sanjoy, Caragea, Doina (Computing and Information Sciences), Kluitenberg, Gerard J. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $140,774, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

Day, Dwight D., Sandia National Laboratories, $46,376, "Advanced Memory Subsystem Research."

Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $120,131, "Expeditionary Capabilities Consortium."

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

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

Gruenbacher, Don M., Monaco, Gregory E. (Psychology), and Scoglio, Caterina M., National Science Foundation, "GpENI: Great Plains Environment for Network Innovation."


Jones, Byron W., Kansas Technology Enterprise Corporation, $15,798, "Kansas Defense 2010."

Kuhn, William B., Peregrine Semiconductor Corporation, $6,920, "Noise Measurement in Silicon-on-Sapphire IC Process."

Kuhn, William B., Sandia National Laboratories, $85,905, "Phase V Research and Development at Kansas State University."

Kuhn, William B., and Rys, Andrew, US Department of Defense, $75,000, "Extreme Environmental Electronics in Silicon-on-Sapphire."


Kuhn, William B., US Department of Energy, $4,888, "Electrical Testing and Characterization of Thin Film Capacitors on Low Temperature Co-Fired Ceramic (LTCC)."


Miller, Ruth D., Carter, David A. (Kansas Industrial Extension Services), Scoglio, Caterina M. (Kansas Industrial Extension Services), and Snead, Bruce C. (Kansas Industrial Extension Services), US Department of Energy, $163,968, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."


Pahwa, Anil, and Das, Sanjoy, National Science Foundation, $96,519, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."


Rys, Andrew, Russell, Eugene R. (Civil Engineering), and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, $22,250, "A Review of KDOT Overhead Guide Sign Lighting Policy."


Schulz, Noel N., and Gruenbacher, Don M., Kansas State University Foundation, $54,000, "Power Affiliates."

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

Scoglio, Caterina M., Gruenbacher, Don M., and Monaco, Gregory E. (Psychology), National Science Foundation, $17,791, "GpENI: Great Plains Environment for Network Innovation."

Soldan, David L., Gruenbacher, Don M., and Schulz, Noel N., National Science Foundation, $146,036, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."
Warren, Steven, Center for Integration of Medicine & Innovative Technology, $10,000, "CIMIT Student Prize for Primary Healthcare."

Warren, Steven, Bennett, Andrew G. (Mathematics), and Rebello, Nobel S. (Physics), National Science Foundation, $69,482, "Investigating Trajectories of Learning & Transfer of Problem Solving Expertise from Mathematics to Physics to Engineering."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), Hatcliff, John M. (Computing and Information Sciences), Robby, - (Computing and Information Sciences), and Vasserman, Eugene (Computing and Information Sciences), US Department of Health and Human Services, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

**ENGINEERING EXPERIMENT STATION**


Jones, Byron W., Kansas Technology Enterprise Corporation, $25,277, "Kansas Defense 2010."

Jones, Byron W., Unicopiers, $4,000, "Graduate Assistantship - Faryad Darabi Sahneh."

**INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING**

Beck, B. Terry, Peterman, Robert J. (Civil Engineering), and Wu, Chih-Hang, US Department of Transportation, $289,429 (includes $42,129 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

Ben-Arieh, David H., and Wu, Chih-Hang, Children's Mercy Hospital, $23,680, "Improved Deployment of the Tele-Tracking Bedboard Monitoring System."

Easton, Todd W., Digestive Health Specialists, $12,000, "Developing a Scheduling Software Package for Digestive Health Specialists."

Easton, Todd W., US Department of Defense, $37,420, "Part-Time M.S. Program in Industrial Engineering - Summer 2011."

Easton, Todd W., US Department of Defense, $59,989, "Part-Time M.S. Program in Industrial Engineering - Fall 2010."


Lei, Shuting, and Chang, Zenghu (Physics), National Science Foundation, $8,400, "Collaborative Research: Mathematical Modeling and Experimental Study of Femtosecond Laser Machining of High Aspect Ratio Microstructures."

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

Pei, Zhijian, National Science Foundation, $12,000, "Collaborative Research: Fundamental Research on Titanium Drilling with Rotary Ultrasonic Machining."
Pei, Zhijian, and Wang, Donghai (Biological and Agricultural Engineering), National Science Foundation, $5,500, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

Pei, Zhijian, National Science Foundation, $24,998, "Workshop/Collaborative Research: 2011 NSF CAREER Proposal Writing Workshop."

Rys, Malgorzata J., Russell, Eugene R. (Civil Engineering), and Rys, Andrew (Electrical and Computer Engineering), Kansas Department of Transportation, $44,500, "A Review of KDOT Overhead Guide Sign Lighting Policy."

Wu, Chih-Hang, and Ben-Arieh, David H., Children's Mercy Hospital, "Improved Deployment of the Tele-Tracking Bedboard Monitoring System."

Wu, Chih-Hang, Beck, B. Terry, and Peterman, Robert J. (Civil Engineering), US Department of Transportation, $289,429 (includes $42,129 from Cost Share), "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossovers."

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven J., Multisponsor, $272,248, "Institute for Environmental Research Support"


Eckels, Steven J., Dunn, William L. (Mechanical and Nuclear Engineering), Erickson, Larry E. (Center for Hazardous Substance Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $138,613, "Expeditionary Capabilities Consortium."


Eckels, Steven J., Beck, B. Terry (Mechanical and Nuclear Engineering), Hosni, Mohammad H. (Mechanical and Nuclear Engineering), and Sorensen, Christopher M. (Physics), US Department of Energy, $180,436, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

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

Jones, Byron W., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), Boeing Company, $30,000, "Sponsor Research Agreement - KSU Project Agreement."

Jones, Byron W., MITRE Corporation, $4,520, "Aircraft Filter Evaluation."
Jones, Byron W., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), US Department of Transportation, $38,087, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."

Jones, Byron W., and Eckels, Steven J., US Department of Transportation, $52,667, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."


KANSAS INDUSTRIAL EXTENSION SERVICES


Carter, David A., US Environmental Protection Agency, $800, "Marshfield, Missouri Site Visit: Strategic Partnership with the KSU's Pollution Prevention Institute to Support Energy Management Initiative for Water and Wastewater Utilities."

Carter, David A., US Environmental Protection Agency, $25,000, "WSU EFC's Strategic Partnership with the KSU's Pollution Prevention Institute to Support Energy Management Initiative for Water and Wastewater Utilities."


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

Larson, Nancy J., Kansas Department of Health and Environment, $241,000, "Small Business Development Assistance Program 2011-12."

Larson, Nancy J., Riding, Kyle (Civil Engineering), and Stokes, Robert W. (Civil Engineering), Kansas Department of Transportation, $20,000, "Carbon Emissions (Phase 1): Establish Carbon Emissions Baseline for Kansas Department of Transportation (KDOT)."

Larson, Nancy J., Multi-Sponsor, $19,299, "KINEX Multi-Sponsor."

Larson, Nancy J., and Carter, David A., US Environmental Protection Agency, $166,590 (includes $78,322 from industry partners), "Kansas Pollution Prevention Grants 2010-11."


Larson, Nancy J., and Hamel, Ryan J., US Environmental Protection Agency, $68,066 (includes $5,000 from industry match), "Source Reduction Healthcare and Lodging Facilities."

Nelson, Richard G., Langemeier, Michael R. (Agricultural Economics), Staggenborg, Scott A. (Agronomy), and Wang, Donghai (Biological and Agricultural Engineering), US Department of Transportation, $12,190, "Investigation/Simulation of Environmental Impacts and Economic Feasibility for Sweet Sorghum as a Sustainable Bioenergy Crop in South Central United States to help meet EISA Goals."

Scoglio, Caterina M., Carter, David A., Miller, Ruth D. (Electrical and Computer Engineering), and Snead, Bruce C., US Department of Energy, "Resourceful Kansas: A Sustainable Energy and Economic Development Blueprint."


Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, $7,460, "National Radon Program Services."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, $82,961, "National Radon Program Services."

Snead, Bruce C., US Environmental Protection Agency, $9,100 (includes $3,600 from participant support), "Radon in Real Estate Workshops."

Snead, Bruce C., US Environmental Protection Agency, $134,977, "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, $7,500 (includes $2,400 from Course Participants), "Radon Resistant New Construction (RRNC) Workshop for Missouri."

Snead, Bruce C., US Environmental Protection Agency, $15,975, "Radon Training for EPA Headquarters Personnel."

Snead, Bruce C., US Environmental Protection Agency, $20,500 (includes $10,000 from other funding), "Radon Training for the Nebraska State Radon Program 2010-11."

Snead, Bruce C., US Environmental Protection Agency, $5,830, "Regional Radon Training Center."

**MECHANICAL AND NUCLEAR ENGINEERING**


Cai, Liang-Wu, National Aeronautics and Space Administration, $37,335, "Acoustically Tailored Composite Rotocraft Fuselage Panels."


Dunn, William L., Eckels, Steven J. (Institute for Environmental Research), Erickson, Larry E. (Center for Hazardous Substance Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $101,649, "Expeditionary Capabilities Consortium."

Dunn, William L., Abdou, Ali, and Shultis, J. Kenneth, US Nuclear Regulatory Commission, $345,000, "Establishment of Nuclear Engineering Faculty Development and Assistance Program at Kansas State University."


Erickson, Larry E., Dunn, William L., Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $18,482, "Expeditionary Capabilities Consortium."


Geuther, Jeffrey A., Sandia National Laboratories, $11,600, "Voluntary Security Enhancements for the Research and Test Reactor at Kansas State University."

Geuther, Jeffrey A., Sandia National Laboratories, $52,401, "Voluntary Security Enhancements for the Research and Test Reactor at Kansas State University."

Geuther, Jeffrey A., US Department of Energy, $141,218, "Educational and Research Infrastructure Enhancement at the Kansas State University Reactor."


Hosni, Mohammad H., and Reinert, Dana M. (Dean of Human Ecology), US Department of Defense, $10,000, "Sponsorship of the Big 12 Engineering Summit."

Hosni, Mohammad H., Beck, B. Terry, Eckels, Steven J. (Institute for Environmental Research), and Sorensen, Christopher M. (Physics), US Department of Energy, $180,436, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."
Hosni, Mohammad H., US Department of Energy, $5,000, "Nuclear Energy University Programs Fellowship and Scholarship Support."


Hosni, Mohammad H., and Jones, Byron W, (Institute for Environmental Research), US Department of Transportation, $38,087, "Application of Hazard Analysis & Critical Control Points (HACCP) Methods to Disease Transmission on Fomites in Aircraft."


McGregor, Douglas S., Schlumberger Technology Corporation, $100,000, "SiC Materials for Neutron Detectors."


Shultis, J. Kenneth, Abdou, Ali, and Dunn, William L., US Nuclear Regulatory Commission, "Establishment of Nuclear Engineering Faculty Development and Assistance Program at Kansas State University."

Singh, Gurpreet, National Science Foundation, $59,171, "Exploring the Structure, Optical, and Electromechanical Properties of Polymer-derived Si(B) CN-Multiwall Carbon Nanotube Composite Nanowires."

Wang, Youqi, Albany Engineered Composites, Inc., $54,915, "3D Woven Fiber Preform Forming Analysis."

NATIONAL GAS MACHINERY LABORATORY


Jones, Byron W., and Eckels, Steven J. (Institute for Environmental Research), US Department of Transportation, $52,667, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

COLLEGE OF HUMAN ECOLOGY

APPAREL, TEXTILES, AND INTERIOR DESIGN


Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $18,482, "Expeditionary Capabilities Consortium."


DEAN OF HUMAN ECOLOGY

Goff, Briana S., American Military Communities, $15,000, "NISH Hospitality Services Initiative."

Moxley, Virginia M., AG*IDEA, $48,585, "AG*IDEA Lead Institution."

Moxley, Virginia M., Great Plains IDEA Alliance, $247,328, "Great Plains IDEA Lead Institution."


HOSPITALITY MANAGEMENT AND DIETETICS

Canter, Deborah D., US Department of Agriculture, $74,999, "Development of a Web-Based Resource for Dietetic Educators and School Nutrition Professionals."

Kwon, Junehee, and Sauer, Kevin L., US Department of Agriculture, $600,000, "Assessment and Reduction of Produce Food Safety Risks in the School Foodservice System."


Kwon, Junehee, US Department of Agriculture, $7,500, "Implementation of Food Safety Training Program in Residential Child Care Institutions (RCCI) in Kansas."
Roberts, Kevin R., Kwon, Junehee, Sauer, Kevin L., and Shanklin, Carol W. (Dean of Graduate School), US Department of Agriculture, $1,599,981, "Center of Excellence for Food Safety Research in Child Nutrition Program."


HUMAN NUTRITION

Chambers IV, Edgar, Kansas State University Foundation, $2,500, "Multisensory Therapeutic Garden Project (Amanda Rall)."

Haub, Mark D., Penford Food Ingredients Co., $9,768, "Glycemic Testing of Resistant Starch."

Haub, Mark D., The United Sorghum Checkoff Program Board, $55,750, "Metabolic Syndrome - Mitigation through Multi-System Effects of Dietary Exposure to Sorghum Bioactive Compounds."

Haub, Mark D., Aramouni, Fadi M. (Animal Sciences and Industry), and Shi, Yong Cheng (Grain Science and Industry), The United Sorghum Checkoff Program Board, $45,000, "Sorghum as a Super Health Food II. Starch Digestibility and Glycemic Index of Sorghum Based Foods."

Lin, Dingbo, Kansas State University Foundation, $1,200, "Cancer Center Travel Award - Experimental Biology 2011 Annual Meeting."

Lin, Dingbo, Kansas State University Foundation, $1,000, "Wolfberry Bioactive Components Induce Jurkat Cell Apoptosis."

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

Medeiros, Denis M., US Department of Health and Human Services, $220,050, "Kansas Bridges to the Future."

Medeiros, Denis M., US Department of Health and Human Services, $26,914, "Nucleotide- Mediated Foam Cell Formation in Smooth Muscle Cells (Fellowship - Tixieanna Dissmore)."

Procter, Sandra B., Johannes, Elaine M. (School of Family Studies and Human Services), and Peters, Paula (Director of Cooperative Extension), US Department of Agriculture, $118,231, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

Vazquez-Araujo, Laura, Kansas Grain Sorghum Commission, $32,728, "Understanding Needs for Grain Sorghum in Human Food Products from Consumers' Perspectives."

Wang, Weiqun, Kansas State University Foundation, $5,000, "Lunar PIXImus Small Animal Densitometer (GE Medical System) Equipment Award."

Wang, Weiqun, Kansas State University Foundation, $4,594, "Summer Stipend - Soyoung Lim."
Wang, Weiqun, Kansas State University Foundation, $2,000, "Undergraduate Cancer Mentor Award."

Wang, Weiqun, US Department of Health and Human Services, $56,000, "Mechanism of Cancer Prevention by Weight Control."

**SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES**


DeLuccie, Mary L., US Department of Agriculture, $8,409, "Federal Aid in Support of the Child and Adult Care Food Program."


Glasscock, Marlene K., US Department of Agriculture, $1,018,182, "4-H Air Force Military Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, $2,727,273, "4-H Military Partnerships: 4-H Army Youth Development Project."

Glasscock, Marlene K., US Department of Agriculture, $415,418, "4-H Navy Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, $500,000, "Children, Youth & Families at Risk 4-H Military Partnership Program."


Johannes, Elaine M., National 4-H Council, $3,500, "KsBPYD (Kansas Building Partnerships for Youth Development) AYD - Advancing Youth Development Institute."

Johannes, Elaine M., Peters, Paula (Director of Cooperative Extension), and Procter, Sandra B. (Human Nutrition), US Department of Agriculture, $29,558, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

Maddux, Estoria (Esther) M., Kansas Department of Social & Rehabilitation Services, $4,950, "Problem Gambling Mini Grant."

O’Conner, Nancy T., Kansas Health Solutions, LLC, $19,913, "Home Based Family Therapy Training."

O’Conner, Nancy T., US Department of Health and Human Services, $299,965 (includes $12,000 from third party match- Research Team), "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

Sellers, Debra, US Department of Health and Human Services, $34,425, "Kansas Optimizing Health Program (KOHP) Integration to KSRE System."


COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY


Davis, Elizabeth G., and Kenney, Michael J. (Clinical Sciences), Merial Limited, $15,000, "2011 Merial Veterinary Scholars Program."

Davis, Elizabeth G., and Kenney, Michael J., US Department of Health and Human Services, "Short-Term Training Students in Health Professional Schools."

Kenney, Michael J., US Department of Health and Human Services, $34,723, "BRITE Veterinary Student Program."

Kenney, Michael J., and Davis, Elizabeth G., US Department of Health and Human Services, $47,968, "Short-Term Training Students in Health Professional Schools."


Marcus, Daniel C., US Department of Health and Human Services, $2,131,563, "Epithelial Function in Health and Disease."

Musch, Timothy I., and Poole, David C., US Department of Health and Human Services, "Mechanisms of Muscle Microcirculatory Dysfunction in Heart Failure."

Poole, David C., American College of Sports Medicine, $5,000, "Vascular Dysfunction in Heart Failure: Effects of Fish Oil."

Poole, David C., American Heart Association, Midwest Affiliate, $52,000, "Skeletal Muscle Vascular Function in Chronic Heart Failure: Effects of Fish Oil (Steven Copp - Fellow)."

Poole, David C., and Musch, Timothy I., US Department of Health and Human Services, $263,193, "Mechanisms of Muscle Microcirculatory Dysfunction in Heart Failure."

Sang, Yongming, US Department of Agriculture, $71,107, "Development of High Priority Immune Reagents for Food Security."

Schultz, Bruce D., Chen, Jianhan (Biochemistry), and Tomich, John M. (Biochemistry), US Department of Health and Human Services, $29,886, "Model Synthetic Channel Assemblies."
Shi, Jishu, US Department of Health and Human Services, $183,150, "Role of Defensin Receptor Signaling in IL-1beta Release."

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

Troyer, Deryl L., Bossmann, Stefan (Chemistry), and Chikan, Viktor (Chemistry), National Science Foundation, $8,250, "Intelligent Low Toxicity Nanoparticles for Cancer Diagnosis and Treatment."

Troyer, Deryl L., Bossmann, Stefan (Chemistry), and Gadbury, Gary L. (Statistics), US Department of Health and Human Services, $100,280, "Functionalized Bimagnetic Core/Shell Fe/Fe3O4 Stealth Nanoparticles for Diagnosis and Treatment of Cancer."

Troyer, Deryl L., US Department of Health and Human Services, $52,000, "Novel Paradigm using Monocytes with Magnetic Nanoparticles and SN-38 in Melanoma."


Weiss, Mark L., Northeast Kansas Parkinson's Association, $2,000, "2011 Northeast Kansas Parkinson Association Research Fund."

Weiss, Mark L., University of Kansas Medical Center Research Institute, Inc., $140,000, "Modified Stem Cells as Therapeutic Agents in Spinal Cord Injury."

Weiss, Mark L., University of Kansas Medical Center Research Institute, Inc., $10,000, "Service Agreement with University of Kansas Medical Center - Dr. McGuirk."


CLINICAL SCIENCES

Anderson, David E., ABAXIS, Inc., $5,592, "Validation of i-STAT and cTN-1 for Bovine Serum."

Anderson, David E., Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Renter, David G. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

Anderson, David E., Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Renter, David G. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

Anderson, David E., Miesner, Matt D. (Veterinary Medical Teaching Hospital), and White, Bradley J., Intervet/Schering-Plough Animal Health, $75,837, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

Anderson, David E., Apley, Michael D., Lafflin, Shelie L. (Veterinary Medical Teaching Hospital), Larson, Robert L., Miesner, Matt D. (Veterinary Medical Teaching Hospital), Sanderson, Michael W.,
and White, Bradley J., US Department of Agriculture, $99,000, "Food Systems Veterinary Medicine for the 21st Century."


Apley, Michael D., Anderson, David E., Laflin, Shelie L. (Veterinary Medical Teaching Hospital), Larson, Robert L., Miesner, Matt D. (Veterinary Medical Teaching Hospital), Sanderson, Michael W., and White, Bradley J., US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

Coetzee, Johann F., and Blasi, Dale A. (Animal Sciences and Industry), Bayer Corporation, "Services Agreement."

Coetzee, Johann F., Grauer, Gregory F., Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Stenske, Katherine, and Zurek, Ludek (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

Davis, Elizabeth G., Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), and Stenske, Katherine, Morris Animal Foundation, $2,000, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."

Davis, Elizabeth G., and Wilkerson, Melinda (Diagnostic Medicine/Pathobiology), Pfizer, Inc., $216,636, "Research Protocols Agreement - Immune Responses in Healthy Foals following Vaccination: Characterization of Immune Activation in First Year of Life, when Vaccination Protocol is Initiated at 90 Days of Age."

Grauer, Gregory F., IDEXX Laboratories, Inc., $122,599, "Serum and Urine Biomarker Study: Predicting/Identifying Early CKD."

Grauer, Gregory F., Coetzee, Johann F., Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Stenske, Katherine, and Zurek, Ludek (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

Grauer, Gregory F., Schermerhorn, Thomas, and Smee, Nicole (Veterinary Medical Teaching Hospital), Vetoquinol USA, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

Higginbotham, Mary Lynn, McCaw, Dudley, and McMurphy, Rose M., BioMed Valley Discoveries, Inc., "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."


Kenney, Michael J., and Davis, Elizabeth G. (Anatomy and Physiology), Merial Limited, "2011 Merial Veterinary Scholars Program."

Larson, Robert L., Anderson, David E., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Renter, David G. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."
Larson, Robert L., Anderson, David E., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Renter, David G. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Renter, David G. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

Larson, Robert L., Anderson, David E., Apley, Michael D., Laflin, Shelie L. (Veterinary Medical Teaching Hospital), Miesner, Matt D. (Veterinary Medical Teaching Hospital), Sanderson, Michael W., and White, Bradley J., US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."


Lillich, James D., US Department of Health and Human Services, $52,000, "Novel Mechanisms of NSAID-induced GI Toxicity."

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

McCaw, Dudley, Higginbotham, Mary Lynn, and McMurphy, Rose M., BioMed Valley Discoveries, Inc., $105,728, "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."

McMurphy, Rose M., Higginbotham, Mary Lynn, and McCaw, Dudley, BioMed Valley Discoveries, Inc., "A Phase II, Open-Label, Non-Randomized, Single-Dose Study to Evaluate the Safety and Effectiveness of Clostridium novyi-NT Spores in Spontaneous Canine Tumors."


Rush, Bonnie R., Ross University, $324,648, "Clinical Training for Ross University."

Sanderson, Michael W., US Department of Agriculture, $59,568, "Direct and Indirect Contacts among Livestock Operations in Colorado, Kansas, and New Mexico as Potential Transmitters of Foot and Mouth Disease."

Sanderson, Michael W., Anderson, David E., Apley, Michael D., Laflin, Shelie L. (Veterinary Medical Teaching Hospital), Larson, Robert L., Miesner, Matt D. (Veterinary Medical Teaching Hospital), and White, Bradley J., US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

Schermerhorn, Thomas, Grauer, Gregory F., and Smee, Nicole (Veterinary Medical Teaching Hospital), Vetoquinol USA, $50,000, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

Stenske, Katherine, Coetzee, Johann F., Grauer, Gregory F., Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), and Zurek, Luděk (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, $38,068, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."
Stenske, Katherine, Davis, Elizabeth G., and Narayanan, Sanjeev Kumar (Diagnostic Medicine/Pathobiology), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."


White, Bradley J., Anderson, David E., Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), Biomune Company, $80,327, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

White, Bradley J., Anderson, David E., Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), Biomune Company, $110,250, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

White, Bradley J., Larson, Robert L., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), Biomune Company, $124,762, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

White, Bradley J., Anderson, David E., and Miesner, Matt D. (Veterinary Medical Teaching Hospital), Intervet/Schering-Plough Animal Health, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

White, Bradley J., Anderson, David E., Apley, Michael D., Laflin, Shelie L. (Veterinary Medical Teaching Hospital), Larson, Robert L., Miesner, Matt D. (Veterinary Medical Teaching Hospital), and Sanderson, Michael W., US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

DEAN OF VETERINARY MEDICAL CENTER


Richardson, Ralph C., Kansas State University Foundation, $177,879, "Professorships/Chairs."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY


Anderson, Gary A., Nebraska, State of, $25,000, "Nebraska Rabies."

Bai, Jianfa, Anderson, Joseph W. (Veterinary Diagnostic Laboratory), and Hesse, Richard, Pfizer, Inc., "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."

Chang, Kyeong-Ok, and Hua, Duy H. (Chemistry), US Department of Health and Human Services, $19,240, "Counteraction of Alzheimer's Disease."
Chang, Kyeong-Ok, and Hua, Duy H. (Chemistry), US Department of Health and Human Services, $552,162, "Development of Novel Therapeutic Agents for Norovirus Infection."


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

Dritz, Steven S., DeRouche, Joel M. (Animal Sciences and Industry), Goodband, Robert D. (Animal Sciences and Industry), Nelssen, Jim L. (Animal Sciences and Industry), and Tokach, Michael D. (Animal Sciences and Industry), Ajinomoto Heartland LLC, "Tryptophan to Lysine Ration for Nursery and Finisher Pigs."

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

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


Dritz, Steven S., DeRouche, Joel M. (Animal Sciences and Industry), Goodband, Robert D. (Animal Sciences and Industry), Nelssen, Jim L. (Animal Sciences and Industry), and Tokach, Michael D. (Animal Sciences and Industry), Purco, $28,000, "Purco Project."


Dryden, Michael W., Bayer Corporation, $108,457, "Efficacy of Selamection and Imidacloprid-Moxidection Combo Spot-Ons Against C. felis Infesting Cats."

Dryden, Michael W., and Payne, Patricia A., Ceva Sante Animale, $64,574, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%)/Permethrin (36.08% w/w) (Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult Rhipicephalus Sanguineus on Dogs."

Dryden, Michael W., and Payne, Patricia A., Ceva Sante Animale, $64,574, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44% w/w)/Permethrin (36.08% w/w) (Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult Amblyomma Americanum on Dogs."

Dryden, Michael W., Merial Corporation, $87,307, "A Study to Evaluate the Acaricidal Efficacy of a Single Topical Treatment with ML-3,481,564 against Dermacentor Variabilis on Dogs."


Dryden, Michael W., and Payne, Patricia A., Novartis Animal Health Inc., $70,111, "Evaluation of the Ovicidal Activity of Lufenuron and Spinosad on Fleas' Eggs from Treated Dogs."


Ganta, Roman Reddy R., US Department of Health and Human Services, $357,737, "Vector and Host Contributions to the Regulation of E. chaffeensis Gene Expression."

Henry, Steven C., Hesse, Richard, Nietfeld, Jerome C. (Veterinary Diagnostic Laboratory), and Rowland, Raymond R. R., Pfizer, Inc., "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Syndrome."

Hesse, Richard, and Rowland, Raymond R. R., Boehringer Ingelheim Vetmedica, Inc., $50,000, "Porcine Teschovirus/enterovirus Model Development."
Hesse, Richard, Henry, Steven C., Nietfeld, Jerome C. (Veterinary Diagnostic Laboratory), and Rowland, Raymond R. R., Pfizer, Inc., $213,600, "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Hesse, Richard, Anderson, Joseph W. (Veterinary Diagnostic Laboratory), and Bai, Jianfa, Pfizer, Inc., $240,543, "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."


Kastner, Justin J., Getty, Kelly J. K. (Food Science Institute), Kastner, Curtis L. (Food Science Institute), and Nutsch, Abbey L. (Animal Sciences and Industry), US Department of Homeland Security, $117,689, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

Ma, Wenjun, Richt, Juergen, and Wyatt, Carol R., European Commission, $642,974, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

Ma, Wenjun, and Richt, Juergen, Hemispherx Biopharma, Inc., $13,640, "Pandemic H1N1 in vitro Study with Hemispherx."

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

Mosier, Derek A., Anderson, David E. (Clinical Sciences), Larson, Robert L. (Clinical Sciences), Renter, David G., and White, Bradley J. (Clinical Sciences), Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge.”

Mosier, Derek A., Anderson, David E. (Clinical Sciences), Larson, Robert L. (Clinical Sciences), Renter, David G., and White, Bradley J. (Clinical Sciences), Biomune Company, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

Mosier, Derek A., Larson, Robert L. (Clinical Sciences), Renter, David G., and White, Bradley J. (Clinical Sciences), Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."


Narayanan, Sanjeevkumar, Kansas State University Research Foundation, $20,000, "Immunogenecity and Protective Effects of Recombinant Adhesin and Leukotoxin of Fusobacterium Necrophorum in Mice."

Narayanan, Sanjeevkumar, Coetzee, Johann F. (Clinical Sciences), Grauer, Gregory F. (Clinical Sciences), Stenske, Katherine (Clinical Sciences), and Zurek, Ludek, Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."
Narayanan, Sanjeevkumar, Davis, Elizabeth G. (Clinical Sciences), and Stenske, Katherine (Clinical Sciences), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs (Veterinary Student Scholar: Megan Lawrence)."

Nguyen, Thu A., US Department of Health and Human Services, $370,000, "Increasing Efficacy of Antineoplastic Drugs with Gap Junction Enhancers."

Nguyen, Thu A., Hua, Duy H. (Chemistry), and Li, Jun (Chemistry), US Department of Health and Human Services, $71,040, "Nanoelectrode Array Based Electronics for Rapid Profiling of Cancerous Enzymes."

Nguyen, Thu A., and Hua, Duy H. (Chemistry), US Department of Health and Human Services, $12,929, "The Molecular Target of Gap Junction Enhancers."


Payne, Patricia A., and Dryden, Michael W., Ceva Sante Animale, "Evaluation of a Dinetefuran (4.95% w/w)/Pyriproxyfen (0.44%)/Permethrin (36.08% w/w) ( Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult Rhipicephalus Sanguineus on Dogs."

Payne, Patricia A., and Dryden, Michael W., Ceva Sante Animale, "Evaluation of a Dinotefuran (4.95% w/w)/Pyriproxyfen (0.44%)/Permethrin (36.08% w/w) ( Vectra 3D® Ceva) Combination Topical Spot-On to Repel and Kill Adult Amblyomma Americanum on Dogs."


Payne, Patricia A., and Dryden, Michael W., Novartis Animal Health Inc., "Evaluation of the Ovicidal Activity of Lufenuron and Spinosad on Fleas' Eggs from Treated Dogs."

Renter, David G., Anderson, David E. (Clinical Sciences), Larson, Robert L. (Clinical Sciences), Mosier, Derek A., and White, Bradley J. (Clinical Sciences), Biomune Company, "Evaluation of 3 Doses of Mycoplasma Bovis Bacterin to Mitigate Disease Following Disease Challenge."

Renter, David G., Anderson, David E. (Clinical Sciences), Larson, Robert L. (Clinical Sciences), Mosier, Derek A., and White, Bradley J. (Clinical Sciences), Biomune Company, $36,750, "Mycoplasma Bovis Vaccine Refinement: Evaluation of Respiratory and Arthritis Control."

Renter, David G., Larson, Robert L. (Clinical Sciences), Mosier, Derek A., and White, Bradley J. (Clinical Sciences), Biomune Company, "Refinement of a Mycoplasma Bovis Respiratory Challenge Model in Calves."

Richt, Juergen, Ma, Wenjun, and Wyatt, Carol R., European Commission, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

Richt, Juergen, European Commission, $7,577, "ORBIVAC."

Richt, Juergen, and Ma, Wenjun, Hemispherx Biopharma, Inc., "Pandemic H1N1 in vitro Study with Hemispherx."
Richt, Juergen, and Rowland, Raymond R. R., Kansas Bioscience Authority, $4,000,000, "Kansas Bioscience Matching Fund Program."

Richt, Juergen, US Department of Health and Human Services, $185,000, "Molecular and Biological Characterization of Pandemic Flu: Role of HA and NA Proteins in Host Tropism, Pathogenesis and Reassortment."

Richt, Juergen, US Department of Health and Human Services, $583,522, "NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS)."

Richt, Juergen, and Ma, Wenjun, US Department of Health and Human Services, $15,000, "NIAID Training for Dr. I Gusti Ngurah Mahardika."


Rowland, Raymond R. R., and Hesse, Richard, Boehringer Ingelheim Vetmedica, Inc., "Porcine Teschovirus/enterovirus Model Development."

Rowland, Raymond R. R., and Richt, Juergen, Kansas Bioscience Authority, "Kansas Bioscience Matching Fund Program."

Rowland, Raymond R. R., National Pork Board, $299,842, "PRRS Host Genetics Consortium: A Proposal to Continue Consortium Work to Study the Role of Host Genetics and Resistance to PRRSV - Year 3."


Van Der Merwe, Deon, and Datta, Saugata (Geology), US Department of the Interior, $11,970, "Pariette Wetlands Salinity/Selenium Study."

Wilkerson, Melinda, and Davis, Elizabeth G. (Clinical Sciences), Pfizer, Inc., "Research Protocols Agreement - Immune Responses in Healthy Foals following Vaccination: Characterization of Immune Activation in First Year of Life, when Vaccination Protocol is Initiated at 90 Days of Age."

Wyatt, Carol R., Ma, Wenjun, and Richt, Juergen, European Commission, "Homosubtypic and Heterosubtypic Immunity to Influenza Viruses in Pig Model."

Zurek, Ludek, Coetzee, Johann F., (Clinical Sciences), Grauer, Gregory F., (Clinical Sciences), Narayanan, Sanjeevkumar, and Stenske, Katherine (Clinical Sciences), Morris Animal Foundation, "Effect of Cefovecin on the Fecal Flora of Healthy Dogs."

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

**VETERINARY DIAGNOSTIC LABORATORY**


Anderson, Gary A., US Department of Agriculture, $50,000, "NAHLN: KS."


Anderson, Gary A., Burton, Kenneth R., (National Agricultural Biosecurity Center), Hesse, Richard (Diagnostic Medicine/Pathobiology), Ma, Wenjun (Diagnostic Medicine/Pathobiology), Richt, Juergen (Diagnostic Medicine/Pathobiology), Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), and Vanier, Martha A. (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

Anderson, Joseph W., Bai, Jianfa (Diagnostic Medicine/Pathobiology), and Hesse, Richard (Diagnostic Medicine/Pathobiology), Pfizer, Inc., "Research Protocols Agreement - Genetic Diversity of Bovine Group A Rotaviruses."

Hanlon, Cathleen A., Pfizer, Inc., $15,205, "Quantitation of Rabies Virus Neutralizing Antibody (RVNA) Levels by the Rapid Fluorescent Focus Inhibition Test (RFFIT) per Kansas State University Rabies Laboratory SOP."

Nietfeld, Jerome C., Henry, Steven C. (Diagnostic Medicine/Pathobiology), Hesse, Richard (Diagnostic Medicine/Pathobiology), and Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), Pfizer, Inc., "Research Protocols Agreement - Cachexia (Chomping Disease) in Weaned Pigs: A New Disease Syndrome."

**VETERINARY MEDICAL TEACHING HOSPITAL**

Arck, Shirley T., University of Kansas, $10,400, "Training of Pharmacy D. Students."
Fingland, Roger B., City of Manhattan, KS, $11,400, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

Fingland, Roger B., Friends of the Sunset Zoo, $2,000, "Sunset Zoo Internship Program."

Laflin, Shelie L., Anderson, David E. (Clinical Sciences), Apley, Michael D. (Clinical Sciences), Larson, Robert L. (Clinical Sciences), Miesner, Matt D., Sanderson, Michael W. (Clinical Sciences), and White, Bradley J. (Clinical Sciences), US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

Miesner, Matt D., Anderson, David E. (Clinical Sciences), and White, Bradley J. (Clinical Sciences), Intervet/Schering-Plough Animal Health, "Effects of Ambient Temperature and LPS on Behavior and Biothermal Variation in Calves."

Miesner, Matt D., Anderson, David E. (Clinical Sciences), Apley, Michael D. (Clinical Sciences), Laflin, Shelie L., Larson, Robert L. (Clinical Sciences), Sanderson, Michael W. (Clinical Sciences), and White, Bradley J. (Clinical Sciences), US Department of Agriculture, "Food Systems Veterinary Medicine for the 21st Century."

Smee, Nicole, Grauer, Gregory F. (Clinical Sciences), and Schermerhorn, Thomas (Clinical Sciences), Vetoquinol USA, "Investigations into the Effect of Cranberry Extract on Bacterial Adhesion to Canine MDCK Uroepithelial Cells."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURAL ECONOMICS

Leatherman, John C., US Environmental Protection Agency, $45,696 (includes $9,150 from BMP members, and $5,000 from CCD's and SLT members), "Upper Neosho Implementation."

AGRICULTURE AND NATURAL RESOURCES

Kahl, Daniel W., and Graham, Steven M. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), Kansas Department of Health and Environment, "Middle Kansas WRAPS PRIDE."

Kahl, Daniel W., and Devlin, Daniel L. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), US Environmental Protection Agency, "Kansas PRIDE Program - Tuttle Creek Watershed."

Murphy, James P., and Ebert, Kerri L. (Biological and Agricultural Engineering), US Department of Agriculture, $51,000, "2011 Kansas SARE Professional Development Program."

Murphy, James P., US Department of Agriculture, $312,642, "Kansas Agricultural Mediation Service."

Murphy, James P., US Department of Agriculture, $139,569, "Renewable Resources Extension Act Program."

AGRONOMY


**BIOLOGICAL AND AGRICULTURAL ENGINEERING**

Rogers, Danny H., Kansas Water Office, $25,000, "Technical Assistance to Water Users: K-State Mobile Irrigation Lab."

**COUNTY AGENTS - METROPOLITAN SECTOR**

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

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

**COUNTY AGENTS-NORTHWEST SECTOR**

Dickman, Holly, Boyer, Cheryl R. (Horticulture, Forestry and Recreation Resources), Buschman, Larry L. (Entomology), Cloyd, Raymond A. (Entomology), DeWolf, Erick D. (Plant Pathology), Kennelly, Megan (Plant Pathology), McCormack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L. (Entomology), Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips, Thomas W. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S. (Horticulture, Forestry and Recreation Resources), and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, "Extension IPM Coordination DIrector of Cooperative Extension Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., $98,020, "Kansas Agriculture and Rural Leadership, Inc." 


Peters, Paula, Johannes, Elaine M. (School of Family Studies and Human Services), and Procter, Sandra B. (Human Nutrition), US Department of Agriculture, $443,368, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

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

FOUR-H YOUTH DEVELOPMENT

Gerhard, Gary W., Noyce Foundation, $1,500, "Kansas 4-H Science Academy Basic Implementation Grant."

Gerhard, Gary W., Noyce Foundation, $5,000, "Kansas 4-H Science Academy Expanded Implementation Grant."

Gerhard, Gary W., US Department of Agriculture, $140,000, "Empowering Kansas Youth to Improve Their Physical Health."

Gerhard, Gary W., US Department of Justice, $82,000, "Kansas 4-H Tech Wizards: 4-H National Mentoring Program."

HUMAN NUTRITION

Hudson, Karen S., and Peters, Paula (Director of Cooperative Extension), US Department of Agriculture, $3,421,868 (includes $1,073,773 from in-kind support), "Kansas Food Assistance Nutrition Education Plan."

KANSAS FOREST SERVICE

Atchison, Robert L., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and Presley, DeAnn R. (Agronomy), US Department of the Interior, $18,467, "FY 2011 Kansas Water Resources Research Institute."

Atchison, Robert L., and Beck, William J., US Environmental Protection Agency, $30,000, "Riparian Forest Management and Coordination Technical Assistance."


Biles, Larry E., State Conservation Commission, $40,000, "Riparian Forest Buffer Restoration."

Biles, Larry E., US Department of Agriculture, $335,423, "Consolidated Payment Grant 2010."

Biles, Larry E., US Department of Agriculture, $70,000, "NRCS Technical Service MOU 2008."
KANSAS CENTER FOR AGRICULTURAL RESOURCES AND THE ENVIRONMENT / KANSAS WATER RESOURCE RESEARCH INSTITUTE

Graham, Steven M., and Kahl, Daniel W. (Agriculture and Natural Resources), Kansas Department of Health and Environment, $17,500, "Middle Kansas WRAPS PRIDE."

NORTHEAST AREA OFFICE


Duncan, Stewart R., Martin, Kent L. (Southwest Area Office), Ruiz Diaz Suarez, Dorivar A. (Agronomy), and Shoup, Douglas E. (Southeast Area Office), Kansas Soybean Commission, $3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

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

Duncan, Stewart R., and Shoup, Douglas E. (Southeast Area Office), Kansas Soybean Commission, $5,000, "Soybean Response to Fungicides and Insecticides."

Duncan, Stewart R., Multi-Sponsor, $400, "Crop and Soils Multisponsor Programs."

NORTHWEST AREA OFFICE


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., 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., Currie, John A. (Southwest Research Extension Center), Dumler, Troy (Southwest Area Office), Maddux, Larry D. (Agronomy), Martin, Kent L. (Southwest Area Office), Peterson, Dallas E. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), Shoup, Douglas E. (Southeast Area Office), Stahlman, Phillip W. (Agricultural Research Center-Hays), and Thompson, Curtis R. (Agronomy), Kansas Grain Sorghum Commission, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."
Olson, Brian L., Rice, Charles W. (Agronomy), and Roozeboom, Kraig L. (Agronomy), Kansas Soybean Commission, $3,553, "Evaluation of Soybean Inoculant Products and Techniques to Address Soybean Nodulation Problems in Kansas."

Olson, Brian L., Multi-Sponsor, $27,700, "Field Evaluation for Various Industry Products."

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

SOUTHEAST AREA OFFICE

Shoup, Douglas E., Currie, John A. (Southwest Research Extension Center), Dumler, Troy (Southwest Area Office), Maddux, Larry D. (Agronomy), Martin, Kent L. (Southwest Area Office), Olson, Brian L. (Northwest Area Office), Peterson, Dallas E. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), Stahlman, Phillip W. (Agricultural Research Center-Hays), and Thompson, Curtis R. (Agronomy), Kansas Grain Sorghum Commission, $3,000, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

Shoup, Douglas E., Duncan, Stewart R. (Northeast Area Office), Martin, Kent L. (Southwest Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, $3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."


Shoup, Douglas E., and Duncan, Stewart R. (Northeast Area Office), Kansas Soybean Commission, $5,000, "Soybean Response to Fungicides and Insecticides."

Shoup, Douglas E., Multi-Sponsor, $26,585, "Weed Science Research at Southeast Area Extension Office."

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

SOUTHWEST AREA OFFICE

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

Dumler, Troy, Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsces & the Env / Ks Water Rsrce Rsrch Inst), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research
Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Lamm, Freddie R.** (Northwest Research Extension Center), **Pagadala, P.V. Vara** (Agronomy), **Rogers, Danny H.** (Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Steward, David R.** (Civil Engineering), US Department of Agriculture, $4,235, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Martin, Kent L., Currie, John A.** (Southwest Research Extension Center), **Dumler, Troy, Maddux, Larry D.** (Agronomy), **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Shoup, Douglas E.** (Southeast Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), Kansas Grain Sorghum Commission, $4,000, "Managing Difficult Weeds with a Potential New Herbicide: Huskie."

**Martin, Kent L., Duncan, Stewart R.** (Northeast Area Office), **Ruiz Diaz Suarez, Dorivar A.** (Agronomy), and **Shoup, Douglas E.** (Southeast Area Office), Kansas Soybean Commission, $3,191, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

**Martin, Kent L.,** Multi-Sponsor, $3,284, "Chemical Evaluation."

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

**Sloderbeck, Phillip E.**, US Department of Agriculture, $7,000, "Technology Transfer Program for Integrated Pest Management of Potato Psyllid to Minimize the Incidence of Zebra Chip in Potatoes."

**OFFICE OF THE PRESIDENT**

**AUDITORIUM**

**Holmberg, Todd**, National Foundation on the Arts and the Humanities, $430,286 (includes $425,000 from outside contributor support), "McCain Auditorium Operational Support, 2011."

**BEACH ART MUSEUM**

**Render, Lorne E.**, Kansas Arts Commission, $1,000, "George Kren Photographs Exhibition."


**Schlageck, Kathrine W.**, National Foundation on the Arts and the Humanities, $20,574 (includes $4,574 from in-kind support), "Beach Museum of Art Educational Programming, FY2011."

**OFFICE OF THE PROVOST**

**CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT**

**Procter, David E.**, Kettering Foundation, $14,000, "Midwest Democracy Project."

**Procter, David E.**, Kettering Foundation, $10,000, "Moderator Guidebook."

**Procter, David E.**, Kettering Foundation, $14,000, "Moderator Training Survey."
Procter, David E., Kettering Foundation, $5,000, "New Center Faculty."

Steichen, Ethel M., Heartland Foundation, $26,156, "Heartland Foundation Evaluation Continuation - Years 4 - 6."

Steichen, Ethel M., Interactivity Foundation, $24,259, "Retrospective - Pre Method."

DEAN OF CONTINUING EDUCATION

Newhouse, Barbara S., US Department of Education, $225,000, "Assessment Literacy Project."

DEAN OF GRADUATE SCHOOL

Lease, Kevin B., National Aeronautics and Space Administration, $29,972, "Kansas Space Grant Consortium."


Shanklin, Carol W., Kwon, Junehee (Hospitality Management and Dietetics), Roberts, Kevin R. (Hospitality Management and Dietetics), and Sauer, Kevin L. (Hospitality Management and Dietetics), US Department of Agriculture, "Center of Excellence for Food Safety Research in Child Nutrition Program."


INTERNATIONAL PROGRAMS

Michie, Barry H., US Department of Education, $89,554, "South Asia Project."

Wood, Mary, NCN Institute, $11,660, "English Training Sponsorship."

LIBRARY


OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT

Gordon, Myra E., and Ehie, Ike C. (Management), British American Tobacco Plc., $34,022, "Advancing Economic Development through Strengthening the MBA Programs in Nigeria."

OFFICE OF THE PROVOST

Champion, Benjamin, Devlin, Daniel L. (Agronomy), and Rice, Charles W. (Agronomy), National Science Foundation, $1,229,101, "CCEP-I: Central Great Plains Climate Change Education Partnership."

Mason, April, US Department of Defense, $1,957,520, "Kansas State University (KSU) Graduate Degree Program Development and Implementation for CGSC Leadership and Security Studies: Enhance Cooperative Degree Program in History."
Trewyn, R. W., Kramer, Bradley A. (Advanced Manufacturing Institute), Madl, Ronald L. (Grain Science and Industry), Richardson, Daniel C. (K-State Olathe Innovation Campus), and Tucker, Jeffrey W. (Advanced Manufacturing Institute), National Science Foundation, "Kansas Bioprocessing Science and Engineering Center."

SCHOOL OF LEADERSHIP STUDIES

Lindsey, Matthew, Corporation for National and Community Service, $70,400, "Careers for the Common Good."

Lindsey, Matthew, Corporation for National and Community Service, $8,333 (includes $5,833 from mini-grant recipients), "Kansas Campus Compact MLK Collegiate Challenge."

Lindsey, Matthew, Corporation for National and Community Service, $26,056, "Midwest Campus Compact STEM Consortium."

Tolar, Mary H., Corporation for National and Community Service, $19,999, "Get Hands On."

Tolar, Mary H., Soaring with Eagles Foundation, $32,000, "Soaring with Eagles Foundation Curriculum Pilot."

VICE PRESIDENT FOR COMMUNICATIONS AND MARKETING

Nelson, Robert F., US Department of Commerce, $249,000, "Construction Project."

SALINA COLLEGE OF TECHNOLOGY AND AVIATION

SALINA APPLIED AVIATION RESEARCH CENTER

Barnhart, Richard K., and Shappee, Eric J. (Salina Aviation), MBDA Incorporated, $2,500, "UAS Facilities and/or Services License Agreement-MBDA."

Barnhart, Richard K., and Shappee, Eric J., University of Colorado, $650, "UAS Facilities and/or Services License Agreement-CU."

Barnhart, Richard K., and Shappee, Eric J., University of Kansas Center for Research, Inc., $500, "UAS Facilities and/or Services License Agreement-KUCR."


Shappee, Eric J., and Barnhart, Richard K., University of Colorado, "UAS Facilities and/or Services License Agreement-CU."

Shappee, Eric J., and Barnhart, Richard K., University of Kansas Center for Research, Inc., "UAS Facilities and/or Services License Agreement-KUCR."

SALINA ARTS, SCIENCE AND BUSINESS


SALINA AVIATION


Shappee, Eric J., and Barnhart, Richard K. (Salina Applied Aviation Research Center), MBDA Incorporated, "UAS Facilities and/or Services License Agreement-MBDA."

SALINA ENGINEERING TECHNOLOGY


VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

KSU POLICE DEPARTMENT

Stubbings, Donald C., Kansas Department of Revenue, $5,097, "Underage Drinking at KSU Football."

Stubbings, Donald C., Kansas Department of Transportation, $2,000, "Special Traffic Enforcement Program (STEP)."

VICE PRESIDENT FOR RESEARCH

BIOTECHNOLOGY DESIGN LABORATORY

Tomich, John M., Multisponsor, $50,004.68, "Biotechnology Laboratory Support"

ELECTRONIC DESIGN LABORATORY

Sobering, Timothy J., Multisponsor, $139,083.77, "Electronic Design Laboratory Support"

BIOSECURITY RESEARCH INSTITUTE


Rusk, John S., US Department of Agriculture, $320,990, "Research of Arthropod - Vectored Diseases of Livestock."

K-STATE OLATHE INNOVATION CAMPUS

NATIONAL AGRICULTURAL BIOSECURITY CENTER


Beardsley, Craig A., US Department of Defense, $105,000, "Kansas National Guard - Afghan Agriculture Team Training Program - No. 3."


Burton, Kenneth R., Anderson, Gary A. (Veterinary Diagnostic Laboratory), Hesse, Richard (Diagnostic Medicine/Pathobiology), Ma, Wenjun (Diagnostic Medicine/Pathobiology), Richt, Juergen (Diagnostic Medicine/Pathobiology), Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), and Vanier, Martha A., US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."


Vanier, Martha A., US Department of Defense, $4,720,000, "Infrastructure Support for the KSU Biosecurity Research Institute Facility."

Vanier, Martha A., Anderson, Gary A. (Veterinary Diagnostic Laboratory), Burton, Kenneth R., Hesse, Richard (Diagnostic Medicine/Pathobiology), Ma, Wenjun (Diagnostic Medicine/Pathobiology), Richt, Juergen (Diagnostic Medicine/Pathobiology), and Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."


OFFICE OF RESEARCH AND SPONSORED PROGRAMS

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

VICE PRESIDENT ELECTRONICS DESIGN LABORATORY

Taylor, Russell D., Honeywell Federal Manufacturing & Technologies, LLC, $94,809, "Electro-Optical Data Logger Development."
VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

EDUCATIONAL AND PERSONAL DEVELOPMENT

Greene, Kathleen V., Multi-Sponsor, $1,495, "Ronald E. McNair Post Baccalaureate Achievement Program - Travel."

Greene, Kathleen V., National Science Foundation, $20,310, "McNair Scholars Program."

Greene, Kathleen V., US Department of Education, $252,000, "Kansas State University McNair Scholars Program."


Lott, Cari D., US Department of Agriculture, $4,988, "Kansas State University Upward Bound Program - Salina Summer 2010 Food Service Program."

Lynch, Michael L., Kauffman Scholars, Inc., $92,204, "Campus Residential Institutes for Kauffman Scholars - 2010."


Turner, Margaret A., US Department of Agriculture, $5,233, "Kansas State University 2010 Upward Bound Math & Science Program Summer Food Service Program."

Turner, Margaret A., US Department of Agriculture, $6,497, "Kansas State University 2010 Upward Bound Program Summer Food Service Program."

Turner, Margaret A., US Department of Education, $414,545, "Kansas State University Upward Bound Project."


KSU CHILD DEVELOPMENT CENTER, INC.

Ring, Debra J., National Association of Child Care Resource & Referral Agencies, $12,717, "After School Grant - Enhancing Childhood Quality."

Ring, Debra J., US Army, $34,500, "Child Development Center Quality Improvement Plan."
Ring, Debra J., US Department of Agriculture, $82,203, "Child and Adult Care Food Program - Jardine Site."

UNIVERSITY COUNSELING SERVICES

Arck Jr, William, City of Manhattan, KS, $37,000, "Youth Oriented Alcohol Abuse Prevention Program."

VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

Bosco, Pat J., Conoco, Inc., $15,000, "ConocoPhillips SPIRIT Scholars Administration."

Bosco, Pat J., Kansas State University Foundation, $54,957, "Military Affairs Fund."
FACULTY DEVELOPMENT AWARDS

Spring 2010

Ben-Arieh, David H, Industrial and Manufacturing Systems Engineering, $500; Attend Industrial Engineering Research conference held in Mexico

Berry, Vikas, Chemical Engineering, $2,000; Present "Chemical and Mechanical Manipulation of Graphene for Biosensors and Quantum Devices" at the Recent Advances in Graphene and Related Materials conference held in Singapore

Betz, Emma, Modern Languages, $2,200; Present "Reported speech in different varieties of German: Marking sequential boundaries through syntactic pivot constructions" as part of the panel "Pivot Constructions in Talk-in-Interaction" and "Doing relationship work in the face of a problematic act"

Clem, Rollie J, Biology, $1,200; Present at the Society for Invertebrate Pathology meeting held in Turkey

Cochran, Mary L, Music, $1,500; Present "Overcoming Performance Anxiety" at the International British Flute Society's Convention held in England

Datta, Saugata, Geology, $500; Attend the International Congress on Arsenic in the Environment held in Taiwan

Dayton, Timothy A, English, $600; Present "The Bigness of Cannon: Modernism, Canon Revision, and the First World War" at the VII Historical Materialism conference held in London

Esmaeily, Asadollah, Civil Engineering, $2,000; Present at the International Symposium on Life-Cycle Performance of Bridges and Structures held in China and Visit Hunan University Structural Laboratory

Hoag, Linda A, School of Family Studies and Human Services, $1,000; Present "Integrating Pragmatic Theory and Empirical Evidence into Utterance-Based System Design" at the International Society for Augmentative and Alternative Communication conference held in Spain

Hossain, Mustaque A, Civil Engineering, $1,000; Present 4 papers at the XI International conference on Asphalt Pavements held in Japan

Hunt, Daniel W, Art, $1,000; Co-Chair at the International Conference on Cast Iron Art held in Wales

Jumpponen, Ari M, Biology, $1,100; Present "Living on the edges: development of microbial communities and their functional attributes during early primary succession" at the International Mycological Congress held in the United Kingdom

Kanost, Laura M, Modern Languages, $1,200; Present "Service Learning in a Conversation Course in Manhattan, Kansas: Rationale, Methods, Reactions, and Challenges" at the American Association of Teachers of Spanish and Portuguese Conference held in Mexico
Martinez-Ortiz, Maria T, Modern Languages, $1,500; Present "The Mexican Screenplay and Women Writers: A Cultural Analysis" at the Screenwriting - History, Theory, and Practice Conference held in Denmark

Matlock, Wendy A, English, $1,500; Present "Art and Order in Lydgate's The Debate of the Horse, the Goose, and the Sheep" at the Biennial Congress of the New Chaucer Society held in Italy

McCrea, Heather L, History, $2,000; Present "Reunion/Conference of Mexican, U.S. and Canadian Historians of Mexico" at the Reunion of Historians of Mexico held in Mexico

Muturi, Nancy W, School of Journalism and Mass Communications, $2,000; Present "Faith-Based Approach to Health and Behavior Change Communication: Potential and Challenges for Rural Communities in Kenya" and "Community-Based Participatory Approach to Health Literacy and HIV/AIDS Prevention: Evaluating the Service Learning Com"

Mwangi, Sam, School of Journalism and Mass Communications, $2,000; Present "Communication Technologies and Citizen Engagement: A Case Study of the Innovation Incubator Project" and "Media and Citizen Engagement Projects: A Global Overview" at the International Association of Media and Communication Research held in Portugal

Park, Yoonseong, Entomology, $1,000; Present "Novel Insecticidal Targets; Neuropeptidergic System in Insect" at the International Congress of Pesticide Chemistry held in Australia

Potts, Donna L, English, $2,000; Present "Nuala Ni Dhomhnaill's 'Great Mother' and Ecofeminism" at the Contemporary Irish Poetry and Environmentalism, Regional and Nation Literature Association conference held in Japan


Smith, C. Michael, Entomology, $500; Travel to Southwestern Branch Meeting, Entomological Society of America held in Mexico

Spencer, Joel Q, Geology, $1,200; Present "Luminescence Studies of Age and Thermometric Properties in an Active Earthquake Zone" and "Timing of Latest Pleistocene to Early Holocene Regressive Phase of Lake Bonnieville in the Sevier Subbasin" at the New World Luminescence Dating Workshop

Taylor, Kay A, Secondary Education, $500; Present at the World Congress of Comparative Education Societies held in Turkey

Underwood, Amy, Music, $2,000; Presentation of a Vocal Master Class at Grafenwoehr Army Base and Vocal Recital in Vilsek followed by language and music cultural historical experience in Germany, Prague, and Vienna

Volok, Dan, Mathematics, $1,500; Speak at the International Symposium on Mathematical Theory of Networks and Systems held in Hungary and the International Workshop on Operator Theory and Its Application held in Germany
Wang, Haiyan, Statistics, $2,500; Present "Distribution-free Tests to Detect General Dependence Between a Response Variable and Covariates in the Presence of Possibly a Large Number of Heteroscedastic Treatment Effects"

Wisely, Samantha, Biology, $950; Present "Deforestation and Cattle Ranching Lead to the Expansion of the Reservoir Host to Trypanosomal Disease" at the International Conference on EcoHealth held in the United Kingdom

Wysin, Gary M, Physics, $500; Dynamics of Magnetic Materials in Ontario

Yuan, Wenqiao, Biological and Agricultural Engineering, $2,000; Present "Algae Attachment Techniques and Theories" and "Bio-oils from Biomass Hydrothermal Processing" at the International Conference on Biomass and Energy Technologies held in China

FACULTY DEVELOPMENT AWARDS

Fall 2010

Asano, Katsura, Biology, $2,500; Attend the RNA Society meeting held in Japan

Brase, Gary, Psychology, $1,500; Present research at the 2010 HBES meeting in France

Burrack, Frederick, Music, $750; Present the Culture of Shared Practice: Music Assessment across Cultures and Continents at the International Symposium on Assessment in Music Education in Germany

Canfield, Jessica, Landscape Architecture/Regional and Community Planning, $1,500; Unearthing New Potentials: A Look at Stream Daylighting in the Urban Landscape

Daniels, Melinda, Geography, $1,200; Attend International Symposium on the Interactions between Sediments and Water held in the United Kingdom

Dow, Douglas, Art, $1,200; Present "History and the Hyperreal: "Assassin's Creed II", Simulation, and the Historical Act" at the Modern Simulacra of Renaissance Art Conference held in Switzerland

Hall, Dean G, English, $1,500; Present "Balram is my invisible man: Reading Aravind Adiga's The White Tiger through the lens of Ralph Ellison's Invisible Man" at New Directions in English Studies Conference held in India

Hubbell, Amy L, Modern Languages, $500; Present at the Conseil International d'Etudes Francophones conference in France

Janette, Michele, English, $1,200; Attend the International Conference on New Directions in English Studies: Cross-Cultural Perspectives held in India and an orientation tour and planning session at Bija Vidyapeeth (School of t"

Jani, Vibhavari, $2,200; Present papers at the International Conference on Design Principles and Practices held in Italy
Matlock, Wendy A, English, $1,200; Present "Negotiating Violence and Order in Medieval Robin" at the New Directions in English Studies: Cross-Cultural Perspectives conference held in India

Neymotin, Florence, Economics, $1,000; Present "Giving and the Nature of Communities: An Analysis of How Community Characteristics Affect an Individual's of Engaging in Volunteer Work" at the Royal Economics Society Conference held in England

Northway, Kara, English, $2,000; Present "I wrote to you by my wife: Women in Theatrical Epistolary Networks" at the Cultures of Correspondence in Early Modern Britain Conference held in the United Kingdom

Poggi-Corradini, Pietro, Mathematics, $500; Attend Complex Analysis and Geometry - XX Conference held in Italy

Potts, Donna L, English, $1,200; Present "The ABCDs of Double Colonization in Jhumpa Lahiri's The Namesake" at the New Directions in English Studies: Cross-Cultural Perspectives conference held in India

Ramm, Alexander G, Mathematics, $500; Attend the Chaotic Modeling and Simulation conference in Crete

Rojkovskaia, Natalia, Mathematics, $2,000; Workshop Interaction of Representation Theory with Geometry and Combinatorics held in Germany

Sandercock, Brett K, Biology, $1,300; Attend a Wind Energy and Wildlife Impacts Conference in Norway

Sanders, Joseph C, English, $2,000; Present "Adapting Osamu Tezuka and the Pleasures of Dramatic Irony" at the International Board on Books for Young People in Belgium

Soibelman, Yan S, Mathematics, $1,000; Attend workshop at the Newton Institute at Cambridge University held in the United Kingdom and do joint research with Maxim Kontsevich

Szozkiewicz, Robert, Physics, $500; Travel to Washington, DC to visit with NSF program officers regarding NSF proposals

Tanona, Scott, Philosophy, $500; Present "Was the correspondence principle a heuristic?" at Heuristics in Physics conference held in Germany
UNIVERSITY SMALL RESEARCH GRANTS

Spring 2010

Bell, Sam R, Political Science, $3,000; Trade and International Military Interventions: Disaggregating Multilateral Interventions for a Dyadic Analysis (with Andrew Long)

Cai, Gangshu, Management, $1,750; Market Expansion Effort in Asymmetric Channels

Chen, Xuanjuan (Jane), Finance, $1,000; “Crisis, Systemic Risk, and Performance of Financial Risk Insurers"

Doll, Gayle, Gerontology, $2,500; Sexuality in Nursing Homes: The Ombudsman's Perspective

Hunt, Jon D, Landscape Architecture/Regional & Community Planning, $800; Photography and Mixed Media

Kaczynski, Andrew T, Kinesiology, $1,500; Examining Neighborhood Park Influences on Physical Activity

Kirkpatrick, Kimberly, Psychology, $4,000; Differential Rearing Effects on Novelty-Seeking, Impulsive Action, and Impulsive Choice

Machor, James L, English, $1,600, Index "Historical Receptions: Informed Reading and Responses to American Fiction, 1820-1860" book

McDaniel, Brenda, Psychology, $3,000; Physical and Psychological Wellbeing in Kansas Boys and Girls Club Youth and Parents

McKeeman, Leah, Secondary Education, $2,000; Video Vignettes: How Digital Case Studies Impact Learning in Teacher Preparation Programs

Ragar, Cheryl R, American Ethnic Studies, $1,600; Interview students of former Topeka native Aaron Douglas remembered as the "Father of Black Art"

Tatonetti, Lisa, English, $1,600; 2010 NEH Summer Institute: Native Cultures of Western Alaska and the Pacific Northwest Coast

Wood, Naomi J, English, $600; Research Assistance for the Annotated Edition of Oscar Wilde’s “The Happy Prince and Other Tales"


Yu, Han, English, $1,200; Investigating State of Intercultural Technical/Professional Communication Education in American Universities
UNIVERSITY SMALL RESEARCH GRANTS

Fall 2010

Beck, Dylan, Art, $6,400; “Sustainable Practice, Sustainable Concept: Moving towards a more sustainable practice with the design and production of a natural gas fired soda kiln with recuperative air modifications to increase fuel efficiency”

Burnett, Debra L, School of Family Studies and Human Services, $3,500; Irony comprehension in children with language impairment

Craig, Geraldine, Art, $500; Hmong National Dress

Davis, Elizabeth G, Clinical Sciences, $1,500; Prevalence of Equine Herpes Virus 5 in Equine Lymphoma Cases

Dodd, Elizabeth C, English, $1,500; Mayan Time: Equinox at Chichen Itza

Gibson, Huston, Landscape Architecture/Regional and Community Planning, $2,000; "Aesthetics Versus Function: The Perceived Value of Ecological Landscapes as Community Amenity Among Residents of Stapleton, Colorado"

Hiller Connell, Kim Y, Apparel, Textiles, and Interior Design, $2,500; Exploration of Eco-Conscious Apparel Acquisition Attitudes and Behaviors


McMann, Michael G, Art, $2,000; Request for equipment, hardware and software to expand the scope of creative research in image-making, computation, and interactive digital art

Nazarinia, Rudabeh, School of Family Studies and Human Services, $3,000; Expectations and Experiences of First Time African American Mothers

Ramalho-Ortigao, Marcelo, Entomology, $1,000; Salivary expression profile of natural populations of Phlebotomus papatasi sand flies in Tunisia and impact on zoonotic cutaneous leishmaniasis transmission

Spencer, Joel Q, Geology, $3,000; Timing of Lake Bonneville Latest Pleistocene Regressive Phase: a high-resolution study of hydrologic evolution in the Sevier Desert, Utah

Wiersma, Erin, Art, $2,000; Innovative Industrial Paint for Mural-Scale Paintings
### Annual Proposal/Award Summary

**Department/College Submitted Proposals Period Total Awards Received Total**

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<thead>
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<th>COLLEGE OF AGRICULTURE</th>
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Total Agriculture: 477 $56,200,496 $141,796,006 317 $21,240,522

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Total Architecture, Planning and Design: 8 $286,845 $896,294 3 $60,008

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## Annual Proposal/Award Summary

### 07/01/10-06/30/11

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*Note: The above table provides a summary of proposals and awards received by various departments and colleges from July 1, 2010, to June 30, 2011.*
## Annual Proposal/Award Summary
**07/01/10-06/30/11**

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## Annual Proposal/Award Summary 07/01/10-06/30/11

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

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<tr>
<th>Department/College</th>
<th>Proposals Submitted</th>
<th>Period</th>
<th>Total Received</th>
<th>Total Awarded</th>
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### OFFICE OF THE VICE PRESIDENT FOR RESEARCH

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<td>Comparative Medicine</td>
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<tr>
<td>K-State Clothe Innovation Campus</td>
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<tr>
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<td>Vice President Electronics Design Laboratory</td>
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### OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

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<th>Total Received</th>
<th>Total Awarded</th>
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### University Totals

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<td>Anatomy &amp; Physiology</td>
<td>Clinical Sciences</td>
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**President**

Beach Art Museum: $21,000
McCain Auditorium: $16,000
Office of the President: $2,000,000
Total: $2,029,000

**Provost**

Office of the Provost: $980,341
Assessment & Program Review: $0
Center for Engagement, Community Development: $811,118
Dean of Continuing Education: $0
Dean of the Graduate School: $0
International Programs: $4,324,721
Library: $296,000
Office of Diversity and Dual Career Dev.: $0
Planning and Analysis: $0
Regents Educational Communications Ctr.: $0
School of Leadership Studies: $0
Vice President for Communications and Marketing: $0
Total: $5,374,182

**V.P. Administration and Finance**

Vice President for Administration and Finance: $2,020,000
Budget Office: $0
KSU Police Department: $0
Physical Facilities: $0
Total: $2,020,000

**V.P. Institutional Advancement**

Department of Housing: $129,522
Educational & Personal Development: $1,834,227
KSU Child Development Center: $0
Office of Diversity & Dual Career Dev.: $250,000
University Counseling Services: $284,000
Vice President for Institutional Advancement: $0
Total: $2,028,149

**V.P. Academic Services & Technology**

Vice President for Academic Serv. & Tech.: $0
Dean of Continuing Education: $0
Regents Educational Communications Ctr.: $123,000
Regents TeleNet: $0
Total: $123,000

**Vice President for Research**

Vice President for Research: $417,070
Biosecurity Research Institute: $0
K-State Climate Innovation Campus: $0
National Agricultural Biosecurity Center: $9,509,293
Biotechnology Laboratory: $83,599
Electronics Design Lab: $204,611
Total: $9,645,098

**Vice President for Student Affairs**

Office of the Provost: $980,341
Assessment & Program Review: $0
Center for Engagement, Community Development: $811,118
Dean of Continuing Education: $0
Dean of the Graduate School: $0
International Programs: $4,324,721
Library: $296,000
Office of Diversity and Dual Career Dev.: $0
Planning and Analysis: $0
Regents Educational Communications Ctr.: $0
School of Leadership Studies: $0
Vice President for Communications and Marketing: $0
Total: $5,374,182

**V.P. Administration and Finance**

Vice President for Administration and Finance: $2,020,000
Budget Office: $0
KSU Police Department: $0
Physical Facilities: $0
Total: $2,020,000

**V.P. Institutional Advancement**

Department of Housing: $129,522
Educational & Personal Development: $1,834,227
KSU Child Development Center: $0
Office of Diversity & Dual Career Dev.: $250,000
University Counseling Services: $284,000
Vice President for Institutional Advancement: $0
Total: $2,028,149

**V.P. Academic Services & Technology**

Vice President for Academic Serv. & Tech.: $0
Dean of Continuing Education: $0
Regents Educational Communications Ctr.: $123,000
Regents TeleNet: $0
Total: $123,000

**Vice President for Research**

Vice President for Research: $417,070
Biosecurity Research Institute: $0
K-State Climate Innovation Campus: $0
National Agricultural Biosecurity Center: $9,509,293
Biotechnology Laboratory: $83,599
Electronics Design Lab: $204,611
Total: $9,645,098
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