October 5, 2012

Dear Colleague:

The Office of the Vice President for Research is pleased to provide the attached proposal/award activity report for the period July 1, 2011 - June 30, 2012. These reports are intended to provide you with information regarding faculty efforts to obtain extramural support, along with a summary of their respective successes to date.

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

We hope you continue to find this information useful.

Thank you for your continued support and hard work.

Sincerely,

R.W. Trewyn
Vice President for Research
EXTRAMURAL AWARDS
Fiscal Year 2012 (July 1, 2011 – June 30, 2012)

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

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

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

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

K-State Notice of Nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, color, ethnic or national origin, sex, sexual orientation, gender identity, religion, age, ancestry, disability, military status, veteran status, or other non-merit reasons, in admissions, educational programs or activities and employment, including employment of disabled veterans and veterans of the Vietnam Era, as required by applicable laws and regulations.
Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990, has been delegated to the Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807. Revised April 22, 2008.
The research funding base at Kansas State University consists of funds appropriated from federal and state sources, gifts from alumni and friends, and awards of extramural funds from federal and state agencies, foundations, and various private and industrial organizations, mainly through the competitive grants process.

I. Sponsored $137,445,396

II. Appropriated

Main Campus State Appropriation $ 7,244,384

Experiment Station Programs and Extension Services

  Federal Appropriation* $10,101,717
  State Appropriation $48,650,840

College of Technology and Aviation State Appropriation $ 28,625

Veterinary Medical Center State Appropriation $ 32,124

SUBTOTAL $ 66,057,690

III. Donated** $ 35,023,168

RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL $238,526,254

**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

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Awards</th>
<th>Millions of Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>'02</td>
<td>882</td>
<td>$90.2</td>
</tr>
<tr>
<td>'03</td>
<td>998</td>
<td>$94.3</td>
</tr>
<tr>
<td>'04</td>
<td>997</td>
<td>$100.8</td>
</tr>
<tr>
<td>'05</td>
<td>935</td>
<td>$110.9</td>
</tr>
<tr>
<td>'06</td>
<td>1005</td>
<td>$108.3</td>
</tr>
<tr>
<td>'07</td>
<td>1435</td>
<td>$114.1</td>
</tr>
<tr>
<td>'08</td>
<td>926</td>
<td>$118.0</td>
</tr>
<tr>
<td>'09</td>
<td>884</td>
<td>$133.6</td>
</tr>
<tr>
<td>'10</td>
<td>953</td>
<td>$133.6</td>
</tr>
<tr>
<td>'11</td>
<td>955</td>
<td>$124.6</td>
</tr>
<tr>
<td>'12</td>
<td>910</td>
<td>$137.4</td>
</tr>
</tbody>
</table>
### Distribution of New Awards Among College and Offices of the University

<table>
<thead>
<tr>
<th>College/Office Receiving Awards</th>
<th>Number</th>
<th>Dollar Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Agriculture</td>
<td>363</td>
<td>$36,537,015</td>
</tr>
<tr>
<td>College of Architecture, Planning and Design</td>
<td>6</td>
<td>$295,918</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>156</td>
<td>$23,799,683</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>2</td>
<td>$38,002</td>
</tr>
<tr>
<td>College of Education</td>
<td>31</td>
<td>$5,748,958</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>186</td>
<td>$22,077,011</td>
</tr>
<tr>
<td>College of Human Ecology</td>
<td>38</td>
<td>$21,157,826</td>
</tr>
<tr>
<td>College of Technology and Aviation</td>
<td>2</td>
<td>$18,566</td>
</tr>
<tr>
<td>College of Veterinary Medicine</td>
<td>78</td>
<td>$13,563,282</td>
</tr>
<tr>
<td>Office of the President</td>
<td>2</td>
<td>$1,575,000</td>
</tr>
<tr>
<td>Office of the Provost</td>
<td>16</td>
<td>$1,159,621</td>
</tr>
<tr>
<td>Vice President for Administration and Finance</td>
<td>3</td>
<td>$2,805,271</td>
</tr>
<tr>
<td>Vice President for Research</td>
<td>12</td>
<td>$7,033,365</td>
</tr>
<tr>
<td>Vice President for Student Life and Dean of Students</td>
<td>15</td>
<td>$1,635,878</td>
</tr>
<tr>
<td><strong>UNIVERSITY TOTAL</strong></td>
<td>910</td>
<td><strong>$137,445,396</strong></td>
</tr>
</tbody>
</table>

### Sources of Awards

<table>
<thead>
<tr>
<th>Sources</th>
<th>Number</th>
<th>Dollar Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area/Local Government</td>
<td>6</td>
<td>$53,458</td>
</tr>
<tr>
<td>Department of Agriculture</td>
<td>172</td>
<td>$41,798,726</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>42</td>
<td>$7,151,247</td>
</tr>
<tr>
<td>Department of Education</td>
<td>24</td>
<td>$6,122,261</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>28</td>
<td>$8,217,441</td>
</tr>
<tr>
<td>Department of Health and Human Services</td>
<td>62</td>
<td>$12,641,788</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>31</td>
<td>$2,384,883</td>
</tr>
<tr>
<td>Foundations</td>
<td>191</td>
<td>$9,305,328</td>
</tr>
<tr>
<td>Industry</td>
<td>105</td>
<td>$7,340,363</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>93</td>
<td>$14,869,598</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>11</td>
<td>$666,743</td>
</tr>
<tr>
<td>Other Federal</td>
<td>97</td>
<td>$12,436,106</td>
</tr>
<tr>
<td>State of Kansas</td>
<td>48</td>
<td>$14,457,454</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>910</td>
<td><strong>$137,445,396</strong></td>
</tr>
</tbody>
</table>
FISCAL YEAR 2012
EXTRAMURAL AWARDS
(July 1, 2011 – June 30, 2012)

COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS


Amanor-Boadu, Vincent R., Dalton, Timothy J., Lilja, Nina (International Agricultural Programs), Ross, Kara, and Zereyesus, Yacob, US Department of Agriculture, $1,076,750, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Barnaby Jr, Glenn A., US Department of Agriculture, $15,000, "Risk Management Education Covering Livestock Risk Protection for Feeder Cattle (LRP), Common Crop Insurance Policy (COMBO); Vegetative Index-Pasture, Rangeland, Forage (VI-PRF) and Other Insurance Products for Beginning, Retiring/Transitioning, and other Farmers and Ranchers, and Interested Individuals in Wyoming 2011-12."

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."

Briggeman, Brian C., Multi-Sponsor, $225,000, "Arthur Capper Cooperative Center."

Crespi, John M., US Department of Agriculture, $41,698, "The Neuroeconomics of Controversial Food Technologies."


Dalton, Timothy J., US Department of Agriculture, $24,503, "Collaborative Research Support Program, Board of International Food and Agriculture (BIFAD) Review."

Dalton, Timothy J., US Department of Agriculture, $16,335, "Peanut Collaborative Research Project (CRSP)."


Dhuyvetter, Kevin C., and Llewelyn, Richard V., US Department of Agriculture, $30,220, "Improving Land Leasing Skills in Kansas."


Featherstone, Allen M., Food and Agriculture Organization of United Nations, $23,000, "A Study on Advancing Methodologies for Food Security Analysis and Vulnerability Assessment."


Golden, Bill B., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $43,757, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."


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

Langemeier, Michael R., Barnes, Philip L., (Biological and Agricultural Engineering), Devlin, Daniel L., (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Douglas-Mankin, Kyle R., (Biological and Agricultural Engineering), Graber, Ronald W., (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Keane, Timothy D., (Landscape Architecture/Regional and Community Planning), Nelson, Nathan O., (Agronomy), and Sheshukov, Aleksey Y., (Biological and Agricultural Engineering), US Department of Agriculture, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."

Leatherman, John C., US Environmental Protection Agency, $148,547 (includes $36,519 from Outside Cooperators), "Cottonwood Implementation FY2012."

Leatherman, John C., US Environmental Protection Agency, $162,419 (includes $40,820 from In kind support), "Milford Lake Implementation FY2012."

Leatherman, John C., Devlin, Daniel L., (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and Sheshukov, Aleksey Y., (Biological and Agricultural Engineering), US Environmental Protection Agency, $225,054 (includes $13,888 from In kind support), "Nine Elements Watershed Planning Technical Assistance - Year 2."

Leatherman, John C., US Environmental Protection Agency, $139,474 (includes $33,710 from Outside Cooperators), "Upper Neosho Implementation FY 2012."


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


Peterson, Hikaru H., Kahl, Daniel W., (Agriculture and Natural Resources), and Procter, David E. (Center for Engagement and Community Development), US Department of Agriculture, "Business Strategies for New and Existing Rural Grocery Stores: Roles of Local Foods, Institutional Sales, and Community Food Assessment."

Peterson, Jeffrey M., Aistrup, Joseph (Political Science), Bergtold, Jason S., and Kulcsar, Laszlo (Sociology, Anthropology, and Social Work), National Science Foundation, $100,232, "Farmers' Decisions to Grow Crops for Fuel."
Peterson, Jeffrey M., Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Pfromm, Peter H. (Chemical Engineering), and Rezac, Mary E. (Chemical Engineering), National Science Foundation, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."

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

Schroeder, Ted C., Reinhardt, Christopher D. (Animal Sciences and Industry), Schulz, Lee, Thomson, Daniel U. (Clinical Sciences), and Tonsor, Glynn, US Department of Agriculture, $113,700, "Value of Pre-Harvest Food Safety and Animal Welfare Certification for Cattle Producers."


Schulz, Lee, Reinhardt, Christopher D. (Animal Sciences and Industry), Schroeder, Ted C., Thomson, Daniel U. (Clinical Sciences), and Tonsor, Glynn, US Department of Agriculture, "Value of Pre-Harvest Food Safety and Animal Welfare Certification for Cattle Producers."


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

Taylor, Mykel R., Golden, Bill B., Langemeier, Michael R., O'Brien, Daniel M. (Northwest Area Office), Roozeboom, Kraig L. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), and Thompson, Curtis R. (Agronomy), Kansas Corn Commission, $14,213, "A Study of the Efficiency of Corn and Sorghum Production in Kansas."


Tonsor, Glynn, Reinhardt, Christopher D. (Animal Sciences and Industry), Schroeder, Ted C., Schulz, Lee, and Thomson, Daniel U. (Clinical Sciences), US Department of Agriculture, "Value of Pre-Harvest Food Safety and Animal Welfare Certification for Cattle Producers."

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

AGRICULTURAL EXPERIMENT STATION


AGRICULTURAL RESEARCH CENTER - HAYS

Blanco, Humberto, Aiken, Robert M. (Northwest Research Extension Center), Devlin, Daniel L. (Ks Ctr for Ag Rsrsces & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $13,127, "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."

Harmanoney, Keith R., Multi-Sponsor, $3,000, "Beef Research."

Harmanoney, Keith R., US Department of Energy, $29,000, "CRP Management for Biomass Feedstock Production."

Perumal, Ramasamy, Kansas Grain Sorghum Commission, $70,000, "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, $17,345, "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, $6,400, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

Perumal, Ramasamy, Aiken, Robert M. (Northwest Research Extension Center), Little, Christopher R. (Plant Pathology), and Tesso, Tesfaye (Agronomy), The United Sorghum Checkoff Program Board, $14,000, "Evaluation of Advanced A/B and R Lines under Multi-location Hybrid Trials to improve Sorghum Yields with Drought and Herbicide Tolerance under Water-deficit Conditions."

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

Stahlman, Phillip W., Geier, Patrick W., and O'Brien, Daniel M. (Northwest Area Office), Kansas Grain Sorghum Commission, $14,503, "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., Falk, Jeanne S. (Northwest Area Office), and O'Brien, Daniel M. (Northwest Area Office), Kansas Sunflower Commission, $15,000, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

Stahlman, Phillip W., Monsanto Company, $18,585, "Service Order No. 38."

Stahlman, Phillip W., Multi-Sponsor, $130,816, "Weed Research."

Stahlman, Phillip W., Falk, Jeanne S. (Northwest Area Office), and O'Brien, Robert T. (Northwest Area Office), National Sunflower Association, $14,000, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

Stahlman, Phillip W., National Sunflower Association, $4,000, "Sunflower Tolerance to Pyroxasulfone Applied PRE and Early-POST - Hays."

AGRONOMY


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

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

Dille, Johanna A., and Thompson, Curtis R., Kansas Grain Sorghum Commission, $10,000, "Dynamics of Nitrogen Rate and Form, Annual Weeds, and Soil-Applied Herbicides."


Dille, Johanna A., and Wiley, Zelia Z. (Dean of Agriculture and Director of AES), US Department of Agriculture, $56,958, "Transfer Student BRIDGE - Bridging Relationships to Internships and Diverse Group Experiences."

Fick, Walter H., Multi-Sponsor, $24,200, "Range and Pasture Brush and Weed Control."


Fritz, Allan K., Kansas Crop Improvement Association, $10,000, "Development of Flood Tolerant Germplasm and Germplasm with Alternative Dwarfing Genes."


Fritz, Allan K., Fellers, John P. (Plant Pathology), Todd, Timothy C. (Plant Pathology), and Trick, Harold N. (Plant Pathology), Kansas Wheat Alliance, "Enhance Grain Filling of Wheat During High Temperatures."

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


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

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

Fritz, Allan K., Monsanto Company, $198,021, "Monsanto's Beachell-Borlaug International Scholars Program Sarah Battenfield PhD Study."

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


Heer, William F., Holman, Johnathon D. (Southwest Research Extension Center), Roozeboom, Krag L., and Stamm, Michael J., US Department of Agriculture, "Promoting and Disseminating Good Farming Practices and Risk Management Education for Winter Canola to Farmers and Ranchers in the Topeka, Kansas Region of RMA."


Hettiarachchi, Ganga M., Mengel, David B., and Ruiz Diaz Suarez, Dorivar A., Iogen Energy Corporation, $46,725, "Greenhouse and Laboratory Evaluations on use of Iogen Cellulosic Ethanol-Waste Stream as a Fertilizer Substitute and/or Soil Amendment."

Hettiarachchi, Ganga M., Leven, Blase A. (Center for Hazardous Substance Research), and Martin, Sabine E. (Center for Hazardous Substance Research), USEnvironmental 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, $36,417, "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."

Knapp, Mary C., and Staggenborg, Scott A., National Oceanic and Atmosphere Administration, "Weather Date Library Data Sets."

Lingenfelser, Jane E., Kansas Soybean Commission, $1,949, "Evaluation of Commonly Grown Soybean Varieties in Southeast and Western Kansas."

Lingenfelser, Jane E., and Miller, Rebecca (Grain Science and Industry), Kansas Wheat Commission, $1,000, "Preferred Hard Winter Wheat Varieties for Kansas: Milling and Bread Baking Quality Rankings."


Mengel, David B., Kansas Grain Sorghum Commission, $31,795, "Increased Sorghum Yield and Profitability through Efficient Nitrogen Use."


Mengel, David B., Kansas Wheat Commission, $34,654, "Enhancing Nutrient Use Efficiency and Reducing the Cost of Wheat Production in Kansas."
Mengel, David B., and Holman, Johnathon D. (Southwest Research Extension Center), The United Sorghum Checkoff Program Board, $20,000, "Enhancing Sorghum Nitrogen Use Efficiency through Fertilizer Management."


Nelson, Nathan O., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Graber, Ronald W. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), and Sheshukov, Aleksey Y. (Biological and Agricultural Engineering), US Department of Agriculture, $85,500, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."

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

Nelson, Randall, and Roozeboom, Kraig L., Kansas Grain Sorghum Commission, $18,872, "Harvest and Residue Management of Sorghum to Facilitate Double-Cropped Wheat."

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

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

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

Pagadala, P. V. Vara, Tesso, Tesfaye, and Yu, Jianming, Kansas Grain Sorghum Commission, $52,000, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."


Pagadala, P. V. Vara, and Akhunov, Eduard D. (Plant Pathology), US Department of Agriculture, $118,199, "Improving Barley and Wheat Germplasm for Changing Environments."

Pagadala, P. V. Vara, 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 Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A., and Steward, David R. (Civil Engineering), US Department of Agriculture, $26,254, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Pagadala, P. V. Vara, US Department of Transportation, $4,000, "Breeding and Testing of New Switchgrass Cultivars for Increased Biomass Production in Oklahoma, Arkansas, Texas and Kansas."

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, $10,080, "Service Order #36 DTS Systems Recommendations for Conventional Tillage in the Midwest."

Peterson, Dallas E., Monsanto Company, $6,300, "Service Order No. 40 Residual Timing for Marestail Control in Soybeans."


Pierzynski, Gary M., US Department of Agriculture, $43,000, "Development of a Unified Rotation Builder for NRCS."

Pierzynski, Gary M., US Department of Agriculture, $482,927, "Development of Abiotic Stress Resistant Wheat Germplasm."
Pierzynski, Gary M., US Department of Agriculture, $10,000, "Development of Enhanced Features, Improved Documentation and Expanded Databases for WEPS."

Pierzynski, Gary M., US Department of Agriculture, $50,000, "NRCS Requested Enhancements to the Wind Erosion Prediction System (WEPS)."


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


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, $29,624, "Evaluation of Soybean Inoculant Products and Techniques to Address Soybean Nodulation Problems in Kansas."

Rice, Charles W., Harrington Jr, John A. (Geography), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), National Science Foundation, $632,220, "Understanding Climate Change in the Great Plains: Source, Impact, and Mitigation."

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

Roozeboom, Kraig L., Golden, Bill B. (Agricultural Economics), Langemeier, Michael R. (Agricultural Economics), O'Brien, Daniel M. (Northwest Area Office), Schlegel, Alan J. (Southwest Research Extension Center), Taylor, Mykel R. (Agricultural Economics), and Thompson, Curtis R., Kansas Corn Commission, "A Study of the Efficiency of Corn and Sorghum Production in Kansas."

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

Roozeboom, Kraig L., Kansas Grain Sorghum Commission, $6,982, "Extension Programs for Kansas Grain Sorghum Production."

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

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


Roozeboom, Kraig L., Multi-Sponsor, $322,112, "Crop Performance."

Roozeboom, Kraig L., United Soybean Board, $38,000, "Agronomic Maximization of Soybean Yield and Quality."

Roozeboom, Kraig L., Heer, William F., Holman, Johnathon D. (Southwest Research Extension Center), and Stamm, Michael J., US Department of Agriculture, "Promoting and Disseminating Good Farming Practices and Risk Management Education for Winter Canola to Farmers and Ranchers in the Topeka, Kansas Region of RMA."


Ruiz Diaz Suarez, Dorivar A., Hettiarachchi, Ganga M., and Mengel, David B., Iogen Energy Corporation, "Greenhouse and Laboratory Evaluations on use of Iogen Celululosic Ethanol-Waste Stream as a Fertilizer Substitute and/or Soil Amendment."
Ruiz Diaz Suarez, Dorivar A., Holman, Johnathon D. (Southwest Research Extension Center), Schlegel, Alan J. (Southwest Research Extension Center), and Shoup, Douglas E. (Southeast Area Office), Kansas Grain Sorghum Commission, $21,250, "Effect of Manure, Iron, and Zinc Application Methods on Grain Sorghum."

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, $22,837, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."


Schaffer, Vernon A., Multi-Sponsor, $10,282, "Foundation Seed Maintenance."

Schapaugh Jr, William T., McCornack, Brian P. (Entomology), Smith, C. Michael (Entomology), and Whitworth, Robert "Jeff" J. (Entomology), Kansas Soybean Commission, $2,943, "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, $174,037, "Trait and Production Efficiency Enhancement in Soybean."

Schapaugh Jr, William T., North Central Soybean Research Program, $6,000, "Nested Association Mapping (NAP) of Genes Controlling Soybean Yield and Other Key Traits."

Schapaugh Jr, William T., Smithbucklin Corporation, $20,000, "Gene Discovery and Genomics Strategies to Improve Yield and Abiotic Stress Tolerance in Maturity Group III and IV Soybeans."

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


Staggenborg, Scott A., Rice, Charles W., and Wang, Donghai (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, $7,500, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."


Staggenborg, Scott A., and Knapp, Mary C., National Oceanic and Atmosphere Administration, $45,262, "Weather Date Library Data Sets."


Staggenborg, Scott A., Tesso, Tesfaye, Wang, Donghai (Biological and Agricultural Engineering), and Yu, Jianming, US Department of Agriculture, "Sorghum Biomass Genomics and Phenomics."

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 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), 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."

Stamm, Michael J., Kansas Crop Improvement Association, $5,000, "Improving Winter Canola Adaptation to Kansas."

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

Stamm, Michael J., Heer, William F., Holman, Johnathon D. (Southwest Research Extension Center), and Roozeboom, Kraig L., US Department of Agriculture, $100,000, "Promoting and Disseminating Good Farming Practices and Risk Management Education for Winter Canola to Farmers and Ranchers in the Topeka, Kansas Region of RMA."

Tesso, Tesfaye, Pagadala, P. V. Vara, Roozeboom, Kraig L., and Yu, Jianming, Kansas Grain Sorghum Commission, $83,200, "Breeding Sorghum for Improved Production and Utilization."

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

Tesso, Tesfaye, Little, Christopher R. (Plant Pathology), and Perumal, Ramasamy (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, $3,200, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

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

Tesso, Tesfaye, Aiken, Robert M. (Northwest Research Extension Center), Little, Christopher R. (Plant Pathology), and Perumal, Ramasamy (Agricultural Research Center-Hays), The United Sorghum Checkoff Program Board, $2,000, "Evaluation of Advanced A/B and R Lines under Multi-location Hybrid Trials to improve Sorghum Yields with Drought and Herbicide Tolerance under Water-deficit Conditions."

Tesso, Tesfaye, and Yu, Jianming, US Department of Agriculture, $30,000, "Enhancement of Cold Tolerance in Sorghums."

Tesso, Tesfaye, Staggenborg, Scott A., Wang, Donghai (Biological and Agricultural Engineering), and Yu, Jianming, US Department of Agriculture, "Sorghum Biomass Genomics and Phenomics."

Thompson, Curtis R., Golden, Bill B. (Agricultural Economics), Langemeier, Michael R. (Agricultural Economics), O'Brien, Daniel M. (Northwest Area Office), Roozeboom, Kraig L., Schlegel, Alan J. (Southwest Research Extension Center), and Taylor,
Mykel R. (Agricultural Economics), Kansas Corn Commission, $14,213, "A Study of the Efficiency of Corn and Sorghum Production in Kansas."

Thompson, Curtis R., and Dille, Johanna A., Kansas Grain Sorghum Commission, "Dynamics of Nitrogen Rate and Form, Annual Weeds, and Soil-Applied Herbicides."


Thompson, Curtis R., Monsanto Company, $18,585, "Service Order No. 37 - Kochia Control in Wheat Stubble after Wheat Harvest."


Thompson, Curtis R., National Sunflower Association, $4,000, "Sunflower Tolerance to Pyroxasulfone Applied PRE and Early-POST."

Thompson, Curtis R., The United Sorghum Checkoff Program Board, $21,000, "Herbicide Evaluation on Grain Sorghum."

Welch, Stephen M., Caragea, Doina (Computing and Information Sciences), Das, Sanjoy (Electrical and Computer Engineering), and Kluitenberg, Gerard J., National Science Foundation, $195,683, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

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

Yu, Jianming, Pagadala, P. V. Vara, and Tesso, Tesfaye, Kansas Grain Sorghum Commission, $80,000, "Genetic Analysis of Drought Tolerance in Grain Sorghum."

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

Yu, Jianming, National Science Foundation, $97,008, "Genomic Analyses of Shoot Meristem Function in Maizes."

Yu, Jianming, Staggenborg, Scott A., Tesso, Tesfaye, and Wang, Donghai (Biological and Agricultural Engineering), US Department of Agriculture, $608,000, "Sorghum Biomass Genomics and Phenomics."


**ANIMAL SCIENCES AND INDUSTRY**

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

Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., National Pork Board, "Reducing Feed Cost through Improved Knowledge Using Soybean Hulls in Modern Commercial Swine Nursery and Finishing Diets."

Bradford, Barry J., and Smith, John F., Elanco Animal Health, $18,500, "Can rbST Mitigate the Metabolic Consequences of Inflammation?."

Bradford, Barry J., Mamedova, Laman, and Titgemeyer, Evan C., Kemin Americas, $110,000, "Interactions of Supplemental Amino Acids and Chromium Propionate in Peak Lactation Dairy Cattle."

Brouk, Micheal J., Balchem Corporation, $9,792, "Response of Dairy Cattle to Rumen Protected Lysine."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Ajinomoto Heartland LLC, "Crystalline Amino Acid use in Diets Containing High Levels of DDGS for Finisher Pigs."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Danisco Animal Nutrition, $13,119, "Influence of Xylanase in High Co-product Diets under Field Conditions in Growing and Finishing Pigs I."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., DSM Nutritional Products AG, "An evaluation of the Effects of Added Vitamine D3 in Maternal Diets on Sow and Pig Performance."
DeRouchey, Joel M., Bergstrom, Jonathan R., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., National Pork Board, $93,243 (includes $32,000 from Kalmbach Feeds/New Horizon Farms), "Reducing Feed Cost through Improved Knowledge Using Soybean Hulls in Modern Commercial Swine Nursery and Finishing Diets."

DeRouchey, Joel M., McKinney, Leland (Grain Science and Industry), and Tokach, Michael D., National Pork Board, $77,608 (includes $23,500 from New Fashion Pork), "Re-Evaluating Moderate to Severe Feed Processes in Light of High Ingredient Prices and the Increasing use of Fibrous Feedstuffs."

DeRouchey, Joel M., and Tokach, Michael D., US Department of Agriculture, "Enhancing Sustainability and Competitiveness of the U.S. Pork Industry by Improving Nutrient Utilization and Feed Efficiency."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., XFE Products, $13,000, "To Determine the Effect of AV-E Digest and XFE Liquid Energy on Nursery Pig Performance."


Drouillard, James S., and Hollis, Larry C., Dakota Gold Research Association, $36,000, "Fixed Price Agreement: Protease Enzyme Influence on Digestibility of DDGS."


Fung, Daniel Y.C., DeltaTRAK Inc., $15,000, "Salmonella Testing."


Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., Ajinomoto Heartland LLC, "Crystalline Amino Acid use in Diets Containing High Levels of DDGS for Finisher Pigs."
Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., Danisco Animal Nutrition, "Influence of Xylanase in High Co-product Diets under Field Conditions in Growing and Finishing Pigs I."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., DSM Nutritional Products AG, "An evaluation of the Effects of Added Vitamine D3 in Maternal Diets on Sow and Pig Performance."

Goodband, Robert D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., National Pork Board, "Reducing Feed Cost through Improved Knowledge Using Soybean Hulls in Modern Commercial Swine Nursery and Finishing Diets."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Nelssen, Jim L., and Tokach, Michael D., XFE Products, "To Determine the Effect of AV-E Digest and XFE Liquid Energy on Nursery Pig Performance."

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

Hollis, Larry C., and Drouillard, James S., Dakota Gold Research Association, "Fixed Price Agreement: Protease Enzyme Influence on Digestibility of DDGS."


Lee, Charles D., Kansas Department of Wildlife and Parks, $44,200, "Extension Education Position Support."

Lee, Charles D., Cully, Jr., Jack F. (Biology), and Wisely, Samantha (Biology), Nature Conservancy, "Smoky Valley Ranch Prairie Dog Management."

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


Mamedova, Laman, Bradford, Barry J., and Titgemeyer, Evan C., Kemin Americas, "Interactions of Supplemental Amino Acids and Chromium Propionate in Peak Lactation Dairy Cattle."
Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., Ajinomoto Heartland LLC, "Crystalline Amino Acid use in Diets Containing High Levels of DDGS for Finisher Pigs."


Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., DSM Nutritional Products AG, $50,000, "An evaluation of the Effects of Added Vitamine D3 in Maternal Diets on Sow and Pig Performance."

Nelssen, Jim L., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., National Pork Board, "Reducing Feed Cost through Improved Knowledge Using Soybean Hulls in Modern Commercial Swine Nursery and Finishing Diets."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., XFE Products, "To Determine the Effect of AV-E Digest and XFE Liquid Energy on Nursery Pig Performance."


Nutsch, Abbey L., Getty, Kelly J. K. (Food Science Institute), Kastner, Curtis L. (Food Science Institute), and Kastner, Justin J. (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, $26,039, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."


Odde, Kenneth G., Maier, Dirk E. (Grain Science and Industry), Pierzynski, Gary M. (Dean of Agriculture and Director of AES), and Schulz, Kirk H. (Office of the President), Kansas Bioscience Authority, "Raising the Global Stature of Feed Technology and Animal Nutrition at Kansas State University."

Reinhardt, Christopher D., US Department of Agriculture, $30,500, "Cattle Grading Predictions vs. Final Outcome."
Reinhardt, Christopher D., Schroeder, Ted C. (Agricultural Economics), Schulz, Lee (Agricultural Economics), Thomson, Daniel U. (Clinical Sciences), and Tonsor, Glynn (Agricultural Economics), US Department of Agriculture, "Value of Pre-Harvest Food Safety and Animal Welfare Certification for Cattle Producers."


Sexten, Andrea K., Intervet, Inc., $45,000, "Merck’s Statistical Analysis and Reporting Project."

Smith, J. Scott, McCormick Science Institute, $26,077, "Inhibition of Heterocyclic Amines in Cooked Meat Products by Black Pepper."

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

Stevenson, Jeffrey S., Kansas Dairy Commission, $5,000, "Five-Day Programs to Resynchronize Ovulation in Lactating Dairy Cows Diagnosed Nonpregnant in Palpated Herds."

Stevenson, Jeffrey S., Select Sires, $10,400, "Role of Secretory Patterns of Luteinizing Hormone in Ovulatory Responses in Dairy Cows before AI."

Titgemeyer, Evan C., Bradford, Barry J., and Mamedova, Laman, Kemin Americas, "Interactions of Supplemental Amino Acids and Chromium Propionate in Peak Lactation Dairy Cattle."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Nelssen, Jim L., Ajinomoto Heartland LLC, $50,000, "Crystalline Amino Acid use in Diets Containing High Levels of DDGS for Finisher Pigs."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Nelssen, Jim L., Danisco Animal Nutrition, "Influence of Xylanase in High Co-product Diets under Field Conditions in Growing and Finishing Pigs I."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Nelssen, Jim L., DSM Nutritional Products AG, "An evaluation of the Effects of Added Vitamin D3 in Maternal Diets on Sow and Pig Performance."
Tokach, Michael D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Nelssen, Jim L., National Pork Board, "Reducing Feed Cost through Improved Knowledge Using Soybean Hulls in Modern Commercial Swine Nursery and Finishing Diets."

Tokach, Michael D., DeRouchey, Joel M., and McKinney, Leland (Grain Science and Industry), National Pork Board, "Re-Evaluating Moderate to Severe Feed Processes in Light of High Ingredient Prices and the Increasing use of Fibrous Feedstuffs."

Tokach, Michael D., and DeRouchey, Joel M., US Department of Agriculture, $218,583, "Enhancing Sustainability and Competitiveness of the U.S. Pork Industry by Improving Nutrient Utilization and Feed Efficiency."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Nelssen, Jim L., XFE Products, "To Determine the Effect of AV-E Digest and XFE Liquid Energy on Nursery Pig Performance."


COMMUNICATIONS


DEAN OF AGRICULTURE AND DIRECTOR OF AES

Pierzynski, Gary M., Maier, Dirk E. (Grain Science and Industry), Odde, Kenneth G. (Animal Sciences and Industry), and Schulz, Kirk H. (Office of the President), Kansas Bioscience Authority, "Raising the Global Stature of Feed Technology and Animal Nutrition at Kansas State University."

Pierzynski, Gary M., Kansas State University Foundation, $25,000, "ASI Salary."

**ENTOMOLOGY**

**Beeman, Richard W., Arakane, Yasuyuki (Biochemistry), Kramer, Karl J. (Biochemistry), and Muthukrishnan, Subbarat (Biochemistry), National Science Foundation, $1,500, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**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."

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

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

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

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

**Cloyd, Raymond A., Ohio Floriculture Association, $7,200, "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."
Cloyd, Raymond A., Atchison, Robert L. (Kansas Forest Service), Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Biles, Larry E. (Kansas Forest Service), Kennelly, Megan (Plant Pathology), O'Mara, Judith A. (Plant Pathology), and Ricci, Nicole M. (Kansas Forest Service), US Department of Agriculture, $5,095, "Professional Development Training for Sustainable Agroforestry in Kansas."

Harvey, Tom L., and Michaud, John P., Multi-Sponsor, $12,000, "Insecticide Management of Field Crop Insects."


McCornack, Brian P., and Reese, John C., North Central Soybean Research Program, $55,000, "Soybean Aphid Management, Resistance and Outreach in the North Central Region."

McCornack, Brian P., US Department of Agriculture, $10,000, "Deployment and Validation of an Automated Trapping System for Monitoring Helicoverpa zea."

McCornack, Brian P., US Department of Agriculture, $82,320, "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."

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

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, $37,441, "Extension IPM Coordination Program for Kansas."

Miller, Frannie L., US Department of Agriculture, $10,000, "Pesticide Safety Education Program."


Park, Yoonseong, Monsanto Company, $148,000, "Investigation of RNAi Effects in Beetles using Histology."

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

Phillips, Thomas W., Cloyd, Raymond A., Reese, John C., and Whitworth, Robert "Jeff" J., Multi-Sponsor, $141,725, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Phillips, Thomas W., US Department of Agriculture, $96,337, "Evaluation of Methyl Bromide Alternatives for their efficacy at controlling pests of dry cured ham and aged cheese products."

Phillips, Thomas W., US Department of Agriculture, $10,000, "Evaluation of Potential Alternatives to Methyl Bromide Fumigation in Dry Cured Ham and Aged Cheese Production."

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, "Extension IPM Coordination Program for Kansas."

Phillips, Thomas W., US Department of Agriculture, $6,000, "Factors AffectingHemotophagous Arthropod Attraction to Infected and Uninfected Animals."


Smith, C. Michael, and Whitfield, Anna E. (Plant Pathology), Kansas Wheat Commission, $22,250, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

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, $14,297, "Processing of Samples Collected from US Alfalfa Study During 2011 (Service Order No. 30)."

Whitworth, Robert "Jeff" J., Monsanto Company, $30,000, "Service Order #42 Processing of Sticky Trap Samples Collected from Monsanto 2012 US Com Studies."

Whitworth, Robert "Jeff" J., Cloyd, Raymond A., Phillips, Thomas W., 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., Syngenta Seeds, Inc., $7,500, "University Research Service Agreement."

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

Zolnerowich, Gregory, Institute of Museum and Library Services, $150,000, "Enhancing BiodIS, the Kansas State University Biodiversity Information System."

Zurek, Ludek, Multi-Sponsor, $8,000, "Methods for Control of Livestock Insects."

**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, $117,175, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

**GRAIN SCIENCE AND INDUSTRY**

Alavi, Sajid, PepsiCo International, $21,860, "Pilot-Scale Studies for Optimization and Production of Oat and Multi-Grain Flakes."

Alavi, Sajid, and Lilja, Nina (International Agricultural Programs), US Department of Agriculture, $104,764, "Raising the Global Intelligence Quotient of U.S. Workforce via Food Security and Agricultural Value Addition in Mozambique."

Bhadriraju, Subramanyam, Multi-Sponsor, $75,000, "Grain Science."

Bhadriraju, Subramanyam, and Dogan, Hulya, US Department of Agriculture, "Graduate Training to Meet Current and Future Challenges in Post-Harvest Protection & Biosecurity."

Campabadal, Carlos, and Maier, Dirk E., US Department of Agriculture, "Grain Handling and Port Operation Training Program."
Campabadal, Carlos, Fowler, Mark, Maier, Dirk E., and O'Neil III, Howard J., US Department of Agriculture, "Service Agreement."

Dogan, Hulya, and Bhadriraju, Subramanyam, US Department of Agriculture, $200,000, "Graduate Training to Meet Current and Future Challenges in Post-Harvest Protection & Biosecurity."


Fowler, Mark, and Faubion, Jon M., Colorado Wheat Administrative Committee, "International Grain Project Wheat Advisory Board."


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


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

Madl, Ronald L., and Fritz, Allan K. (Agronomy), Kansas Wheat Commission, $35,000, "Induction of Wheat Antioxidants to Consistent Commercial Levels."

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

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

Maier, Dirk E., Grain Elevator & Processing Society, $10,000, "Memorandum of Agreement - GEAPS 501 Course Development Facilitation."
Maier, Dirk E., Grain Elevator & Processing Society, $5,000, "Memorandum of Agreement - GEAPS 520 Course Development Facilitation."

Maier, Dirk E., Grain Elevator & Processing Society, $10,000, "Memorandum of Agreement - GEAPS 545 Course Development Facilitation."

Maier, Dirk E., Grain Elevator & Processing Society, $10,000, "Memorandum of Agreement - GEAPS 552 Course Development Facilitation."

Maier, Dirk E., Kansas Alliance for Biorefining and Bioenergy, $20,000, "Memorandum of Agreement."

Maier, Dirk E., Odde, Kenneth G. (Animal Sciences and Industry), Pierzynski, Gary M. (Dean of Agriculture and Director of AES), and Schulz, Kirk H. (Office of the President), Kansas Bioscience Authority, "Raising the Global Stature of Feed Technology and Animal Nutrition at Kansas State University."

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., Kansas Grain Sorghum Commission, $45,000, "Renovation of Multipurpose Room - International Grains Program Support Project."

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

Maier, Dirk E., Kansas State University Foundation, $50,000, "Grain Science & Industry Charles D. Singleton Chair."

Maier, Dirk E., Kansas State University Foundation, $45,000, "Grain Science & Industry NAMA Instructor of Milling."

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


Maier, Dirk E., and Campabadal, Carlos, US Department of Agriculture, $20,241, "Grain Handling and Port Operation Training Program."

Maier, Dirk E., US Department of Agriculture, $458,342, "KSU Pakistan Fish Feed Project."
Maier, Dirk E., US Department of Agriculture, $31,884, "Seed Certification and Policy Training."

Maier, Dirk E., Campabadal, Carlos, Fowler, Mark, and O'Neil III, Howard J., US Department of Agriculture, $40,000, "Service Agreement."


Maier, Dirk E., US Department of Labor, $28,000, "Grain Safety Education and Training."


McKinney, Leland, DeRouchey, Joel M. (Animal Sciences and Industry), and Tokach, Michael D. (Animal Sciences and Industry), National Pork Board, "Re-Evaluating Moderate to Severe Feed Processes in Light of High Ingredient Prices and the Increasing use of Fibrous Feedstuffs."


Miller, Rebecca, Kansas Wheat Alliance, $22,000, "Selecting Wheat Varieties for Tortilla Production."

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

Miller, Rebecca, and Lingenfelser, Jane E. (Agronomy), Kansas Wheat Commission, $4,000, "Preferred Hard Winter Wheat Varieties for Kansas: Milling and Bread Baking Quality Rankings."

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, General Mills, Inc., $25,000, "Research Services Agreement."

Shi, Yong Cheng, Kansas Grain Sorghum Commission, $28,000, "Developing Sorghum Flours with Increased Resistant Starch Content for Health Benefits."

Shi, Yong Cheng, US Department of Agriculture, $7,000, "Evaluating Cereal Starch and Protein Digestibility."

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

Sun, X. Susan, and Shi, Jishu N. (Anatomy and Physiology), Kansas State University Research Foundation, $15,000, "Testing the Efficacy of Hydrogel h9e as Adjuvant for Swine Vaccines."

Sun, X. Susan, and Wang, Donghai (Biological and Agricultural Engineering), United Soybean Board, $65,954, "Scale-up Feasibility Studies of Soy Protein-based Adhesives."


**HORTICULTURE, FORESTRY AND RECREATION RESOURCES**

Barden, Charles J., Atchison, Robert L. (Kansas Forest Service), Biles, Larry E. (Kansas Forest Service), Cloyd, Raymond A. (Entomology), Kennelly, Megan (Plant Pathology), O'Mara, Judith A. (Plant Pathology), and Ricci, Nicole M. (Kansas Forest Service), US Department of Agriculture, $5,095, "Professional Development Training for Sustainable Agroforestry in Kansas."

Boyer, Cheryl R., Miller, Frannie L. (Entomology), and Rivard, Cary L., Kansas Health Foundation, $446,030, "Kansas Neighborhood Gardens: Growing New Roots for Healthy Communities."

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), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S., and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

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

Fry, Jack D., Bremer, Dale J., Griffin, Jason, and Keeley, Steven J., Multi-Sponsor, $84,000, "Turfgrass Investigations."

Fry, Jack D., National Turfgrass Evaluation Program, Inc., $1,000, "Turfgrass Testing - Kentucky Bluegrass."


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


Janke, Rhonda R., US Department of Agriculture, $10,000, "Evaluating Interaction of Urban Farmers and Extension Educators in Metropolitan Kansas City - Caroline Tanner."

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

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

Park, Sunghun, HI Green System, $50,001, "Metabolic Engineering of Health-Promoting Phytochemicals in Tomato."
Park, Sunghun, and Chambers IV, Edgar (Human Nutrition), US Department of Agriculture, $26,178, "Development of Calcium-Enhanced Lettuce."

Park, Sunghun, and Valent, Barbara S. (Plant Pathology), US Department of Agriculture, $34,983, "Manipulation of Plasmodesmata by Magnaporthe Orysze During Rice Blast Disease."

Reid, William R., University of Missouri, $18,337, "Missouri Pecan Growers."

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

Rivard, Cary L., US Department of Agriculture, $10,000, "Implementation of Novel Grafting Methods and Rootstocks for Organic and Heirloom Tomato Growers in the Midwest (GRA - Sarah A. Masterson)."

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), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, $9,360, "Extension IPM Coordination Program for Kansas."

Williams, Kimberly A., and Miller, Chad T., American Floral Endowment, $2,800, "Leveraging FFA Career Development Events in Floriculture as a Student Recruitment Tool."

Williams, Kimberly A., Multi-Sponsor, $100, "Floriculture Research."

INTERNATIONAL AGRICULTURAL PROGRAMS

Lilja, Nina, Amanor-Boadu, Vincent R. (Agricultural Economics), Dalton, Timothy J. (Agricultural Economics), Ross, Kara (Agricultural Economics), and Zereyesus, Yacob (Agricultural Economics), US Department of Agriculture, $81,046, "METSS Ghana Implementation (Sustaining Growth Through Effective Management and Collaboration)."

Lilja, Nina, and Alavi, Sajid (Grain Science and Industry), US Department of Agriculture, $44,899, "Raising the Global Intelligence Quotient of U.S. Workforce via Food Security and Agricultural Value Addition in Mozambique."

Lilja, Nina, Blocksome, Carolyn E. (Agronomy), Devlin, Daniel L. (Ks Ctr for Ag Rscres & the Env / Ks Water Rsrce Rsrch Inst), Langemeier, Michael R., and Shroyer,

**KANSAS CENTER FOR AG RESOURCES AND THE ENVIRONMENT / KANSAS WATER RESOURCE RESSEARCH INSTITUTE**

Devlin, Daniel L., Kansas Department of Health and Environment, $202,045, "Kanopolis Reservoir - Big Creek Middle Smoky Hill River Watersheds WRAPS Implementation."

Devlin, Daniel L., and Barnes, Philip L., Kansas Department of Health and Environment, $259,695 (includes $68,714 from cooperator support), "KS WRAPS -- Little Arkansas WRAPS Implementation Project SFY 12."

Devlin, Daniel L., Kansas Department of Health and Environment, $109,568 (includes $17,550 from Cooperator Support), "KS WRAPS: Watershed Specialist Northeast KS SFY12."

Devlin, Daniel L., Barnes, Philip L. (Biological and Agricultural Engineering), Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Graber, Ronald W., Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), Nelson, Nathan O. (Agronomy), and Sheshukov, Aleksey Y. (Biological and Agricultural Engineering), US Department of Agriculture, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."


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, $126,894, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Devlin, Daniel L., Daniels, Melinda (Geography), and Nelson, Nathan O. (Agronomy), US Department of the Interior, $113,035 (includes $20,700 from Ks Ctr for Ag Resrce & Env/Ks Water Resr), "FY 2011 Kansas Water Resources Research Institute."


Devlin, Daniel L., US Environmental Protection Agency, $145,228 (includes $33,960 from Cooperator Support), "KS WRAPS KSU Watershed Specialist Southeast KS and Flinthills Watersheds SPY12."


Devlin, Daniel L., Leatherman, John C. (Agricultural Economics), and Sheshukov, Aleksey Y. (Biological and Agricultural Engineering), US Environmental Protection Agency, $28,132 (includes $1,736 from In kind support), "Nine Elements Watershed Planning Technical Assistance - Year 2."

Graber, Ronald W., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L., Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), Nelson, Nathan O. (Agronomy), and Sheshukov, Aleksey Y. (Biological and Agricultural Engineering), US Department of Agriculture, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."


Leatherman, John C., US Environmental Protection Agency, $16,505 (includes $4,058 from Outside Cooperators), "Cottonwood Implementation FY2012."

Leatherman, John C., US Environmental Protection Agency, $18,047 (includes $4,536 from In kind support), "Milford Lake Implementation FY2012."

**NORTHWEST RESEARCH EXTENSION CENTER**


Aiken, Robert M., Monsanto Company, $7,500, "Service Order #35 (Corn) - High pH Testing in the Western Corn Belt."

Aiken, Robert M., Monsanto Company, $69,300, "Service Order Number 32."

Aiken, Robert M., Multi-Sponsor, $9,140, "Sunflower Investigations."

Aiken, Robert M., Little, Christopher R. (Plant Pathology), Perumal, Ramasamy (Agricultural Research Center-Hays), and Tesso, Tesfaye (Agronomy), The United Sorghum Checkoff Program Board, $2,000, "Evaluation of Advanced A/B and R Lines under Multi-location Hybrid Trials to improve Sorghum Yields with Drought and Herbicide Tolerance under Water-deficit Conditions."

Aiken, Robert M., Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrcs & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R., Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $122,518, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Coyne, Patrick J., Multi-Sponsor, $14,190, "Sunflower Performance Testing Program."

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

**OFFICE OF ACADEMIC PROGRAMS**

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


PLANT PATHOLOGY


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

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

Bockus, William W., Multi-Sponsor, $6,550, "Seed Treatment."


DeWolf, Erick D., Multi-Sponsor, $7,000, "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."

DeWolf, Erick D., US Department of Agriculture, $5,000, "The Incursion of New Wheat Stem Rust Races into the United States: Preparation through Research, Education & Extension."


Friebe, Bernd, Bill and Melinda Gates Foundation, $169,507, "Durable Rust Resistance in Wheat - Phase II."


Garrett, Karen A., Jumpponen, Ari M. (Biology), and Kennelly, Megan, The Ceres Trust, $37,328, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

Garrett, Karen A., Hutchinson, J. M. Shawn (Geography), Scoglio, Caterina M. (Electrical and Computer Engineering), and With, Kimberly A. (Biology), US Department of Agriculture, $72,614, "Optimizing Strategies for Rapid Response."

Gill, Bikram S., Genome Canada, $150,000, "BAC DNA."

Gill, Bikram S., Kansas Bioscience Authority, $300,000, "Trait Discovery Pipeline for Wheat."

Gill, Bikram S., Kansas Bioscience Authority, $100,000, "Wheat with Altered Starch Properties for Specific end Uses."


Gill, Bikram S., Kansas Wheat Commission, $100,000, "Wheat Genetic & Genomic Resources Center and Its Contributions to the Kansas Wheat Industry."
Gill, Bikram S., and Sehgal, Sunish K., King Abdulaziz University, $320,000 (includes $320,000 from King Abdulaziz University), "Research Collaboration Agreement and Transfer of KSU Materials to BGI-Hong Kong."

Gill, Bikram S., and Sehgal, Sunish K., King Abdulaziz University, $320,000, "Wheat Genome Analysis."

Gill, Bikram S., Monsanto Company, $83,190, "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., US Department of Agriculture, $27,801, "Norman E. Borlaug International Agricultural Science and Technology Fellowship Program."

Jardine, Douglas J., Multi-Sponsor, $15,000, "Soybean Foliar Fungicide and Seed Treatment Tests."

Jardine, Douglas J., North Central Soybean Research Program, $20,000, "Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach - Phase II."


Kennelly, Megan, Multi-Sponsor, $27,762, "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, 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), 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 Program for Kansas."

Kennelly, Megan, Atchison, Robert L. (Kansas Forest Service), Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Biles, Larry E. (Kansas Forest Service), Cloyd, Raymond A. (Entomology), O'Mara, Judith A., and Ricci, Nicole M.
Leslie, John F., and Poland, Jesse A. (Agronomy), Monsanto Company, $199,977, "Monsanto Beachell-Borlaug International Scholars Program (Mr. Jared I. Crain's PhD Study)."

Leslie, John F., Multi-Sponsor, $11,454, "Fusarium Research."

Leslie, John F., and Minton, J. Ernest (Agricultural Experiment Station), US Department of Agriculture, $29,040, "Acquisition of Good and Services 58-5430-1-939."

Leslie, John F., and Toomajian, Christopher, US Department of Agriculture, $100,586, "Fungal Genes that Limit or Prevent the Growth of Gibberella Zeae."

Leslie, John F., US Department of Agriculture, $134,312, "Genetics of Rust Pathogen Avirulence and Host Resistance in Hard Winter Wheat."


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


Little, Christopher R., Perumal, Ramasamy (Agricultural Research Center-Hays), and Tesso, Tesfaye (Agronomy), Kansas Grain Sorghum Commission, $22,400, "Screening Exotic Sorghum Germplasm to Identify New Sources of Stalk Rot Resistance."

Little, Christopher R., Aiken, Robert M. (Northwest Research Extension Center), Perumal, Ramasamy (Agricultural Research Center-Hays), and Tesso, Tesfaye (Agronomy), The United Sorghum Checkoff Program Board, $2,000, "Evaluation of Advanced A/B and R Lines under Multi-location Hybrid Trials to improve Sorghum Yields with Drought and Herbicide Tolerance under Water-deficit Conditions."

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

Little, Christopher R., US Department of Agriculture, $15,000, "Enhancement of Cold Tolerance in Sorghum."
O'Mara, Judith A., Atchison, Robert L. (Kansas Forest Service), Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Biles, Larry E. (Kansas Forest Service), Cloyd, Raymond A. (Entomology), Kennelly, Megan, and Ricci, Nicole M. (Kansas Forest Service), US Department of Agriculture, "Professional Development Training for Sustainable Agroforestry in Kansas."

Rotenberg, Dorith, Bockus, William W., and Whitfield, Anna E., Kansas Bioscience Authority, $149,999, "Enabling Biotechnological Breakthroughs for Effective Control of Wheat Virus Diseases in Kansas."

Sehgal, Sunish K., and Gill, Bikram S., King Abdulaziz University, "Research Collaboration Agreement and Transfer of KSU Materials to BGI-Hong Kong."

Sehgal, Sunish K., and Gill, Bikram S., King Abdulaziz University, "Wheat Genome Analysis."

Stack, James P., European Commission, $93,365, "Plant and Food Biosecurity."

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

Stack, James P., US Department of Agriculture, $50,000, "Great Plains Diagnostic Network."

Stack, James P., US Department of Agriculture, $6,000, "Kansas State University FADI Meeting."

Stack, James P., US Department of Agriculture, $65,000, "Plant Diagnostic Laboratories for Plant Disease and Pest Diagnosis and Surveillance."

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

Todd, Timothy C., Kusel, Kelly R. (Southeast Agricultural Research Center), Schapaugh Jr, William T. (Agronomy), and Trick, Harold N., Kansas Soybean Commission, $87,019, "Trait and Production Efficiency Enhancement in Soybean."

Todd, Timothy C., Fellers, John P., Fritz, Allan K. (Agronomy), and Trick, Harold N., Kansas Wheat Alliance, "Enhance Grain Filling of Wheat During High Temperatures."

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

Todd, Timothy C., Multi-Sponsor, $40,000, "Nematode and Soybean Research."
Todd, Timothy C., Li, Jiarui, and Trick, Harold N., North Central Soybean Research Program, "Engineered Resistance to Soybean Cyst Nematodes via Induced Gene Silencing (RNAi)."


Toomajian, Christopher, National Science Foundation, $44,661, "Arabidopsis 2010: Transcriptomes for Functional and Evolutionary Studies."

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

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., Fellers, John P., Fritz, Allan K. (Agronomy), and Todd, Timothy C., Kansas Wheat Alliance, "Enhance Grain Filling of Wheat During High Temperatures."

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

Trick, Harold N., Li, Jiarui, and Todd, Timothy C., North Central Soybean Research Program, $320,023, "Engineered Resistance to Soybean Cyst Nematodes via Induced Gene Silencing (RNAi)."


Trick, Harold N., US Department of Agriculture, $25,764, "Exploring the Role of Ethylene Signaling in Fusarium Head Blight (FHB) Resistance and Susceptibility."
Valent, Barbara S., Centro Internacional de Agricultura Tropical, $133,793, "Fellowship Agreement."

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

Valent, Barbara S., and Park, Sunghun (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, $464,778, "Manipulation of Plasmodesmata by Magnaporthe Orysze During Rice Blast Disease."

White, Frank F., National Science Foundation, $905,704, "Collaborative Research CEPR: Transcription Profiling and Functional Analyses of Bacterial Disease Susceptibility Pathways of Rice."

White, Frank F., US Department of Agriculture, $500,000, "Biochemical Function of the Type III TAL Effectors in Bacterial Citrus Canker."

Whitfield, Anna E., Biotechnology Research and Development Corporation, $93,061, "Targeting Thrips and Tospoviruses with Bt Toxins."

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

Whitfield, Anna E., and Smith, C. Michael (Entomology), Kansas Wheat Commission, $22,250, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

Whitfield, Anna E., National Science Foundation, $198,171, "CAREER: Molecular Mechanisms of Virus-Vector Interactions."

SOUTHEAST AGRICULTURAL RESEARCH CENTER


Moyer, Joseph L., Multi-Sponsor, $1,240, "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., Monsanto Company, $11,970, "Service Order No. 39."

Currie, Randall S., Multi-Sponsor, $22,700, "Weed Control Research in Southwest Kansas."


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

Holman, Johnathon D., Heer, William F. (Agronomy), Roozeboom, Kraig L. (Agronomy), and Stamm, Michael J. (Agronomy), US Department of Agriculture, "Promoting and Disseminating Good Farming Practices and Risk Management Education for Winter Canola to Farmers and Ranchers in the Topeka, Kansas Region of RMA."

Holman, Johnathon D., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Klocke, Norman L., Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J., Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $96,264, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

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


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

Schlegel, Alan J., and Holman, Johnathon D., Multi-Sponsor, $81,370, "Soil Fertility and Soil Management Research for Western Kansas."

Schlegel, Alan J., Multi-Sponsor, $3,800, "Variety Testing of Alternative Crops."


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 Department of Agriculture, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

INTERIOR ARCHITECTURE AND PRODUCT DESIGN

Ankerson, Katherine S., Nuckolls Fund for Lighting Education, Inc., $27,262, "Lighting Across the (Design) Curriculum."

Canfield, Jessica, Landscape Architecture Foundation, $6,720, "2012 LAF Case Study Investigation."
LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING


Gibson, Huston, City of St. Marys, KS, $453, "St. Mary's Project - The Riverside Park Plan."

Keane, Timothy D., Aistrup, Joseph (Political Science), and Barnes, Philip L. (Biological and Agricultural Engineering), National Science Foundation, $174,313, "CNH-Ex: Political Fragmentation in Local Governance & Water Resource Management."

Keane, Timothy D., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L. (Ks Ctr for Ag Rsces & the Env / Ks Water Rsrce Rsrch Inst), Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Graber, Ronald W. (Ks Ctr for Ag Rsces & the Env / Ks Water Rsrce Rsrch Inst), Langemeier, Michael R. (Agricultural Economics), Nelson, Nathan O. (Agronomy), and Sheshukov, Aleksey Y. (Biological and Agricultural Engineering), US Department of Agriculture, $85,500, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."


COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY


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., Erickson, Larry E. (Center for Hazardous Substance Research), Hettiarachchi, Ganga M. (Agronomy), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), Westar Energy, $9,104, "Westar Wetlands Project."

Durrett, Timothy P., National Science Foundation, $111,476, "Elucidating the Molecular Basis for the Unusual Substrate Specificity of an Acetyltransferase that Synthesizes Reduced-Viscosity Oils."


Kanost, Michael R., US Department of Health and Human Services, $26,000, "Recruitment Package: Timothy Durrett."

Kanost, Michael R., Culbertson, Christopher T. (Chemistry), and Michel, Kristin (Biology), US Department of Health and Human Services, $92,450, "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."


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."

Wei, Qize, US Department of Health and Human Services, $296,000, "Roles of MyoGEF in Cytokinesis."

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)."
**Asano, Katsura**, US Department of Health and Human Services, $74,000, "Molecular Basis of Control of Translational Initiation in Eukaryotes."

**Blair, John M.**, National Science Foundation, $131,085, "Collaborative Research: LTREB: The Role of Ecological Heterogeneity in a Long-Term Grassland Restoration Experiment."

**Blair, John M.**, National Science Foundation, $1,050,994, "Konza Prairie LTER VI: Grassland Dynamics and Long-Term Trajectories of Change."


**Briggs, John M.**, Caroline Peine Foundation, $38,000, "Increasing energy efficiency at the Konza Prairie Biological Station."

**Briggs, John M., Hartnett, David C., and Horne, Eva A.**, National Science Foundation, $238,030, "FSML: Expanded Lodging Capacity at the Konza Prairie Biological Station for the Enhancement of Research and Training Opportunities."

**Brown, Susan J., and Merrill, Doris R.**, US Department of Agriculture, $5,000, "15K Workshop: An International Effort to Sequence 5,000 of the World's Key Arthropod Species."


**Brown, Susan J.**, US Department of Health and Human Services, $204,907, "KSU Bioinformatics Core."

**Chapes, Stephen K.**, University of Kansas Medical Center Research Institute, Inc., $31,500, "STAR Trainees: Bigelow, Li, Sprigg - KINBRE."

**Chapes, Stephen K.**, US Department of Health and Human Services, $24,768, "Summer Scholars: Pierce, Pfannenstiel, Brass, Miller, Glover, Davis, Armbruster."

**Chapes, Stephen K.**, US Department of Health and Human Services, $52,970, "Undergraduate Coordinator Office - KINBRE."

**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, $1,100, "Ning Huang SalarySupport."
Clem, Rollie J., US Department of Agriculture, $81,102, "Evaluation of New Molecular Targets to Control Arbovirus Transmission."


Clem, Rollie J., and Herman, Michael A., US Department of Health and Human Services, $38,885, "Core Facility Support: PCR System, Spectrophotometer, Computer KINBRE."


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

Cully, Jr., Jack F., Lee, Charles D. (Animal Sciences and Industry), and Wisely, Samantha, Nature Conservancy, $11,000, "Smoky Valley Ranch Prairie Dog Management."

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


Dodds, Walter K., Columbus Zoological Park Association, $4,992, "The Influence of Patch-burn Grazing Management on Amphibian and Reptile Abundance and Diversity in Tall Grass Prairie - Danielle Russell."

Dodds, Walter K., Missouri Department of Conservation, $36,450, "Ecological Integrity of Prairie Streams as Influenced by Patchburn Grazing and Riparian Protection."

Dodds, Walter K., and Gido, Keith B., National Science Foundation, $642,741, "Collaborative Research: Stream Consumers and Lotic Ecosystem Rates (SCALER): Scaling from Centimeters to Continents."

Dodds, Walter K., Andresen, Daniel A. (Computing and Information Sciences), Caragea, Doina (Computing and Information Sciences), Esry, Brett D. (Physics), and Steward, David R. (Civil Engineering), National Science Foundation, $70,000, "MRI:
Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering.

**Ferguson, Carolyn J., Bolton, Timothy A.** (Physics), **Maatta, Eric A.** (Chemistry), **Rebello, Nobel S.** (Physics), and **Tanona, Scott** (Philosophy), National Science Foundation, $1,115,753, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

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

**Gido, Keith B.,** US Department of the Interior, $261,113 (includes $73,961 from Sub & Consultant), "Metacommunity Dynamics of Gila River Fishes."

**Gido, Keith B.,** and **Daniels, Melinda** (Geography), US Department of the Interior, $124,473, "Reproductive Life History of Great Plains Pelagic-Spawning Fishes in the Ninnescah River, Kansas."


**Gido, Keith B.,** US Department of the Interior, $61,425, "Use and Importance of Tributaries to Sustaining Native Fish Communities in San Juan River."

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

**Govind, Revathi,** US Department of Health and Human Services, $74,000, "Structure Function Studies on Clostridium Difficile Anti-Sigma Factor TcdC."

**Govind, Revathi,** US Department of Health and Human Services, $211,000, "ToxinSecretion in Clostridium Difficile."

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

**Hartnett, David C., Briggs, John M.,** and **Horne, Eva A.**, National Science Foundation, "FSML: Expanded Lodging Capacity at the Konza Prairie Biological Station for the Enhancement of Research and Training Opportunities."

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


Horne, Eva A., Briggs, John M., and Hartnett, David C., National Science Foundation, "FSML: Expanded Lodging Capacity at the Konza Prairie Biological Station for the Enhancement of Research and Training Opportunities."


Johnson, Loretta C., Nelson, Richard G. (Chemical Engineering), Wang, Donghai (Biological and Agricultural Engineering), and Yuan, Wenqiao (Biological and Agricultural Engineering), US Department of Transportation, $15,000, "Evaluation of the Potential of Big Bluestem for Biofuel Production."

Jumpponen, Ari M., Garrett, Karen A. (Plant Pathology), and Kennelly, Megan (Plant Pathology), The Ceres Trust, $21,923, "Part II: The Response of Soil Microbial Communities to Nutrient Management and High Tunnels."

Jumpponen, Ari M., US Department of Agriculture, $30,021, "Soil Microbial Community Composition in a Long-Term, Prescribed Fire Study on the Georgia Piedmont."

Lee, Stella Yu-Chien, US Department of Health and Human Services, $20,000, "Recruitment Package: Stella Lee."


Mather, Martha E., US Department of the Interior, "Neosho Madtom Stream Obstruction Project."


Mather, Martha E., US Department of the Interior, "Neosho Madtom Stream Obstruction Project."


Merrill, Doris R., and Brown, Susan J., US Department of Agriculture, "15K Workshop: An International Effort to Sequence 5,000 of the World's Key Arthropod Species."

Michel, Kristin, US Department of Agriculture, $94,775, "Molecular Characterization of Factors Affecting Competence of Insects for Virus Infection and Transmission."

Michel, Kristin, Culbertson, Christopher T. (Chemistry), and Kanost, Michael R. (Biochemistry), US Department of Health and Human Services, $225,579, "The Function of Serpin-2 in Mosquito Immunity and Physiology."

Morgan, Theodore J., National Science Foundation, $210,000, "LIT: Collaborative Research: Integrating Physiological and Genetic Mechanisms to Understand the Evolution of Cold Tolerance."


Nippert, Jesse B., National Science Foundation, $26,358, "Ecosystem Transformations Along the Colorado Front Range: Prairie Dog Interactions with Multiple Components of Global Environmental Change."

Olson, Bradley J., US Department of Health and Human Services, $20,000, "Recruitment Package: Bradley Olson."


Roelofs, Jeroen, US Department of Health and Human Services, $253,132, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle."
Roelofs, Jeroen, and Asano, Katsura, US Department of Health and Human Services, $10,384, "Mechanism of Chaperone-assisted Assembly of Proteasome Regulatory Particle (Mentor)."


Schrick, Kathrin, National Science Foundation, $432,091, "The Impact of Sterol Biogenesis on Cellulose Synthesis in Higher Plants."


Spooner, Brian S., Kansas State University Foundation, $90,200, "Biology Research Career Development Core."

Spooner, Brian S., Kansas State University Foundation, $141,601, "Cancer Center Core."

Tazi, Loubna, US Department of Health and Human Services, $29,700, "Molecular Epidemiology of Neisseria Gonorrhoeae."

Veeman, Michael, US Department of Health and Human Services, $20,000, "Recruitment Package: Michael Veeman."


Wisely, Samantha, US Department of the Interior, $12,000, "Monitoring of Black-footed Ferret Populations at Reintroduction Sites in Kansas."

With, Kimberly A., Garrett, Karen A. (Plant Pathology), Hutchinson, J. M. Shawn (Geography), and Scoglio, Caterina M. (Electrical and Computer Engineering), US Department of Agriculture, $13,615, "Optimizing Strategies for Rapid Response."
CHEMISTRY

Aakeroy, Christer B., Syngenta Crop Protection, LLC, $7,929, "Research Agreement."

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

Bossmann, Stefan, US Department of Health and Human Services, $16,492, "Detection of Cancer-Specific Active Proteases in Urine and Blood via Fluorescence."

Culbertson, Christopher T., and Bossmann, Stefan, National Science Foundation, $115,000, "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, $51,772, "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. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $4,500, "Expeditionary Capabilities Consortium."


Hua, Duy H., Alzheimer’s Drug Discovery Foundation & Institute for the Study of, $4,000, "Tricyclic Pyrone Compounds and Axonal Trafficking Dysfunction in AD."

Hua, Duy H., and Chang, Kyeong-Ok (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, $417,853, "Development of Novel Therapeutic Agents for Norovirus Infection."

Hua, Duy H., and Nguyen, Thu A. (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, $51,066, "The Molecular Target of Gap Junction Enhancers."


Jankowiak, Ryszard J., US Department of Energy, $320,000, "Resonant and Non-resonant Hole-burning and Delta Fluorescence Line-narrowing Study of BCh1s in Excitonically Coupled Photosynthetic Systems."
Klabunde, Kenneth J., and Sorensen, Christopher M. (Physics), US Department of Energy, $75,000, "Nanoscale Molecules under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"."

Li, Jun, National Science Foundation, $293,684, "Nanotechnology for RenewableEnergy."

Li, Ping, US Department of Health and Human Services, $74,000, "Expression and Purification of an Obesity-Important Enzyme hGOAT in E. coli."

Maatta, Eric A., Bolton, Timothy A. (Physics), Ferguson, Carolyn J. (Biology), Rebello, Nobel S. (Physics), and Tanona, Scott (Philosophy), National Science Foundation, "Evidence-based Inquiry into the Distant, Remote, or Past (EIDRoP): Linking Evidence to Inference in the Kansas Science Classroom."

Smith, Paul E., US Department of Health and Human Services, $214,642, "Accurate Simulations of Peptide Aggregation."

**GEOGRAPHY**

Daniels, Melinda, National Science Foundation, $11,695, "Doctoral Dissertation Research: Thermal, Hydraulic and Geomorphological Dynamics at Stream Confluences (Katie Costigan)."

Daniels, Melinda, US Department of Agriculture, $15,000, "Impacts of Large-Scale Forest Loss on Stream Channel Form, Process and Sedimentation."

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

Daniels, Melinda, and Gido, Keith B. (Biology), US Department of the Interior, "Reproductive Life History of Great Plains Pelagic-Spawning Fishes in the Ninnescah River, Kansas."

Daniels, Melinda, US Department of the Interior, $14,000, "Wildcat Creek Memorandum of Agreement."

Daniels, Melinda, US Environmental Protection Agency, $24,162, "EPA STAR Fellowship (Mehl)."

Harrington Jr, John A., National Geographic Education Foundation, $32,000, "Kansas 2011/2012 Alliance Grant."

Harrington Jr, John A., National Science Foundation, $65,920, "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, Garrett, Karen A. (Plant Pathology), Scoglio, Caterina M. (Electrical and Computer Engineering), and With, Kimberly A. (Biology), US Department of Agriculture, $13,615, "Optimizing Strategies for Rapid Response."

McLauchlan, Kendra K., National Science Foundation, $125,502, "CAREER: Ecosystem Change in Forests and Grasslands from Decades to Millenias: A Retrospective Approach."

McLauchlan, Kendra K., National Science Foundation, $29,917, "Ecosystem Response to Disturbance from Decadal to Millennial Timescales: Support for the PROBE Workshop."

McLauchlan, Kendra K., National Science Foundation, $74,835, "RCN: The Novus Project for Integrating Paleo- and Neo-ecosystem Ecology."

Smith, Jeffrey S., The Society of Women Geographers, $12,747, "Understanding Architectural Significance and the Process of Change in Kinnaur District, Himachal Pradesh, India (Melissa Belz)."

GEOLOGY

Datta, Saugata, National Science Foundation, $60,226, "Collaborative Research: Chemical Hydrogeologic Investigations of Tungsten: Field, Laboratory, and Modeling Studies of an Emerging Environmental Containment."


Datta, Saugata, US Department of Energy, $130,709, "Small Scale Field Test Demonstrating CO2 Sequestration in Arbuckle Saline Aquifer and by CO2-EOR at Wellington Field, Sumner County, Kansas."

Oviatt, Charles G., National Science Foundation, $47,470, "Collaborative Research: Undocumented Shorelines of Lake Bonneville: New Paleoclimatic and Hydrodynamic Interpretations."

Peterson, Jeffrey M., Aistrup, Joseph (Political Science), Bergtold, Jason S. (Agricultural Economics), and Kulcsar, Laszlo (Sociology, Anthropology, and Social Work), National Science Foundation, $50,116, "Farmers' Decisions to Grow Crops for Fuel."


HISTORY

Lynn-Sherow, Bonnie, Brunswick Corporation, $18,000, "Brunswick Graduate Student Award in History."

Lynn-Sherow, Bonnie, Kansas State University Foundation, $25,000, "Chapman Center for Personnel."

KINESIOLOGY

Barstow, Thomas J., Day, Dwight D. (Electrical and Computer Engineering), Gruenbacher, Don M. (Electrical and Computer Engineering), Kuhn, William B. (Electrical and Computer Engineering), Natarajan, Balasubramaniam (Electrical and Computer Engineering), Sobering, Timothy J. (Vice President Electronics Design Laboratory), and Warren, Steven (Electrical and Computer Engineering), Kansas Board of Regents, $10,900, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Barstow, Thomas J., Day, Dwight D. (Electrical and Computer Engineering), Gruenbacher, Don M. (Electrical and Computer Engineering), Kuhn, William B. (Electrical and Computer Engineering), Natarajan, Balasubramaniam (Electrical and Computer Engineering), Sobering, Timothy J. (Vice President Electronics Design Laboratory), and Warren, Steven (Electrical and Computer Engineering), National Aeronautics and Space Administration, $47,535, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."
Barstow, Thomas J., Schinstock, Dale E. (Mechanical and Nuclear Engineering), and Warren, Steven (Electrical and Computer Engineering), National Aeronautics and Space Administration, $150,000, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."


Kaczynski, Andrew T., and Heinrich, Katie M., Sunflower Foundation, $22,422, "Evaluation of the Sunflower Trails Program."

Poole, David C., American Heart Association, Midwest Affiliate, $2,000, "Chronic Pentoxify Line Administration in the Treatment of CHF - Undergraduate Research Project (Gabrielle Sims)."

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

MATHEMATICS


Alston, Garrett, National Science Foundation, $52,688, "Floer Theory in Examples of Interest to Mirror Symmetry."

Alston, Garrett, and Soibelman, Yan S., National Science Foundation, $23,050, "Mirror Symmetry in the Midwest."

Hart, Derrick N., National Science Foundation, $69,634, "Expanders, Fourier Analysis and Point-Curve Incidence Theory."

Poggi-Corradini, Pietro, National Science Foundation, $187,267, "Problems in Function Theory with Applications."

Reznikoff, Sarah, National Science Foundation, $156,595, "Graph C*-Algebras, Special Subalgebras, and Applications."

Soibelman, Yan S., and Alston, Garrett, National Science Foundation, "Mirror Symmetry in the Midwest."

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

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

**PHILOSOPHY**

Tanona, Scott, Bolton, Timothy A. (Physics), Ferguson, Carolyn J. (Biology), Maatta, Eric A. (Chemistry), 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."

**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., Ferguson, Carolyn J. (Biology), Maatta, Eric A. (Chemistry), Rebello, Nobel S., and Tanona, Scott (Philosophy), 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., National Science Foundation, $82,500, "PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector."


Chang, Zenghu, Cocke, Charles L., and Lei, Shuting (Industrial and Manufacturing Systems Engineering), US Department of Defense, $729,167, "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, $132,657, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

Corwin, Kristan L., and Washburn, Brian R., US Department of Defense, $800,000, "Gas Filled Hollow Core Fiber Lasers Based on Population Inversion."

Esry, Brett D., Andresen, Daniel A. (Computing and Information Sciences), Caragea, Doina (Computing and Information Sciences), Dodds, Walter K. (Biology), and Steward, David R. (Civil Engineering), National Science Foundation, $140,000, "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering."


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


Ratra, Bharat, National Science Foundation, $89,999, "Collaborative Research: Cosmic Magnetic Fields: Evolution and Signatures."

Rebello, Nobel S., Bill and Melinda Gates Foundation, $14,810, "Enhancing Literacy in Science Through Digital Text, Simulations and Design Challenges."

Rebello, Nobel S., Bolton, Timothy A., Ferguson, Carolyn J. (Biology), Maatta, Eric A. (Chemistry), and Tanona, Scott (Philosophy), 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., Staples, Kimberly A. (Curriculum and Instruction), and Zollman, Dean A., National Science Foundation, $199,993, "TUES: Infusing Pedagogical Content Knowledge into a Physics Course for Future Elementary Teachers."

Sayre, Eleanor C., National Science Foundation, $88,237, "Collaborative Research: Developing a Tool for Teachers to Assess Real-Time Learning and Forgetting in Large Classes."


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), Caitin, Inc, "Equipment Received in Support of the Development of a Water Based, Critical Flow, non-Vapor Compression Cooling CycleProject."

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, $61,231, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

Sorensen, Christopher M., and Klabunde, Kenneth J. (Chemistry), US Department of Energy, $75,000, "Nanoscale Molecules under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"."


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


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

Zollman, Dean A., Rebello, Nobel S., and Staples, Kimberly A. (Curriculum and Instruction), National Science Foundation, "TUES: Infusing Pedagogical Content Knowledge into a Physics Course for Future Elementary Teachers."

POLITICAL SCIENCE

Aistrup, Joseph, Barnes, Philip L. (Biological and Agricultural Engineering), and Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), National Science Foundation, $37,353, "CNH-Ex: Political Fragmentation in Local Governance & Water Resource Management."

Aistrup, Joseph, Bergtold, Jason S. (Agricultural Economics), Kulcsar, Laszlo (Sociology, Anthropology, and Social Work), and Peterson, Jeffrey M. (Agricultural Economics), National Science Foundation, $50,116, "Farmers' Decisions to Grow Crops for Fuel."

Murdie, Amanda, and Beardsley, Craig A. (National Agricultural Biosecurity Center), Kauffman Foundation, "Conditional Effectiveness of Military and Civilian Human Security Effects."

PSYCHOLOGY

Frieman, Jerome, and Monaco, Gregory E., Great Plains Network Consortium, $202,759, "Funding for Executive Director - Great Plains Network."


Loschky, Lester C., and Rebello, Nobel S. (Physics), National Science Foundation, "FIRE: Exploring Visual Cueing to Facilitate Problem Solving in Physics."
Loschky, Lester C., US Department of Defense, $522,544, "A New Measure of the Useful Field of View (UFOV): The Gaze-Contingent Peripheral Blur Detection Task."

McDaniel, Brenda, John Templeton Foundation, $199,429, "Structure and Consistency of Character."

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

SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

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

Muturi, Nancy W., Adhikari, Koushik (Human Nutrition), and Kidd, Tandalayo (Human Nutrition), US Department of Agriculture, "Community-Based Participatory Research (CBPR) Model in Preventing Overweight and Obesity among 6th-8th grade youth in lowincome racial/ethnic communities."

Powers, Angela, and Furnas, Linda S., Journalism Education Association, $388,368, "Establishment of the Journalism Education Association National Headquarters at Kansas State University."

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK


Kulcsar, Laszlo, Aistrup, Joseph (Political Science), Bergtold, Jason S. (Agricultural Economics), and Peterson, Jeffrey M. (Agricultural Economics), National Science Foundation, $50,116, "Farmers' Decisions to Grow Crops for Fuel."

Roper, Donna C., US Department of the Interior, $4,962 (includes $1,170 from In-kind support), "Radiocarbon Dating Upper Republican Sites in Western Kansas."


Sanderson, Matthew R., Rural Sociological Society, $1,000, "Mexican Immigration in Rural New Destinations."
STATISTICS


Murray, Leigh W., Peterman, Robert J. (Civil Engineering), and Riding, Kyle (Civil Engineering), Precast/Prestressed Concrete Institute, $29,553, "Determination of Acceptance Criteria for Prestressing Strand in Pretensioned Applications."

COLLEGE OF BUSINESS ADMINISTRATION

MANAGEMENT


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

COLLEGE OF EDUCATION

CURRICULUM AND INSTRUCTION

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

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

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

Spears, Jacqueline D., Mid-Continent Regional Educational Laboratory, Inc., $4,014, "Technical Assistance to Kansas and Missouri: Student Mobility, State Assessment Predictive Qualities for College Performance, and Educator Preparation Programs' Impact on Student Achievement Proposal to REL Central of McREL."

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

Staples, Kimberly A., Rebello, Nobel S. (Physics), and Zollman, Dean A. (Physics), National Science Foundation, "TUES: Infusing Pedagogical Content Knowledge into a Physics Course for Future Elementary Teachers."
Vontz, Thomas, US Department of Education, "Kansas - We the People: The Citizen and the Constitution - 2010."

**DEAN OF EDUCATION**

Dalton, Andrew, US Department of Education, $733,490, "Project KANCO."

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, $119,463, "Kansas Foundation for Agriculture in the Classroom."

Havlicek, Barbara J., Multi-Sponsor, $4,676, "Council for Public School Improvement."

Havlicek, Barbara J., Multi-Sponsor, $71,944, "Educational Computer Assistance."

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


Herrera, Socorro G., US Department of Education, $399,991, "Project KORE."


Herrera, Socorro G., US Department of Education, $197,071, "Project PEER."


Middendorf, B. Jan, Kansas Board of Regents, $250,000, "Kan-ed Evaluation - Phase VIII."

Middendorf, B. Jan, National Science Foundation, $16,632, "ADVANCE LEADER Consortium."

Middendorf, B. Jan, National Science Foundation, $110,038, "Evaluation Services, Track 1 Experimental Program to Stimulate Competitive Research (EPSCoR)."

Middendorf, B. Jan, National Science Foundation, $15,439, "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, "Louisana's Cyber Connectivity via LONI: Xavier Contract."

Middendorf, B. Jan, and Shuman, Cindy, National Science Foundation, $307,046, "Research in Disabilities Education Synthesis Project (RDE-SP)."
Middendorf, B. Jan, US Department of Agriculture, $30,000, "Solutions for the Food Safety Threat Posed by Salmonella in the Lymph Nodes of Cattle Presented for Harvest."


Murry, Kevin G., US Department of Education, $199,242, "Project SOAR."

Murry, Kevin G., US Department of Education, $266,436, "Project TEACH."


Rankin, Charles I., US Department of Education, $678,904, "Midwest Equity Assistance Center."

Shroyer, Margaret G., Allen, David S. (Curriculum and Instruction), and Spears, Jacqueline D. (Curriculum and Instruction), Kansas Board of Regents, $108,874, "Supporting Transitions."

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

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

Spears, Jacqueline D., Bean, Nathan (Computing and Information Sciences), Neilsen, Mitchell L. (Computing and Information Sciences), Singh, Gurdip (Computing and Information Sciences), and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, $37,500, "CI-TEAM Demonstration Project: TRENDS: Training the Next Generation Workforce in Real-time Data and Simulation Technologies."

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, $114,207, "Infusing System Design and Sensor Technology in Education."

Spears, Jacqueline D., National Science Foundation, $131,042, "Math Matters: Transition from High School to Postsecondary Education."
Thurston, Linda P., National Science Foundation, $43,245, "National Science Foundation - Intergovernmental Personnel Act."

Vontz, Thomas, US Department of Education, $5,381, "Kansas - We the People: The Citizen and the Constitution - 2010."

EDUCATIONAL LEADERSHIP

Lindsey, Matthew, Corporation for National and Community Service, $66,106, "Kansas Campus Compact."

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE


Kramer, Bradley A., Kansas Department of Commerce, $407,419, "Kansas Department of Commerce University Center FY12 Core Grant."

Kramer, Bradley A., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."


Kramer, Bradley A., Case, Scott A., Jones, Taylor S., and Tucker, Jeffrey W., Multi-Sponsor, $628,276, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Tucker, Jeffrey W., Harvey County KS Economic Development Council, Inc., $32,500, "Regional Innovation Readiness Assessment Project (P12-0024)."


ARCHITECTURAL ENGINEERING AND CONSTRUCTION SCIENCE

Fritchen, David R., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Hasler, Fred L., Crestron Electronics, Inc., $16,322, "Lighting Controls Curriculum."

Keen, Julia A., Riding, Kyle (Civil Engineering), and Stokes, Robert W. (Civil Engineering), Kansas Department of Transportation, $44,400, "Carbon Emissions and Energy Efficiency (Phase 2): Improving Energy and Fuel Efficiencies in KDOT Operations."

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Alam, Mahbub U., US Department of Agriculture, $14,850, "SPS Capacity Building in Bangladesh."

Barnes, Philip L., Aistrup, Joseph (Political Science), and Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), National Science Foundation, $37,353, "CNH-Ex: Political Fragmentation in Local Governance & Water Resource Management."

Barnes, Philip L., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Douglas-Mankin, Kyle R., Graber, Ronald W. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), Nelson, Nathan O. (Agronomy), and Sheshukov, Aleksey Y., USDApartment of Agriculture, "Measuring Success of Targeted BMP Implementation"
and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."

Brokesh, Edwin L., University of Kansas Medical Center, $1,000, "Cadaver Lift."


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

Douglas-Mankin, Kyle R., Barnes, Philip L., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Graber, Ronald W. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), Nelson, Nathan O. (Agronomy), and Sheshukov, Aleksey Y., US Department of Agriculture, $399,000, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."

Ebert, Kerri L., and Hadley, Gregg L. (Agriculture and Natural Resources), US Department of Agriculture, "Kansas SARE - Kansas 2012 State PDP Chapter 1 Program."

Ebert, Kerri L., and Hadley, Gregg L. (Agriculture and Natural Resources), US Department of Agriculture, "Kansas SARE - Kansas 2012 State PDP Chapter 3 Program."

Harner III, Joseph P., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Advanced Manufacturing Institute), and Singh, Gurdeep (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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


Hutchinson, Stacy L., Davis, Lawrence C. (Biochemistry), Erickson, Larry E. (Center for Hazardous Substance Research), and Hettiarachchi, Ganga M. (Agronomy), Westar Energy, $36,417, "Westar Wetlands Project."


Maghirang, Ronaldo G., US Department of Agriculture, $10,000, "Mechanistic Modeling of Wind Barriers and Grain Commingling Using CFD and DEM."

Price, Randy R., American Sugar Cane League, $17,000, "Development of New Technologies to Estimate Sugarcane Yields and Improve Mechanical Planters."

Rogers, Danny H., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Varra (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $4,376, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

Sheshukov, Aleksey Y., Barnes, Philip L., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Douglas-Mankin, Kyle R., Graber, Ronald W. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Keane, Timothy D. (Landscape Architecture/Regional and Community Planning), Langemeier, Michael R. (Agricultural Economics), and Nelson, Nathan O. (Agronomy), US Department of Agriculture, "Measuring Success of Targeted BMP Implementation and Getting Smarter about Ephemeral Gully Sediment and Nutrient Sources and BMPs."

Sheshukov, Aleksey Y., Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and Leatherman, John C. (Agricultural Economics), USEnvironmental Protection Agency, $28,132 (includes $1,736 from In kind support), "Nine Elements Watershed Planning Technical Assistance - Year 2."
Slocombe, John W., US Department of Agriculture, $162,000, "Kansas AgrAbilityProject."

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

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, $17,500, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

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

Wang, Donghai, and Hohn, Keith L. (Chemical Engineering), National Science Foundation, $3,000, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."

Wang, Donghai, and Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), National Science Foundation, $11,000, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

Wang, Donghai, and Sun, X. Susan (Grain Science and Industry), United Soybean Board, $28,266, "Scale-up Feasibility Studies of Soy Protein-based Adhesives."

Wang, Donghai, US Department of Agriculture, $50,000, "Developing Technology and Procedures to Measure Characteristics of Grain and Plants."

Wang, Donghai, Staggenborg, Scott A. (Agronomy), Tesso, Tesfaye (Agronomy), and Yu, Jianming (Agronomy), US Department of Agriculture, $192,000, "Sorghum Biomass Genomics and Phenomics."

Wang, Donghai, US Department of Agriculture, $80,688, "Value-Added Utilization of Biochar in Syngas Cleanup and Conditioning."

Wang, Donghai, US Department of Transportation, $36,610, "Commercialization of Identity Preserved Grain Sorghum with Optimized Endosperm Matrices for Enhanced Bioethanol Conversion and High Lysine DDG Feed and Food Value."

Wang, Donghai, Johnson, Loretta C. (Biology), Nelson, Richard G. (Chemical Engineering), and Yuan, Wenqiao, US Department of Transportation, $45,000, "Evaluation of the Potential of Big Bluestem for Biofuel Production."
Yuan, Wenqiao, National Science Foundation, $99,822, "EAGER/Collaborative Research: Solid Freeform Fabrication of a Prototype Artificial Photosynthesis Device."

Yuan, Wenqiao, Johnson, Loretta C. (Biology), Nelson, Richard G. (Chemical Engineering), and Wang, Donghai, US Department of Transportation, "Evaluation of the Potential of Big Bluestem for Biofuel Production."

Zhang, Naiqian, Bean, Nathan (Computing and Information Sciences), Neilsen, Mitchell L. (Computing and Information Sciences), Singh, Gurdip (Computing and Information Sciences), and Spears, Jacqueline D. (Dean of Education), National Science Foundation, $25,000, "CI-TEAM Demonstration Project: TRENDS: Training the Next Generation Workforce in Real-time Data and Simulation Technologies."

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, $114,207, "Infusing System Design and Sensor Technology in Education."


CENTER FOR HAZARDOUS SUBSTANCE RESEARCH

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

Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A., US Department of Defense, $10,350, "Expeditionary Capabilities Consortium."

Erickson, Larry E., Davis, Lawrence C. (Biochemistry), Hettiarachchi, Ganga M. (Agronomy), and Hutchinson, Stacy L. (Biological and Agricultural Engineering), Westar Energy, $9,104, "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. (Office of the Vice President for Research), US Department of Defense, "Expeditionary Capabilities Consortium."

Leven, Blase A., US Environmental Protection Agency, $2,003, "NCER-Peer Review."
Leven, Blase A., US Environmental Protection Agency, $842, "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., and Boguski, Terrie K., US Environmental Protection Agency, $500,244, "Technical Assistance to Brownfields Communities, Zone 3."

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

Edgar, James H., Jones, Byron W. (Engineering Experiment Station), and Schulz, Noel N. (Electrical and Computer Engineering), Kansas Board of Regents, $18,333, "Kansas Defense 2010 (FY09)."

Edgar, James H., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Edgar, James H., and Geuther, Jeffrey A. (Mechanical and Nuclear Engineering), National Science Foundation, $1,399, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."


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

Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $900, "Expeditory Capabilities Consortium."
Hohn, Keith L., and Wang, Donghai (Biological and Agricultural Engineering), National Science Foundation, $3,000, "Acid-Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Biomass."


Hohn, Keith L., US Department of Defense, $300,000, "Bimetallic Nanoparticle Catalysts for Reforming of Logistics Fuels."


Nelson, Richard G., Johnson, Loretta C. (Biology), Wang, Donghai (Biological and Agricultural Engineering), and Yuan, Wenqiao (Biological and Agricultural Engineering), US Department of Transportation, $15,000, "Evaluation of the Potential of Big Bluestem for Biofuel Production."

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

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., Douglas-Mankin, Kyle R. (Biological and Agricultural Engineering), Peterson, Jeffrey M. (Agricultural Economics), and Pfromm, Peter H., National Science Foundation, $644,779, "IGERT: From Crops to Commuting: Integrating the Social, Technological, and Agricultural Aspects of Renewable and Sustainable Biorefining (I-STAR)."


CIVIL ENGINEERING

Bhandari, Alok, Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Kramer, Bradley A. (Advanced Manufacturing Institute), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Dissanayake, Sunanda, Kansas Department of Transportation, $79,000, "Evaluation of Bypass Lane Safety, Operations, and Design in Kansas."

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

Hossain, Mustaque A., Kansas Department of Transportation, $40,000, "Administration of KDOT/KTRAN Program."

Hossain, Mustaque A., Kansas Department of Transportation, $38,000, "Durable Superpave (SM and SR) Mixes in Kansas."


Hossain, Mustaque A., US Department of Transportation, $197,784, "Consortium of Accelerated Pavement Testers (CAPT) Program Development and Management (CISL #19)."

Hossain, Mustaque A., US Department of Transportation, $134,100, "Well Bonded Superpave Overlays on HMA (CISL Experiment No. 17)."


Mladenov, Natalie, National Science Foundation, $12,710, "International Planning Visit: Investigating the Interactions Between Dissolved Organic Matter, Microbial Communities, and Arsenic Biogeochemistry in Groundwater of a Pristine Delt."

Peric, Dunja, and Riding, Kyle, US Department of Transportation, "Effect of Y-Cracking on CRCP Performance (PS-14)."

Peterman, Robert J., Kansas Department of Transportation, $75,000, "Developing Short-Span Alternatives to Reinforced Concrete Box Culvert Structures in Kansas (Phase 1)."

Peterman, Robert J., and Esmaeily, Asadollah, Kansas Department of Transportation, $12,800, "Evaluation and Long-Term Monitoring of the Time-Dependent Characteristics of Self-Consolidating Concrete in an Instrumented Kansas Prestressed Concrete Bridge."

Peterman, Robert J., Murray, Leigh W. (Statistics), and Riding, Kyle, Precast/Prestressed Concrete Institute, "Determination of Acceptance Criteria for Prestressing Strand in Pretensioned Applications."

Peterman, Robert J., Beck, B. Terry (Mechanical and Nuclear Engineering), and Wu, Chih-Hang (Industrial and Manufacturing Systems Engineering), US Department of Transportation, $71,896, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."


Riding, Kyle, Kansas Department of Transportation, $49,000, "Sustainable and Durable Concrete Pavement Aggregates."

Riding, Kyle, Murray, Leigh W. (Statistics), and Peterman, Robert J., Precast/Prestressed Concrete Institute, $265,977, "Determination of Acceptance Criteria for Prestressing Strand in Pretensioned Applications."

Riding, Kyle, and Peric, Dunja, US Department of Transportation, $14,998, "Effect of Y-Cracking on CRCP Performance (PS-14)."

Riding, Kyle, US Department of Transportation, $21,200, "Implementation of Alternatives to Asphalt Concrete Subbases for Concrete Pavement."

Russell, Eugene R., and Landman, E. Dean, Kansas Department of Transportation, $59,000, "Phase II: Optimizing the Analysis of Routing Superloads/OSOWs to Sustain Efficient Corridors."

Scoglio, Caterina M., Garrett, Karen A., and Hutchinson, J. M. Shawn (Geography), US Department of Agriculture, $8,000, "Landscape Connectivity Pest Spread Model - Development and Support."
Steward, David R., Andresen, Daniel A. (Computing and Information Sciences), Caragea, Doina (Computing and Information Sciences), Dodds, Walter K. (Biology), and Esry, Brett D. (Physics), National Science Foundation, $70,000, "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering."

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

COMPUTING AND INFORMATION SCIENCES

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

Andresen, Daniel A., Caragea, Doina, Dodds, Walter K. (Biology), Esry, Brett D. (Physics), and Steward, David R. (Civil Engineering), National Science Foundation, $420,000, "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering."


Banerjee, Anindya, Amtoft, Torben, Hatcliff, John M., Ou, Xinming (Simon), and Robby, -, US Department of Defense, "Evidence-based Trust in Large- Scale MLS Systems."
Bean, Nathan, Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, "CI-TEAM Demonstration Project: TRENDS: Training the Next Generation Workforce in Real-time Data and Simulation Technologies."

Caragea, Doina, Andresen, Daniel A., Dodds, Walter K. (Biology), Esry, Brett D. (Physics), and Steward, David R. (Civil Engineering), National Science Foundation, "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering."

Caragea, Doina, Das, Sanjoy (Electrical and Computer Engineering), Kluitenberg, Gerard J. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $24,905, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."


DeLoach, Scott A., Das, Sanjoy (Electrical and Computer Engineering), Natarajan, Balasubramaniam (Electrical and Computer Engineering), Ou, Xinming (Simon), and Pahwa, Anil (Electrical and Computer Engineering), National Science Foundation, "Components, Run-Time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems."

DeLoach, Scott A., US Department of Defense, $24,000, "Human-Robot Teams Informed By Human Performance Moderator Functions."

DeLoach, Scott A., and Ou, Xinming (Simon), US Department of Defense, $203,842, "Understanding and Quantifying the Impact of Moving Target Defenses on Computer Networks."

Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $5,850, "Expeditionary Capabilities Consortium."

Hatcliff, John M., Amtoft, Torben, Banerjee, Anindya, Ou, Xinming (Simon), and Robby, -, US Department of Defense, $600,001, "Evidence-based Trust in Large-Scale MLS Systems."
Hatcliff, John M., Andresen, Daniel A., Chalin, Patrice, Robby, and Vasserman, Eugene, and Warren, Steven (Electrical and Computer Engineering), US Department of Health and Human Services, $80,000, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

Hsu, William H., iQ Gateway LLC, $20,000, "Computational Information and Knowledge Management: Data Mining, Analytics, and Information Extraction and Integration Tasks."

Neilsen, Mitchell L., Bean, Nathan, Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, "CI-TEAM Demonstration Project: TRENDS: Training the Next Generation Workforce in Real-time Data and Simulation Technologies."

Neilsen, Mitchell L., Singh, Gurdip, Spears, Jacqueline D. (Dean of Education), Wallentine, Virgil E., and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, $342,621, "Infusing System Design and Sensor Technology in Education."

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

Ou, Xinming (Simon), Hewlett-Packard Company, $147,716, "A New Approach to Rigorous Risk Analytics using Attack Graphs."

Ou, Xinming (Simon), National Institute of Standards and Technology, $30,000, "Techniques for Security Risk Analysis and Mitigation for Enterprise Networks."

Ou, Xinming (Simon), Singh, Gurdip, and Vasserman, Eugene, National Science Foundation, $299,652, "An Innovative Cybersecurity Curriculum for Civilian and Military Workforce."

Ou, Xinming (Simon), National Science Foundation, $36,364, "CAREER: Reasoning about Uncertainty in Cybersecurity."

Ou, Xinming (Simon), Das, Sanjoy (Electrical and Computer Engineering), DeLoach, Scott A., Natarajan, Balasubramaniam (Electrical and Computer Engineering), and Pahwa, Anil (Electrical and Computer Engineering), National Science Foundation, $440,000, "Components, Run-Time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems."

Ou, Xinming (Simon), Amtoft, Torben, Banerjee, Anindya, Hatcliff, John M., and Robby, -, US Department of Defense, "Evidence-based Trust in Large-Scale MLS Systems."
Ou, Xinming (Simon), and DeLoach, Scott A., US Department of Defense, "Understanding and Quantifying the Impact of Moving Target Defenses on Computer Networks."

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, Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), and Kramer, Bradley A. (Advanced Manufacturing Institute), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Singh, Gurdip, Ou, Xinming (Simon), and Vasserman, Eugene, National Science Foundation, "An Innovative Cybersecurity Curriculum for Civilian and Military Workforce."

Singh, Gurdip, Bean, Nathan, Neilsen, Mitchell L., Spears, Jacqueline D. (Dean of Education), and Zhang, Naiqian (Biological and Agricultural Engineering), National Science Foundation, $187,499, "CI-TEAM Demonstration Project: TRENDS: Training the Next Generation Workforce in Real-time Data and Simulation Technologies."

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

Vasserman, Eugene, Ou, Xinming (Simon), and Singh, Gurdip, National Science Foundation, "An Innovative Cybersecurity Curriculum for Civilian and Military Workforce."

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

DEAN OF ENGINEERING

Bitsie-Baldwin, LaVerne, and Larson, Nancy J. (Kansas Industrial Extension Services), US Environmental Protection Agency, "Kansas Pollution Prevention Grants - 2011 (P2)."

Clark, Gary A., Bhandari, Alok (Civil Engineering), Edgar, James H. (Chemical Engineering), English, John R., Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

English, John R., Bhandari, Alok (Civil Engineering), Clark, Gary A., Edgar, James H. (Chemical Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, $3,833,333, "University Engineering Initiative Act (UEIA)."

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

Larson, Nancy J., Multi-Sponsor, $9,758, "KINEX Multi-Sponsor."

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

ELECTRICAL AND COMPUTER ENGINEERING

Das, Sanjoy, DeLoach, Scott A. (Computing and Information Sciences), Natarajan, Balasubramaniam, Ou, Xinming (Simon) (Computing and Information Sciences), and Pahwa, Anil, National Science Foundation, "Components, Run-Time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems."
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), Kluitenber, Gerard J. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $135,199, "TRMS: Agroecological Annotation of Gene Function and Computational Analysis of Gene Networks."

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

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

Day, Dwight D., Sandia National Laboratories, $10,000, "Advanced Memory Subsystem Research."


Erickson, Larry E., Dunn, William L. (Mechanical and Nuclear Engineering), Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $10,800, "Expeditionary Capabilities Consortium."

Gruenbacher, Don M., Barstow, Thomas J. (Kinesiology), Day, Dwight D., Kuhn, William B., Natarajan, Balasubramaniam, Sobering, Timothy J. (Vice President Electronics Design Laboratory), and Warren, Steven, Kansas Board of Regents, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."
Gruenbacher, Don M., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Advanced Manufacturing Institute), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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

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

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

Kuhn, William B., Honeywell Federal Manufacturing & Technologies, LLC, $20,154, "Electrical Testing and Characterization of Thin Film Capacitors on Low Temperature Co-Fired Ceramic (LTCC)."

Kuhn, William B., Barstow, Thomas J. (Kinesiology), Day, Dwight D., Gruenbacher, Don M., Natarajan, Balasubramaniam, Sobering, Timothy J. (Vice President Electronics Design Laboratory), and Warren, Steven, Kansas Board of Regents, $40,875, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Kuhn, William B., Barstow, Thomas J. (Kinesiology), Day, Dwight D., Gruenbacher, Don M., Natarajan, Balasubramaniam, Sobering, Timothy J. (Vice President Electronics Design Laboratory), and Warren, Steven, National Aeronautics and Space Administration, $178,255, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Kuhn, William B., Sandia National Laboratories, $75,243, "Phase V Research and Development at Kansas State University."
Kuhn, William B., and Rys, Andrew, US Department of Defense, $5,000, "Extreme Environmental Electronics in Silicon-on-Sapphire."

Kuhn, William B., US Department of Energy, $70,192, "High Frequency Characterization of Thin Film Metals on Low Temperature Co-Fired Ceramic (LTCC)."


Miller, Ruth D., and Natarajan, Balasubramaniam, Kansas Department of Transportation, $61,300, "Evaluation of Renewable Energy Generation Potential for KDOT Sites."

Miller, Ruth D., Westar Energy, $36,483, "Solicitation and Administration of Wind for Schools Turbine Projects."

Mirafzal, Behrooz, National Science Foundation, $111,468, "Integrated Micro-Boost Inverter for Photovoltaic Energy Conversion Applications."

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

Natarajan, Balasubramaniam, and Miller, Ruth D., Kansas Department of Transportation, "Evaluation of Renewable Energy Generation Potential for KDOT Sites."

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

Natarajan, Balasubramaniam, Das, Sanjoy, DeLoach, Scott A. (Computing and Information Sciences), Ou, Xinming (Simon) (Computing and Information Sciences), and Pahwa, Anil, National Science Foundation, "Components, Run-Time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems."

Natarajan, Balasubramaniam, and Warren, Steven, National Science Foundation, "KSU Student Chapter of the IEEE EMBS as a Focal Point for Senior Design Projects to Aid Children with Disabilities."
Pahwa, Anil, Das, Sanjoy, DeLoach, Scott A. (Computing and Information Sciences), Natarajan, Balasubramaniam, and Ou, Xinming (Simon) (Computing and Information Sciences), National Science Foundation, $660,000, "Components, Run-Time Substrates, and Systems: Medium: Holonic Multi-Agent Control of Intelligent Power Distribution Systems."

Pahwa, Anil, and Das, Sanjoy, National Science Foundation, $100,395, "Influence of Lightning, Wind, Trees, and Squirrels on Reliability of Power Distribution Systems."


Schulz, Noel N., Edgar, James H. (Chemical Engineering), and Jones, Byron W. (Engineering Experiment Station), Kansas Board of Regents, $25,000, "Kansas Defense 2010 (FY09)."

Schulz, Noel N., and Gruenbacher, Don M., Kansas State University Foundation, $103,295, "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., US Department of Agriculture, $25,000, "Network Based Modeling of Arthropods, Humans, and Animals to Better Understand Vector-Borne Disease Transmission."

Scoglio, Caterina M., Garrett, Karen A. (Plant Pathology), Hutchinson, J. M. Shawn (Geography), and With, Kimberly A. (Biology), US Department of Agriculture, $13,615, "Optimizing Strategies for Rapid Response."

Soldan, David L., Gruenbacher, Don M., and Schulz, Noel N., National Science Foundation, $20,800, "From Defense to Degree: Accelerating Engineering Degree Opportunities for Military Veterans."

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

Warren, Steven, Barstow, Thomas J. (Kinesiology), and Schinstock, Dale E. (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, $90,000, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."

Warren, Steven, and Natarajan, Balasubramaniam, National Science Foundation, $124,999, "KSU Student Chapter of the IEEE EMBS as a Focal Point for Senior Design Projects to Aid Children with Disabilities."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), Chalin, Patrice (Computing and Information Sciences), Hatcliff, John M. (Computing and Information Sciences), Robby, - (Computing and Information Sciences), and Vasserman, Eugene (Computing and Information Sciences), US Department of Health and Human Services, $20,000, "Development of a Prototype Healthcare Intranet for Improved Health Outcomes."

ENGINEERING EXPERIMENT STATION

Jones, Byron W., Edgar, James H. (Chemical Engineering), and Schulz, Noel N. (Electrical and Computer Engineering), Kansas Board of Regents, $40,000, "Kansas Defense 2010 (FY09)."

Jones, Byron W., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdeep (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Jones, Byron W., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), US Department of Transportation, $34,166, "Phase II: Application of Hazard Analysis & Critical Control Points (HACCP) Evaluation of Disease Transmission in Aircraft."

Jones, Byron W., and Eckels, Steven J. (Institute for Environmental Research), US Department of Transportation, $99,111, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."
Ben-Arieh, David H., and Wu, Chih-Hang, Hays Medical Center, $18,803, "Improving Medical and Surgical Inpatient Operations."

Ben-Arieh, David H., Chang, Shing I., and Douglas-Mankin, Kimberly D., US Department of Veterans Affairs, $62,282, "Measuring Impact of Field Based Analytics Education."

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

Ben-Arieh, David H., Chang, Shing I., and Douglas-Mankin, Kimberly D., US Department of Veterans Affairs, $61,698, "Readiness for Reliability in Sterile Processing Department (SPD)."

Chang, Shing I., Ben-Arieh, David H., and Douglas-Mankin, Kimberly D., US Department of Veterans Affairs, "Measuring Impact of Field Based Analytics Education."

Chang, Shing I., Ben-Arieh, David H., and Douglas-Mankin, Kimberly D., US Department of Veterans Affairs, "Readiness for Reliability in Sterile Processing Department (SPD)."


Douglas-Mankin, Kimberly D., Ben-Arieh, David H., and Chang, Shing I., US Department of Veterans Affairs, "Readiness for Reliability in Sterile Processing Department (SPD)."

Easton, Todd W., Spirit AeroSystems, Inc., $30,000, "Optimizing Crane Usage at Spirit AeroSystems."

Easton, Todd W., US Department of Defense, $60,003, "Part-Time M. S. Program in Industrial Engineering - Spring 2012."

Easton, Todd W., US Department of Defense, $50,309, "Part-Time M.S. Program in Industrial Engineering - Fall 2011."

Easton, Todd W., US Department of Defense, $64,615, "Part-Time M.S. Program in Industrial Engineering - Summer 2012."

Kramer, Bradley A., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fenton, Donald L. (Mechanical and Nuclear Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M.
(Electrical and Computer Engineering), **Harner III, Joseph P.** (Biological and Agricultural Engineering), **Jones, Byron W.** (Engineering Experiment Station), and **Singh, Gurdev** (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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

**Kramer, Bradley A.,** and **Wang, Donghai** (Biological and Agricultural Engineering), National Science Foundation, $11,000, "Ultrasonic Vibration-assisted Pelleting of Cellulosic Biomass for Biofuel Manufacturing."

**Kramer, Bradley A.,** National Science Foundation, $20,970, "Workshop/Collaborative Research: 2012 NSF CAREER Proposal Writing Workshop."

**Lei, Shuting,** National Science Foundation, $288,442, "Defect Free and Robust Microstructuring Using Femtosecond Axicon-lens-focused Beam (FAB) with Application Focus in Thin Film Solar Cell Manufacturing."

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

**Rys, Malgorzata J.,** and **Ben-Arieh, David H.,** US Department of Veterans Affairs, $63,882, "Operating Room IT Evaluation."

**Wu, Chih-Hang,** and **Ben-Arieh, David H.,** Hays Medical Center, "Improving Medical and Surgical Inpatient Operations."

**Wu, Chih-Hang, Beck, B. Terry** (Mechanical and Nuclear Engineering), and **Peterman, Robert J.** (Civil Engineering), US Department of Transportation, $43,936, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

**INSTITUTE FOR ENVIRONMENTAL RESEARCH**

**Eckels, Steven J., Beck, B. Terry** (Mechanical and Nuclear Engineering), **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), and **Sorensen, Christopher M.** (Physics), Caitin, Inc, $234,014, "Equipment Received in Support of the Development of a Water Based, Critical Flow, non-Vapor Compression Cooling Cycle Project."

**Eckels, Steven J.,** and **McCullough, Elizabeth A.,** US Department of Defense, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."
Eckels, Steven J., Dunn, William L. (Mechanical and Nuclear Engineering), Erickson, Larry E. (Center for Hazardous Substance Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $6,750, "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, $91,846, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

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

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

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

Jones, Byron W., and Eckels, Steven J., US Department of Transportation, $99,111, "Phase III: Sensors and Prognostics to Mitigate Bleed Air Contamination Events."

Jones, Byron W., Eckels, Steven J., and Hosni, Mohammad H., US Department of Transportation, $58,216, "Sensors and Prognostics to Mitigate Bleed Air Contamination Events."


KANSAS INDUSTRIAL EXTENSION SERVICES

Hamel, Ryan J., and Larson, Nancy J., US Department of Agriculture, $63,500, "Greening Southeast Kansas Initiative."

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

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

Johnson, Barbara L., US Environmental Protection Agency, $43,100, "Environmental Sustainability for the Salina, Kansas Community Level II."

Larson, Nancy J., Kansas Health Foundation, $25,000, "Food Recovery Challenge Feeds Sedgwick County Hungry."

Larson, Nancy J., Multi-Sponsor, $19,811, "KINEX Multi-Sponsor."

Larson, Nancy J., and Hamel, Ryan J., US Department of Agriculture, "Greening Southeast Kansas Initiative."

Larson, Nancy J., US Environmental Protection Agency, $25,000 (includes $10,000 from KDHE BOW), "Green Infrastructure Education & Information Program Development."

Larson, Nancy J., and Bitsie-Baldwin, LaVerne (Dean of Engineering), US Environmental Protection Agency, $89,546 (includes $29,549 from in kind support), "Kansas Pollution Prevention Grants - 2011 (P2)."

Larson, Nancy J., and Hamel, Ryan J., US Environmental Protection Agency, $38,353 (includes $5,000 from industry match), "Source Reduction Healthcare and Lodging Facilities."

Snead, Bruce C., US Department of Energy, $3,000, "KSU/KCC Energy Audit Equipment Collaboration."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, $150,115, "National Radon Program Services."

Snead, Bruce C., and Hanson, Brian R., US Environmental Protection Agency, $195,726 (includes $66,500 from In kind support), "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, $3,550, "Regional Radon Training Center."

Snead, Bruce C., US Environmental Protection Agency, $15,424 (includes $7,424 from Participant In-kind), "Training for the Nebraska State Radon Program 2011-12."
Beck, B. Terry, Eckels, Steven J. (Institute for Environmental Research), Hosni, Mohammad H., and Sorensen, Christopher M. (Physics), Caitin, Inc, "Equipment Received in Support of the Development of a Water Based, Critical Flow, non-Vapor Compression Cooling Cycle Project."


Beck, B. Terry, Peterman, Robert J. (Civil Engineering), and Wu, ChihHang (Industrial and Manufacturing Systems Engineering), US Department of Transportation, $43,936, "Quantifying the Effect of Prestressing Steel and Concrete Variables on the Transfer Length in Pretensioned Concrete Crossties."

Cai, Liang-Wu, National Aeronautics and Space Administration, $38,321, "Acoustically Tailored Composite Rotocraft Fuselage Panels."


Cai, Liang-Wu, US Department of Defense, $125,000, "Two and Three-Dimensional Broadband Acoustic Metamaterials via Homogenization and Multiple Scattering from Arrays of Natural Minerals."

Dunn, William L., Eckels, Steven J. (Institute for Environmental Research), Erickson, Larry E. (Center for Hazardous Substance Research), Guikema, James A. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $4,950, "Expeditionary Capabilities Consortium."

Dunn, William L., and Hosni, Mohammad H., US Nuclear Regulatory Commission, $39,123, "Collaborative Distance Education Course on Radiation and Dosimetry in Nuclear Health Physics."

Dunn, William L., and Hosni, Mohammad H., US Nuclear Regulatory Commission, $184,791, "Development of a Distance Education Course Sequence on Probabilistic Risk Assessment and Fire Protection."

Fenton, Donald L., Ammonia Refrigeration Foundation, $44,970, "Comparison of Various Methods of Mitigating Over Pressure Induced Release Events involving Ammonia Refrigeration using Quantitative Risk Analysis (QRA)."
Fenton, Donald L., Bhandari, Alok (Civil Engineering), Clark, Gary A. (Dean of Engineering), Edgar, James H. (Chemical Engineering), English, John R. (Dean of Engineering), Fritchen, David R. (Architectural Engineering and Construction Science), Gruenbacher, Don M. (Electrical and Computer Engineering), Harner III, Joseph P. (Biological and Agricultural Engineering), Jones, Byron W. (Engineering Experiment Station), Kramer, Bradley A. (Industrial and Manufacturing Systems Engineering), and Singh, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

Geuther, Jeffrey A., and Edgar, James H. (Chemical Engineering), National Science Foundation, $600, "ARI-MA: Collaborative Research: Hexagonal Boron Nitride Based Neutron Detectors."


Hosni, Mohammad H., Beck, B. Terry, Eckels, Steven J. (Institute for Environmental Research), and Sorensen, Christopher M. (Physics), Caitin, Inc,$434,598, "Equipment Received in Support of the Development of a Water Based, Critical Flow, non-Vapor Compression Cooling Cycle Project."

Hosni, Mohammad H., and Reinert, Dana M., US Department of Defense, $10,000, "2012 University Engineering Alliance."

Hosni, Mohammad H., Beck, B. Terry, Eckels, Steven J. (Institute for Environmental Research), and Sorensen, Christopher M. (Physics), US Department of Energy, $153,077, "Development of a Water Based, Critical Flow, Non-Vapor Compression Cooling Cycle."

Hosni, Mohammad H., US Department of Energy, $155,000, "Nuclear Energy University Programs Fellowship and Scholarship Support."

Hosni, Mohammad H., and Jones, Byron W. (Engineering Experiment Station), US Department of Transportation, $34,166, "Phase II: Application of Hazard Analysis & Critical Control Points (HACCP) Evaluation of Disease Transmission in Aircraft."

Hosni, Mohammad H., and Dunn, William L., US Nuclear Regulatory Commission, "Collaborative Distance Education Course on Radiation and Dosimetry in Nuclear Health Physics."

Hosni, Mohammad H., and Dunn, William L., US Nuclear Regulatory Commission, "Development of a Distance Education Course Sequence on Probabilistic Risk Assessment and Fire Protection."

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

Lease, Kevin B., National Aeronautics and Space Administration, $2,000, "FDotF Reconfigurable Habitat."

McGregor, Douglas S., Schlumberger Technology Corporation, $50,000, "SIC Materials for Neutron Detectors."


Schinstock, Dale E., Barstow, Thomas J. (Kinesiology), and Warren, Steven (Electrical and Computer Engineering), National Aeronautics and Space Administration, $60,000, "Standardized "Pre-flight" Exercise Tests to Predict Performance during Extravehicular Activities in a Lunar Environment."


Wang, Youqi, US Department of Defense, $100,000, "Ballistic Strength and Optimal Design of Single and Multi-Layer 3-D Fabrics."


NATIONAL GAS MACHINERY LABORATORY

Jones, Byron W., Eckels, Steven J. (Institute for Environmental Research), and Hosni, Mohammad H. (Institute for Environmental Research), US Department of Transportation, $58,216, "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. (Office of the Vice President for Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $900, "Expeditionary Capabilities Consortium."


DEAN OF HUMAN ECOLOGY


Moxley, Virginia M., AG*IDEA, $68,298, "AG*IDEA Lead Institution."

Moxley, Virginia M., Great Plains IDEA Alliance, $260,933, "Great Plains IDEA Lead Institution."


HOSPITALITY MANAGEMENT AND DIETETICS

Kwon, Junehee, and Sauer, Kevin L., American Dietetic Association Foundation, "Current Practices and School Foodservice Directors' Knowledge and Attitudes about Food Allergy Training."

Kwon, Junehee, and Sauer, Kevin L., US Department of Agriculture, $140,168, "Advancing Food Allergy Education for Hospitality Management and/or Dietetics Students Using Storytelling."

Sauer, Kevin L., and Kwon, Junehee, American Dietetic Association Foundation, $5,000, "Current Practices and School Foodservice Directors' Knowledge and Attitudes about Food Allergy Training."

Sauer, Kevin L., and Kwon, Junehee, US Department of Agriculture, "Advancing Food Allergy Education for Hospitality Management and/or Dietetics Students Using Storytelling."
HUMAN NUTRITION

Adhikari, Koushik, National Cattlemen's Beef Association, $7,898, "Collaborator 2 - Sensory Flavor Analysis of Beef Steaks."

Adhikari, Koushik, Kidd, Tandalayo, and Muturi, Nancy W. (School of Journalism and Mass Communications), US Department of Agriculture, "Community-Based Participatory Research (CBPR) Model in Preventing Overweight and Obesity among 6th-8th grade youth in low-income racial/ethnic communities."

Chambers IV, Edgar, and Park, Sunghun (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, $6,545, "Development of Calcium-Enhanced Lettuce."

Kidd, Tandalayo, Adhikari, Koushik, and Muturi, Nancy W. (School of Journalism and Mass Communications), US Department of Agriculture, $463,133, "Community-Based Participatory Research (CBPR) Model in Preventing Overweight and Obesity among 6th-8th grade youth in low-income racial/ethnic communities."

Lin, Dingbo, Kansas State University Foundation, $1,000, "Fall 2011 Cancer Research Award Mentor."

Lindshield, Brian L., Kansas State University Foundation, $1,000, "5alpha-reductase Inhibitors for Reduction of Prostate Tumor Growth."

Medeiros, Denis M., US Department of Health and Human Services, $27,334, "Nucleotide-Mediated Foam Cell Formation in Smooth Muscle Cells (Fellowship - Tixieanna Dissmore)."

Melgarejo, L Tonatiuh, Center for Animal Health Innovation, $258,516, "Water Buffalo Host Defense Peptides as a Novel Class of Natural Antibiotics for the Treatment of Mastitis in Dairy Cattle."


Mendoza, Bertha, Kansas Department of Social & Rehabilitation Services, $343,000, "Incredible Years Facilitation."

Procter, Sandra B., Johannes, Elaine M. (School of Family Studies and Human Services), and Peters, Paula (Director of Cooperative Extension), US Department of Agriculture, $781,899, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

Wang, Weiqun, Kansas State University Foundation, $2,000, "Fall 2011 Cancer Research Award Mentor."


**SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES**

DeLuccie, Mary L., US Department of Agriculture, $8,539, "Federal Aid in Support of the Child and Adult Care Food Program."

Fees, Bronwyn S., and Johannes, Elaine M., US Department of Agriculture, "Kansas Child Care and Youth Training and Technical Assistance Project - State (Extension) Coordinators."

Glasscock, Marlene K., US Department of Agriculture, $1,545,454, "4-H Air Force Military Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, $7,927,916, "4-H Military Partnerships: 4-H Army Youth Development Project."

Glasscock, Marlene K., US Department of Agriculture, $850,909, "4-H/Navy Youth Development Project."

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


Glasscock, Marlene K., US Department of Defense, $259,277, "Mobile Technology Lab Computers - Army."


Johannes, Elaine M., and Fees, Bronwyn S., US Department of Agriculture, $45,000, "Kansas Child Care and Youth Training and Technical Assistance Project - State (Extension) Coordinators."

Johannes, Elaine M., Peters, Paula (Director of Cooperative Extension), and Procter, Sandra B. (Human Nutrition), US Department of Agriculture, $195,475, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

Markham, Melinda S., Family Process Institute, $5,418, "The Process of Communicating with Former Partners for Divorced or Separated Parents who Share Physical Custody."

O'Conner, Nancy T., US Department of Health and Human Services, $172,767, "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."


Sellers, Debra, US Department of Health and Human Services, $38,824, "Kansas Optimizing Health Program (KOHP) Integration to KSRE System."


COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Blecha, Frank, Richardson, Ralph C. (Dean of Veterinary Medical Center), and Shi, Jishu N., Pfizer, Inc., "International Veterinary Collaboration for China DVM Program."

Fong, Peying, US Department of Health and Human Services, $52,000, "CFTR Regulation of Thyroid Transport (Bridging Grant)."

Kenney, Michael J., US Department of Health and Human Services, $1, "BRITE Veterinary Student Program."

Kenney, Michael J., and Davis, Elizabeth G. (Clinical Sciences), US Department of Health and Human Services, $22,067, "Short-Term Training Students in Health Professional Schools."

Kukanich, Stanley P., and KuKanich, Katherine (Clinical Sciences), American College of Veterinary Internal Medicine Foundation, $17,959, "The Effect of CYP Inhibition on Tramadol Disposition and Effects in Dogs."
Marcus, Daniel C., and Wangemann, A. Philine, Kansas City Area Life Sciences Institute, "Genetic Diseases of Inner Ear Development - Mouse Models for Deafness in Children."


Marcus, Daniel C., US Department of Health and Human Services, $2,110,247, "Epithelial Function in Health and Disease."


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

Poole, David C., American Heart Association, Midwest Affiliate, $2,000, "Chronic Pentoxify Line Administration in the Treatment of CHF - Undergraduate Research Project (Gabrielle Sims)."

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

Schultz, Bruce D., Chen, Jianhan (Biochemistry), and Tomich, John M. (Biochemistry), US Department of Health and Human Services, $29,886, "Model Synthetic Channel Assemblies."

Schultz, Bruce D., and Lillich, James D. (Clinical Sciences), US Department of Health and Human Services, $278,059, "Neuroendocrine-modulated Epithelial HCO3-transport."

Shi, Jishu N., and Sun, X. Susan (Grain Science and Industry), Kansas State University Research Foundation, $15,000, "Testing the Efficacy of Hydrogel h9e as Adjuvant for Swine Vaccines."

Shi, Jishu N., Blecha, Frank, and Richardson, Ralph C. (Dean of Veterinary Medical Center), Pfizer, Inc., "International Veterinary Collaboration for China DVM Program."

Shi, Jishu N., US Department of Agriculture, $50,000, "Rift Valley Fever - Experimental Vaccine Formulations - Adjuvants for Stabile Modified-Live Vaccines and Subunit Vaccines."
Wangemann, A. Philine, and Marcus, Daniel C., Kansas City Area Life Sciences Institute, $50,000, "Genetic Diseases of Inner Ear Development - Mouse Models for Deafness in Children."


Wangemann, A. Philine, and Marcus, Daniel C., US Department of Health and Human Services, $52,000, "Organogenesis of the Cochlear in mouse Models of SLC26A4-related Deafness."

Weiss, Mark L., Biological Industries Ltd, $37,000, "Biological Industries - Project 1."

Weiss, Mark L., Kansas State University Foundation, $1,000, "2011 Northeast Kansas Parkinson Association Research Fund."

Weiss, Mark L., Transposagen Biopharmaceuticals, $10,564, "Transposagen Biopharmaceutical Project 1."

Weiss, Mark L., Transposagen Biopharmaceuticals, $10,884, "Transposagen Project III."

Weiss, Mark L., Transposagen Biopharmaceuticals, $10,662, "Transposagen Project II."


CLINICAL SCIENCES


Anderson, David E., Mosier, Derek A. (Diagnostic Medicine/Pathobiology), and White, Bradley J., Intervet, Inc., $113,993, "Determination of the Potential Mitigation of Inflammatory Factors in Bovine Respiratory Disease through use of Florfenicol and Flunixin Meglumine."


Anderson, David E., Coetzee, Johann F., and Hanzlicek, Gregg A. (Veterinary Diagnostic Laboratory), US Department of Agriculture, $42,000, "Develop and Implement a National Center for Excellence in Dairy Production Medicine Education for Veterinarians."

Coetzee, Johann F., Anderson, David E., and Hanzlicek, Gregg A. (Veterinary Diagnostic Laboratory), US Department of Agriculture, "Develop and Implement a National Center for Excellence in Dairy Production Medicine Education for Veterinarians."

Davis, Elizabeth G., and Kenney, Michael J., Merial Limited, $10,000, "2012 Merial Veterinary Scholars Program."

Davis, Elizabeth G., and Kenney, Michael J. (Anatomy and Physiology), US Department of Health and Human Services, $22,067, "Short-Term Training Students in Health Professional Schools."

Higginbotham, Mary Lynn, and McCaw, Dudley, BioMed Valley Discoveries, Inc., "An Open-Label, Non-Randomized, Single Dose Exploratory Study to Evaluate the Safety and Effectiveness of Clostridium novhi-NT Spores in Spontaneous Canine Tumors Receiving Radiation Therapy."


KuKanich, Katherine, and Kukanich, Stanley P. (Anatomy and Physiology), American College of Veterinary Internal Medicine Foundation, "The Effect of CYP Inhibition on Tramadol Disposition and Effects in Dogs."


Lillich, James D., and Schultz, Bruce D. (Anatomy and Physiology), US Department of Health and Human Services, $14,635, "Neuroendocrine-modulated Epithelial HCO3-transport."
McCaw, Dudley, and Higginbotham, Mary Lynn, BioMed Valley Discoveries, Inc., $432,169, "An Open-Label, Non-Randomized, Single Dose Exploratory Study to Evaluate the Safety and Effectiveness of Clostridium novhi-NT Spores in Spontaneous Canine Tumors Receiving Radiation Therapy."


Rush, Bonnie R., Ross University, $219,678, "Clinical Training for Ross University."

Schermerhorn, Thomas, and Davis, Elizabeth G., Morris Animal Foundation, $4,000, "Measurement of Serum Toxicity in Critically Ill Dogs (Misty Yancey)."

Thomson, Daniel U., Kansas Beef Council, $60,000, "Improving Consumer Confidence in Beef Products Through Strategic Beef Quality Assurance (BQA) and Animal Husbandry Training of Kansas Beef Producers."


Thomson, Daniel U., Reinhardt, Christopher D. (Animal Sciences and Industry), Schroeder, Ted C. (Agricultural Economics), Schulz, Lee (Agricultural Economics), and Tonsor, Glynn (Agricultural Economics), US Department of Agriculture, "Value of Pre-Harvest Food Safety and Animal Welfare Certification for Cattle Producers."

Thomson, Daniel U., Apley, Michael D., and Reinhardt, Christopher D., Zinpro Corporation, $24,570, "Defining Feedlot Lameness: Rates and Economic Implications (Shane Terrell)."

White, Bradley J., Anderson, David E., and Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Intervet, Inc., "Determination of the Potential Mitigation of Inflammatory Factors in Bovine Respiratory Disease through use of Florfenicol and Flunixin Meglumine."


DEAN OF VETERINARY MEDICAL CENTER

Richardson, Ralph C., Kansas State University Foundation, $173,267, "Professorships/Chairs."

Richardson, Ralph C., Blecha, Frank (Anatomy and Physiology), and Shi, Jishu N. (Anatomy and Physiology), Pfizer, Inc., $113,900, "International Veterinary Collaboration for China DVM Program."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

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

Chang, Kyeong-Ok, and Hua, Duy H. (Chemistry), US Department of Health and Human Services, $611,342, "Development of Novel Therapeutic Agents for Norovirus Infection."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), Goodband, Robert D. (Animal Sciences and Industry), Nelssen, Jim L. (Animal Sciences and Industry), and Tokach, Michael D. (Animal Sciences and Industry), Ajinomoto Heartland LLC, "Crystalline Amino Acid use in Diets Containing High Levels of DDGS for Finisher Pigs."


Dryden, Michael W., and Payne, Patricia A., Intervet, Inc., $56,705, "Efficacy of Activyl Applied to Cats against the Adult Cat Flea, Ctenocephalides felis, Flea Eggs and Adult Flea Emergence."

Dryden, Michael W., and Payne, Patricia A., Pfizer, Inc., $140,049, "Service Protocols Agreement-Comparative Efficacy of Revolution ® (selamectin), Trifexis ™ (spinosad/milbemycin oxime) and Comfortis® (spinosad) against the KS1 Strain of Ctenocephalides Felis in 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."


Hesse, Richard, and Rowland, Jean L., Imugene Ltd, $9,324, "Memorandum of Agreement."

Hesse, Richard, Novartis Corporation, $106,636, "PRRS Virus Vaccine DiscoveryChallenge Study."


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, $117,175, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

Ma, Wenjun, National Pork Board, $66,150, "Evaluation of Novel Reassortant Swine Influenza Viruses."


Mosier, Derek A., Anderson, David E. (Clinical Sciences), and White, Bradley J. (Clinical Sciences), Intervet, Inc., "Determination of the Potential Mitigation of Inflammatory Factors in Bovine Respiratory Disease through use of Florfenicol and Flunixin Meglumine."

Nagaraja, Tiruvoor G., Renter, David G., and Scott, Harvey M., Bayer Corporation, "Epidemiology and Fluoroquinolone-susceptibility Patterns of Salmonella and Campylobacter in Feedlot Cattle."

Nagaraja, Tiruvoor G., and Renter, David G., National Cattlemen's Beef Association, "Do Pre-harvest Interventions Intended for E. coli O157:H7 Affect Fecal Shedding of the "top six" non-O157 E. coli or Salmonella in Feedlot Cattle."

Nagaraja, Tiruvoor G., and Rowland, Raymond R. R., US Department of Health and Human Services, $10,949, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training (Career Development)."


Payne, Patricia A., and Dryden, Michael W., Intervet, Inc., "Efficacy of Activyl Applied to Cats against the Adult Cat Flea, Ctenocephalides felis, Flea Eggs and Adult Flea Emergence."

Payne, Patricia A., and Dryden, Michael W., Pfizer, Inc., "Service Protocols Agreement-Comparative Efficacy of Revolution® (selamectin), Trifexis™ (spinosad/milbemycin oxime) and Comfortis® (spinosad) against the KS1 Strain of Ctenocephalides Felis in Dogs."

Renter, David G., Nagaraja, Tiruvooor G., and Scott, Harvey M., Bayer Corporation, $357,074, "Epidemiology and Fluoroquinolone-susceptibility Patterns of Salmonella and Campylobacter in Feedlot Cattle."

Renter, David G., and Nagaraja, Tiruvooor G., National Cattlemen's Beef Association, $58,150, "Do Pre-harvest Interventions Intened for E. coli O157:H7 Affect Fecal Shedding of the "top six" non-O157 E. coli or Salmonella in Feedlot Cattle."

Richt, Juergen, Kansas Bioscience Authority, $34,155, "Evaluation of Rift Valley Fever Diagnostic Tests for Use in a Diva Control Strategy."

Richt, Juergen, US Department of Agriculture, $5,000, "Development of a Safe and Efficacious Vaccine for Rift Valley Fever Virus."

Richt, Juergen, US Department of Agriculture, $64,300, "Rift Valley Fever - Diagnostic Tests for Diva Control Strategy."

Richt, Juergen, US Department of Health and Human Services, $1,202,398, "NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS)."


Rowland, Jean L., and Hesse, Richard, Imugene Ltd, "Memorandum of Agreement."

Rowland, Raymond R. R., Institute for Pig Genetics B.V., $106,000, "Memorandum of Agreement - TOPIGS."
Rowland, Raymond R. R., National Pork Board, $152,267, "Multi-institutional Development and Validation of a Multiplex Fluorescent Microsphere Immunoassay for the Diagnosis of Multiple Agents in Serum and Oral Fluid."

Rowland, Raymond R. R., University of Alberta, $774,313, "Application of Genomics to Improving Swine Health and Welfare."

Rowland, Raymond R. R., and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, $1,200,000, "Integrated Strategies to Control and Reduce the Impact of PRRS Virus."


Rowland, Raymond R. R., and Nagaraja, Tiruvoor G., US Department of Health and Human Services, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training (Career Development)."


Sanderson, Michael W., US Department of Agriculture, $10,998, "National Veterinary Stockpile Emergency Response and Asset Management Capacity."

Sanderson, Michael W., US Department of Homeland Security, $44,817, "Graduate Student Fellowship for Sara McReynolds."


Scott, Harvey M., Nagaraja, Tiruvoor G., and Renter, David G., Bayer Corporation, "Epidemiology and Fluoroquinolone-susceptibility Patterns of Salmonella and Campylobacter in Feedlot Cattle."
Scott, Harvey M., US Department of Agriculture, $18,757, "Novel Pre-Harvest Interventions to Protect Antimicrobials of Critical Importance in Human and Veterinary Medicine."

Scott, Harvey M., US Department of Agriculture, $5,000, "Pilot Testing Project for Animal NARMS Sampling."

**VETERINARY DIAGNOSTIC LABORATORY**

Anderson, Gary A., US Department of Agriculture, $31,000, "NAHLN: KS."


Anderson, Gary A., Hesse, Richard (Diagnostic Medicine/Pathobiology), Ma, Wenjun (Diagnostic Medicine/Pathobiology), Richt, Juergen (Diagnostic Medicine/Pathobiology), Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), and Vanier, Martha A. (National Agricultural Biosecurity Center), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."


Hanzlicek, Gregg A., Anderson, David E. (Clinical Sciences), and Coetzee, Johann F. (Clinical Sciences), US Department of Agriculture, "Develop and Implement a National Center for Excellence in Dairy Production Medicine Education for Veterinarians."

**VETERINARY MEDICAL TEACHING HOSPITAL**

Arck, Shirley T., University of Kansas, $4,400, "Training of Pharmacy D. Students."

Fingland, Roger B., City of Manhattan, KS, $16,005, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

Fingland, Roger B., Friends of the Sunset Zoo, $2,000, "Sunset Zoo Internship Program."
FACILITY PLANNING

Taussig, Mark A., Bernard, Eric A. (Landscape Architecture/Regional and Community Planning), Brokesh, Lonna D. (Landscape Architecture/Regional and Community Planning), and Kingery-Page, Katie E. (Landscape Architecture/Regional and Community Planning), Sunflower Foundation, "Marlatt Park Trails."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES

Ebert, Kerri L., and Murphy, James P., US Department of Agriculture, "2011 SARE Professional Improvement Conference for National Association of County Agricultural Agents Annual Meeting."

Hadley, Gregg L., US Department of Agriculture, $331,798, "Kansas Agricultural Mediation Service."

Hadley, Gregg L., and Ebert, Kerri L. (Biological and Agricultural Engineering), US Department of Agriculture, "Kansas SARE - Kansas 2012 State PDP Chapter 1 Program."

Hadley, Gregg L., and Ebert, Kerri L. (Biological and Agricultural Engineering), US Department of Agriculture, $32,750, "Kansas SARE- Kansas 2012 State PDP Chapter 3 Program."

Kahl, Daniel W., Peterson, Hikaru H. (Agricultural Economics), and Procter, David E. (Center for Engagement and Community Development), US Department of Agriculture, "Business Strategies for New and Existing Rural Grocery Stores: Roles of Local Foods, Institutional Sales, and Community Food Assessment."


Kahl, Daniel W., and Boone, Kristina M. (Communications), US Environmental Protection Agency, "Kansas Environmental Leadership Program (KELP) SFY12."

Murphy, James P., and Ebert, Kerri L., US Department of Agriculture, $18,910, "2011 SARE Professional Improvement Conference for National Association of County Agricultural Agents Annual Meeting."
Murphy, James P., and Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), US Department of Agriculture, "Integrated Strategies to Control and Reduce the Impact of PRRS Virus."

**AGRONOMY**


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

DIRECTOR OF COOPERATIVE EXTENSION

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., $302,292, "Kansas Agriculture and Rural Leadership, Inc."

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


Peters, Paula, Johannes, Elaine M. (School of Family Studies and Human Services), and Procter, Sandra B. (Human Nutrition), US Department of Agriculture, $2,932,121, "Mobilizing Rural Low-Income Communities to Assess and Improve the Ecological Environment to Prevent Childhood Obesity."

EXTENSION FAMILY AND CONSUMER SCIENCES


Procter, Sandra B., and Peters, Paula, US Department of Agriculture, $2,359,722 (includes $1,395 from County Cash Contributors), "Kansas Food Assistance Nutrition Education Plan."
FOUR-H YOUTH DEVELOPMENT

Gerhard, Gary W., and Hecht, Elizabeth V., US Department of Agriculture, $4,500, "4-H and Fish and Wildlife Service GIS Mapping Project."

Gerhard, Gary W., US Department of Agriculture, $2,000, "4-H and Fish and Wildlife Service GIS Mapping Project."

Gerhard, Gary W., US Department of Agriculture, $128,000, "Empowering Kansas Youth to Improve Their Physical Health."

Gerhard, Gary W., US Department of Justice, $82,000, "Kansas 4-H Tech Wizards: 4-H National Mentoring Program."

Hecht, Elizabeth V., and Gerhard, Gary W., US Department of Agriculture, "4-H and Fish and Wildlife Service GIS Mapping Project."

Stone, Barbara J., and Wiebers, Justin A., National 4-H Council, $78,657, "Contract between Kansas State University and National 4-H Council (Contractor is Justin Wiebers)."

Wiebers, Justin A., and Stone, Barbara J., National 4-H Council, "Contract between Kansas State University and National 4-H Council (Contractor is Justin Wiebers)."

KANSAS FOREST SERVICE

Atchison, Robert L., Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Biles, Larry E., Cloyd, Raymond A. (Entomology), Kennelly, Megan (Plant Pathology), O'Mara, Judith A. (Plant Pathology), and Ricci, Nicole M., US Department of Agriculture, "Professional Development Training for Sustainable Agroforestry in Kansas."


Biles, Larry E., Kansas Department of Agriculture, $27,498, "Riparian Forest Buffer Restoration II."

Biles, Larry E., Kansas Department of Agriculture, $13,347, "Riparian Forest Buffer Restoration III."

Biles, Larry E., US Department of Agriculture, $25,000, "2012 Forest Legacy Administration."
Biles, Larry E., US Department of Agriculture, $5,577, "Conservation Reserve Program 2011."

Biles, Larry E., US Department of Agriculture, $3,485,708 (includes $1,289,794 from In kind support), "Consolidated Payment Grant 2011."

Biles, Larry E., US Department of Agriculture, $2,007,143, "Consolidated Payment Grant 2012."

Biles, Larry E., US Department of Agriculture, $20,000, "Forest Legacy Administration."

Biles, Larry E., US Department of Agriculture, $500,000, "Forest Legacy New State Start-Up."

Biles, Larry E., US Department of Agriculture, $158,085, "NRCS Technical Service Provider."

Biles, Larry E., Atchison, Robert L., Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Cloyd, Raymond A. (Entomology), Kennelly, Megan (Plant Pathology), O'Mara, Judith A. (Plant Pathology), and Ricci, Nicole M., US Department of Agriculture, "Professional Development Training for Sustainable Agroforestry in Kansas."


Ricci, Nicole M., Atchison, Robert L., Barden, Charles J. (Horticulture, Forestry and Recreation Resources), Biles, Larry E., Cloyd, Raymond A. (Entomology), Kennelly, Megan (Plant Pathology), and O'Mara, Judith A. (Plant Pathology), US Department of Agriculture, "Professional Development Training for Sustainable Agroforestry in Kansas."

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, $3,262, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

Duncan, Stewart R., and Shoup, Douglas E. (Southeast Area Office), Kansas Soybean Commission, $5,000, "Soybean Response to Fungicide and Insecticides."

Duncan, Stewart R., Multi-Sponsor, $5,020, "Crop and Soils Multisponsor Programs."

NORTHWEST AREA OFFICE


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


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


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

Olson, Brian L., Multi-Sponsor, $16,000, "Field Evaluation for Various Industry Products."

SOUTHEAST AREA OFFICE

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

Shoup, Douglas E., Duncan, Stewart R. (Northeast Area Office), Martin, Kent L. (Southwest Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, $3,262, "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 Fungicide and Insecticides."

Shoup, Douglas E., Kansas Wheat Commission, $4,270, "Evaluation of Wheat Planted on 15in Row Spacing."

SOUTHWEST AREA OFFICE

Dumler, Troy, Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, $4,376, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."
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, $3,262, "Improving Yields of Double Crop Soybean with Starter and Foliar Fertilization."

OFFICE OF THE PRESIDENT

BEACH ART MUSEUM


OFFICE OF THE PRESIDENT

Schulz, Kirk H., Maier, Dirk E. (Grain Science and Industry), Odde, Kenneth G. (Animal Sciences and Industry), and Pierzynski, Gary M. (Dean of Agriculture and Director of AES), Kansas Bioscience Authority, $1,500,000, "Raising the Global Stature of Feed Technology and Animal Nutrition at Kansas State University."

OFFICE OF THE PROVOST

ASSESSMENT AND PROGRAM REVIEW


CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT

Procter, David E., Kettering Foundation, $19,000, "Citizens and Public Choice."

Procter, David E., Kettering Foundation, $12,000, "Communicating Outcomes of Deliberation."

Procter, David E., Kettering Foundation, $5,000, "New Centers 2012."


Steichen, Ethel M., Heartland Foundation, $26,156, "Heartland Foundation Evaluation Continuation - Years 4 - 6."
DEAN OF CONTINUING EDUCATION

Newhouse, Barbara S., US Department of Education, $75,000, "Kansas Common Core Standards - A revision to the Quality Performance Assessment."

DEAN OF GRADUATE SCHOOL

Lease, Kevin B., National Aeronautics and Space Administration, $49,683, "Kansas Space Grant Consortium."

Polson, Cheryl J., US Department of Defense, $245,474, "Brigade Spouse Courses at Fort Leavenworth."

INTERNATIONAL PROGRAMS

Wood, Mary, NCN Institute, $10,224, "English Training Sponsorship."

LIBRARY

Beard, Regina M., National Endowment for the Humanities, $750, ""Lincoln: The Constitution and the Civil War" - Traveling Exhibition."


OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT


OFFICE OF THE PROVOST

Chavez, Mirta, and Gordon, Myra E., Juvenile Justice Authority, "Project IMPACT Leadership Program."


SCHOOL OF LEADERSHIP STUDIES

Tolar, Mary H., Accenture, $4,900, "Accenture Eco Volunteering Idea Program."
Tolar, Mary H., Corporation for National and Community Service, $20,000, "Get Hands On."

Tolar, Mary H., Corporation for National and Community Service, $155,414, "Serve to Succeed."

SALINA COLLEGE OF TECHNOLOGY AND AVIATION

SALINA ARTS, SCIENCE AND BUSINESS


SALINA AVIATION


VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

KSU POLICE DEPARTMENT

Stubbings, Donald C., Kansas Department of Revenue, $5,271, "Underage Drinking at KSU Football - 2011."


VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

Shubert, Bruce, US Department of Energy, $2,600,000, "ARRA-SEP Grant 2011."
VICE PRESIDENT FOR RESEARCH

BIOSECURITY RESEARCH INSTITUTE

Higgs, Stephen, CaridianBCT Biotechnologies, $44,320, "Photochemical Inactivation of Chikungunya Virus in Mirasol-treated Human Platelets."

Higgs, Stephen, Kansas Bioscience Authority, $496,437, "Support for KSU's Biosecurity Research Institute (BRI) in the Development of Business Plans and Research Programs that Advance the Mission of the BRI."

Higgs, Stephen, Sanofi Pasteur S.A., $208,768, "Develop Optimized Conditions Necessary for Potential Recombination of Flavivirus Vaccine Yellow Fever Virus 17D."


NATIONAL AGRICULTURAL BIOSECURITY CENTER

Beardsley, Craig A., and Murdie, Amanda (Political Science), Kauffman Foundation, $12,000, "Conditional Effectiveness of Military and Civilian Human Security Effects."

Vanier, Martha A., US Department of Defense, $800,000, "Infrastructure Support for the KSU Biosecurity Research Institute Facility (NCMI FY11 Operations and Maintenance)."

Vanier, Martha A., Anderson, Gary A. (Veterinary Diagnostic Laboratory), Hesse, Richard (Diagnostic Medicine/Pathobiology), Ma, Wenjun (Diagnostic Medicine/Pathobiology), Richt, Juergen (Diagnostic Medicine/Pathobiology), and Rowland, Raymond R. R. (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

OFFICE OF THE VICE PRESIDENT FOR RESEARCH

Guikema, James A., National Science Foundation, $81,000, "National Science Foundation Graduate Research Fellowship Award."

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

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

Trewyn, R. W., Kansas Department of Commerce, $5,000,000, "Kansas Animal Agrosecurity 2025 and Beyond."

VICE PRESIDENT ELECTRONICS DESIGN LABORATORY

Sobering, Timothy J., Barstow, Thomas J. (Kinesiology), Day, Dwight D. (Electrical and Computer Engineering), Gruenbacher, Don M. (Electrical and Computer Engineering), Kuhn, William B. (Electrical and Computer Engineering), Natarajan, Balasubramaniam (Electrical and Computer Engineering), and Warren, Steven (Electrical and Computer Engineering), Kansas Board of Regents, $2,725, "Biosensor Networks and Telecommunication Subsystems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions."

Sobering, Timothy J., Barstow, Thomas J. (Kinesiology), Day, Dwight D. (Electrical and Computer Engineering), Gruenbacher, Don M. (Electrical and Computer Engineering), Kuhn, William B. (Electrical and Computer Engineering), Natarajan, Balasubramaniam (Electrical and Computer Engineering), and Warren, Steven (Electrical and Computer Engineering), National Aeronautics and Space Administration, $11,884, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions - Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

VICE PRESIDENT FOR
STUDENT LIFE AND DEAN OF STUDENTS

EDUCATIONAL AND PERSONAL DEVELOPMENT

Baublits, Jennifer L., US Department of Agriculture, $5,203, "Kansas State University Upward Bound Program - Salina Summer 2010 Food Service Program."

Baublits, Jennifer L., US Department of Education, $250,000, "Kansas State University - Salina Campus Upward Bound Project."

Greene, Kathleen V., Multi-Sponsor, $526, "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, $244,188, "Kansas State University McNair Scholars Program."


Greene, Kathleen V., US Department of Education, $222,151, "Student Support Services at KSU-Salina."


Turner, Margaret A., American Chemical Society, $2,500, "Kansas State University Upward Bound Math and Science Program - ACS Project Seed 2011 (Sahara Keith and Dakie Washington)."


Vassol, Elverta L., US Department of Agriculture, $8,926, "Kansas State University 2011 Upward Bound Program Summer Food Service Program."

KSU CHILD DEVELOPMENT CENTER, INC.

Curry, Elizabeth W., and Ring, Debra J., US Army, "Army Child Care in Your Neighborhood (ACCYN)."

Martin, Kylie S., US Department of Agriculture, $2,500, "Kansas Child Care Wellness Program (KCCWP)."

Ring, Debra J., and Curry, Elizabeth W., US Army, $218,449, "Army Child Care in Your Neighborhood (ACCYN)."

Ring, Debra J., US Department of Agriculture, $89,178, "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."
FACULTY DEVELOPMENT AWARDS

Albin, Nathan, Mathematics, $1,000; Present “Eigenvalues/Singular values and fast PDE algorithms: acceleration, conditioning, and stability” at the Banff International Research Station (BIRS) workshop in Canada

Asano, Katsura, Biology, $1,200; Visit CiRS, Center for iPS Cell Research and Application in Japan

Ben-Arieh, David H, Industrial and Manufacturing Systems Engineering, $2,000; Present “Improving the Process of Bed Management in a Children Hospital” at the International Conference on Production Research in Germany

Benjamin, Louise, School of Journalism and Mass Communications, $1,500; Present “Anatomy of a Break-up: RCA, General Electric, and the Department of Justice Anti-trust Suit of 1930” at the International Association for Media and Communication Research in Turkey

Betz, Emma, Modern Languages, $900; Present “Managing Relationship in Conversation: Two Uses of Names in Every-day German Interaction” at the International Institute for Ethnomethodology and Conversation analysis conference in Switzerland

Blanco, Humberto, Agronomy, $2,000; Present “Bioenergy Crops and their Influences on Soil and Environmental Quality/Soil Carbon Sequestration” at the Low Carbon Earth Summit in China

Canfield, Jessica, Landscape Architecture/Regional and Community Planning, $1,200; Present “Aesthetics versus Function: Assessing Resident Perception of Ecologically Designed Urban Parks at Stapleton, Colorado” at the European Council of Landscape Architecture Schools (ECLAS) Conference in England

Cai, Gangshu, Management, $3,000; Present “Multichannel Supply Chain Management” at the Informs International Conference in China

Chae, Bongsug, Management, $500; Present “IT-Enabled Services as Complex Adaptive Service Systems” at the A Co-Evolutionary View of Service Innovation Conference in China

Clark, Robert L, Modern Languages, $400; Present “Tex Escoufles Baillier Faudra / A Sathan Qui Les Plumeras (PJC 4677-78): The Allegory of the Raptor-Thieves in the Pelerinage de Jhesucrist” at the Allegory of Guillaume de Digulleville in Europe International Conference in Switzerland

Clem, Rollie J, Biology, $500; Present “Identification of lepidopteran homologs of the tumor suppressor gene p53 and interaction of Spodoptera frugiperda p53 with the baculovirus protein Ac92” at the Annual Society for Invertebrate Pathology meeting in Nova Scotia

Copple, Mary T, Modern Languages, $1,200; Present “Perfect Results: Retention and Extension in Grammaticalization” at the Pragmatics Association Conference in England

Craig, Geraldine, Art, $2,000; Present “Hmong Paj ntaub: A Visual Language of Cultural Change” at the International Global Studies Conference in Brazil

Dayton, Timothy A, English, $1,000; Present “Base and Superstructure in Literary Criticism: A Case Study” at the Historical Materialism Conference in London
DePaola, Brett D, Physics, $3,000; Funds to help purchase high-precision counters (Agilent 53132A Universal Frequency Counter)

Depaoli, Maria T, Modern Languages, $1,000; Present “The Dynamics of Screenplay Adaptation and Feminine Writing” at the Screenwriting Research Network International Conference in Belgium

Falcone, Jessica, Sociology, Anthropology, and Social Work, $500; Present “Reviving Kushinagar: Contemporary Buddhist ‘Life’ in the Place of the Buddha’s ‘Death’” at the International Association of Buddhist Studies in Taiwan

Fang, Xiang, Mathematics, $500; Present “The Fiber Dimension of an Analytic Operator” at the Geometry, Analysis and Partial Differential Equations (ICGAP) International Conference in China

Gibson, Huston, Landscape Architecture/Regional and Community Planning, $2,000; Present “Tales from the Center of the United States: A Qualitative Investigation of Why Students Study Regional and Community Planning” at the World Planning Schools Congress in Australia

Gonzalez, Tanya, English, $2,500; Present “Justin Time: Queer Latino Youth on TV MESEA” at the conference: The Society for Multi-Ethnic Studies in Europe and the Americas in Spain

Hageman, Amy, Accounting, $2,500; Present “The Impact of Bribery on Firm Tax Compliance in Transition Economies” at the European Accounting Association Annual Congress International Conference in Slovenia

Hamilton, James R, Philosophy, $750; Present “Encounters with Theatrical Characters and Performers” at the V Mediterranean Congress of Aesthetics in Spain

Hedrick, Donald K, English, $1,500; Present “Genealogies of Fun: The Revolutionary Emergence of Entertainment Value as a Theoretical Problem” at the Ninth World Shakespeare Congress in the Czech Republic

Hoag, Richard L, Architecture, $1,500; Present “Simulating Writing in Architecture Studios” at the European Architectural Envisioning Association in the Netherlands

Hubler, Angela E, Womens Studies, $500; Present “Utopia and Anti-Utopia in Lois Lowry's and Suzanne Collins' Dystopian Trilogies, Historical Materialism” at the School of Oriental and African Studies conference in England

Jani, Vibhavari, Interior Architecture and Product Design, $500; Present “Innovate to Educate: A Global Research Effort to Introduce Diverse Perspectives in Design Education” and “How to Introduce Service Learning in the 21st Century Design Education” both at the ICERI Conference in Spain

Karlin, Katherine, English, $500; Panelist at the Great Writing Conference in England

Kim, Jae Hong, Landscape Architecture/Regional and Community Planning, $500; Present “Inter-jurisdictional Competition and Land Development: A Micro-level Analysis at the 22nd Pacific Conference of Regional Science Association International in Korea

Kim, Jeong-Hee, Curriculum and Instruction, $800; Present “Rethinking Teacher Action Research as Phenomenological Bildungsroman” at the European Conference on Educational Research in Germany
Kozar, Joy, Apparel, Textiles, and Interior Design, $2,000; Present “Barriers to Socially Responsible Apparel Purchasing Behavior: Are Consumers Right?” and “The Competitive Advantages of Sourcing Agents in Global Apparel Supply Chains: An Exploratory Study” at the Academy of Marketing Science World Marketing Congress in France

Larson, Lotta C, Curriculum and Instruction, $1,200; Present “Turning the Page in the Digital Age: Using e-Book Readers to Meet the Diverse Needs of Learners” at the European Conference on Reading in Belgium


Lewis, Nora, Music, $3,000; Present “Interactions of Asian and Western Traditions in 20th Century Music for Oboe” at the College Music Society Conference in Korea

Machor, James L, English, $2,500; Present “(Re)Reading Catharine Sedgwick and Chair Panel Contentious Readings, Audience Engagement, and the Reception of Nineteenth-Century American Women Novelists” at the Society for the History of Authorship, Reading, and Publishing in Ireland

Mahoney, Jon, Philosophy, $1,000; Present “Democratic Equality and Public Legal Reason” and co-organize a workshop at the World Congress of Philosophy of Law and Social Philosophy in Germany

Maxwell, Steve, Music, $2,500; Present “Sonata for Trombone, Tuba, and Piano by John Davidson” and “Five Oddities for Tuba by Paul Hunt for Tuba” at the Tuba and Euphonium International Conference in Austria

McCrea, Heather L, History, $2,300; Present “Gulf of Disease at the SOLCHA (Simposio de la Sociedad Latinoamericana v Caribe na Historia Ambiental)” at the international conference in Colombia

Miller, Chad T, Horticulture, Forestry and Recreation Resources, $1,500; Present “Effects of flurprimidol, paclobutrazol and uniconazole dips and drenches on amaryllis growth and development and Paclobutrazol and flurprimidal tuber drenches and dips affect growth and development of calla lily” at the International Society for Horticulture Science Flower Bulb and Herbaceous Perennial Symposium in Turkey

Moore, Charles N, Mathematics, $2,000; Present “Fourier Series and the Shanks and Lubkin Transforms” at the International Conference on Scientific Computing in Italy

Morcos, Medhat M, Electrical and Computer Engineering, $500; Present “A Study of the Out-of-Phase Connection of Distributed Generators” at the International Conference and Exhibition on Electricity Distribution in Germany

Muturi, Nancy W, School of Journalism and Mass Communications, $2,000; Chair and coordinate sessions and Present “Women of Faith and HIV/AIDS: Risk Perception Challenges in Jamaica and Kenya” at the Association in Mass Communication Research Conference in Turkey

Mwangi, Sam, School of Journalism and Mass Communications, $2,000; Present “Embracing Digital Innovations for Community Engagement as a Survival Strategy for Media in Crisis, Best Practices in Communication Technologies and Citizen Engagement and Media and Citizen Engagement: A Comprehensive Global Overview” at the International Association for Media and Communication Research Conference in Turkey
Nel, Philip W, English, $1,800; Present “Erasing Race to Keep Kids Safe: The Ideological Effects of Bowdlerizing Children's Literature” at the Congress of International Research Society for Children's Literature in Australia

Nguyen, Thu A, Veterinary Diagnostic Laboratory, $614; Cancer Research

Nippert, Jesse B, Biology, $1,775; Present “Mechanisms of Mopane Expansion in Kruger Park, South Africa” at the Annual Savanna Science Networking meeting in South Africa

Oropesa, Salvador A, Modern Languages, $1,250; Present “El Cuerpo Como Escritura: Salvador Novo de la Vanguardia a La Cronica Rosa” at the Sexto Simposio Internacional CEN Centro de Estudios de Narratología ‘Mignon D. de Rodriguez Pasques’ in Argentina

Parker, Craig B, Music, $3,500; Present “East Asian Elements in the Music of Alan Hovhaness” at the College Music Society International Conference in South Korea

Passarelli, A. Lorena, Biology, $500; Present “A Gut Feeling: How Baculoviruses Establish Systemic Infections” at the Society for Invertebrate Pathology meeting in Canada

Paul, Bimal K, Geography, $500; Present “Perceived Anthrax Health Risk among Residents of Dhaka, Bangladesh” at A Spatial Analysis at the Asian Urbanization Conference in India

Potts, Donna L, English, $2,500; Present “Restoring a Lost Land: Eavan Boland's Post-Pastoral” at the Region and Nation Literature Association Conference in Hungary

Prins, Harald E, Sociology, Anthropology, and Social Work, $940; Present “Crossing Boundaries an Interdisciplinary Seminar” at the Histoire et Antropalogie des Societes Amerindiennes Ecaledes Hautes Etudes in Paris

Riding, Kyle, Civil Engineering, $2,500; Present “Effect of Diethanol-Isopropanolamine on the Hydration of Slag Blended Cements” at the International Congress on the Chemistry of Cement in Spain

Sanders III, Joseph C, English, $500; Valentine, Mobile Comics, and Participatory Readers, at the First International Conference on Comics and Graphic Novels in Alcala de Henares, Madrid, Spain

Sellers, Debra, School of Family Studies and Human Services, $1,000; Present “Educators, Aging, and Transformation: Implications for the Cooperative Extension Service in the United States of America” at the International Conference on Education in Greece

Shen, Lei Lei, Economics, $1,700; Present “Product Restructuring, Investment, Export and Growth Dynamics” at the International Atlantic Economic Conference in Turkey

Smit, David W, English, $1,500; Present “Simulating Writing in Practice in Architecture Studios” at the European Architectural Envisioning Association in the Netherlands

Spencer, Joel Q, Geology, $1,500; Present “Dating Deep? Luminescence Studies of Fault Gouge from the San Andreas Fault Zone 2.6 km Beneath Earth’s Surface” at the International Conference on Luminescence and Electron Spin Resonance Dating in Poland

Urton, Ellen R, Library, $1,300; Present “Embedded Librarianship: A Model for Promoting Sustainability on Campus” at the International Environmental, Cultural, Economic, and Social Sustainability conference in Canada
Warner, Daniel A, Art, $2,000; Present “The Motion Poster: Public Space and Visual Language” at the Helsinki Cumulus Conference: Towards Open and Participative Cities in Finland

Wiersma, Erin, Art, $1,000; Attend juried exhibition at A.I.R. Gallery in New York

Wigfall, LaBarbara J, Landscape Architecture/Regional and Community Planning, $1,200; International Conference on Corporate Social Responsibility in Sub-Saharan Africa

Wood, Naomi J, English $2,000; Plenary Speaker, Panelist, and Present “Violence and the Sacred: Mothers in Harry Potter” at the International Research Society for Children’s Literature in Australia

Zacharakis, Jeffrey T, Educational Leadership, $2,000; Attend the Oxford Round Table and Present “Entrepreneurial Program Development - Remaining Competitive in a Global Economy” in London

Zeller, Samuel C, Architecture, $500; Attend Ghost 13: International Architectural Ideas in Things Conference in Canada
UNIVERSITY SMALL RESEARCH GRANTS

Asano, Katsura, Biology, $1,800; Studies on Eukaryotic Translation Initiation Factor Structures and Interactions by NMR

Baptist, Joyce, School of Family Studies and Human Services, $2,000; Children of Military Families: Coping with Parental Military Deployment

Beamish, Anne E, Landscape Architecture/Regional and Community Planning, $2,000; Land Art + Design: A Feasibility Study (with Jon Hunt)

Borgarelli, Michele, Clinical Sciences, $2,000; Two-D and 3D Echocardiographic Evaluation of Mitral Valve in Normal Cavalier King Charles Spaniel and other Dogs

Brannon, Laura A, Psychology, $2,000; Assessing and Reducing the Behavior of Zipping Through Binge Drinking Public Service Announcements

Burnett, Debra L, School of Family Studies and Human Services, $2,500; Teaching Emotional Intelligence to Children with Autism Spectrum Disorders

Curtis, Laurie J, Curriculum and Instruction, $2,000; Beyond the CETT Initiative: Literacy Collaboration in Grenada

Da Silva, Peri, Economics, $1,500; Cooperation in the World Trade Organization under the presence of Tariff Water

Das, Anindita, School of Family Studies and Human Services, $2,500; College Students’ Expectations and Experiences as Transitioning to Motherhood

Davis, Elizabeth G, Clinical Sciences, $2,500; The Disposition of Lidocaine During a 12-hour Intravenous Infusion to Young Foals

Dobrzanski, Slawomir, Music, $4,000; Record Complete Piano Works by Maria Szymanowska (1789-1831)

Fees, Bronwyn S, School of Family Studies and Human Services, $1,500; Measuring Physical Activity in Kindergarten Children in China

Frey, Marsha L, History, $3,000; Apostles of Liberty Research Project

Fullmer, Donna L, Interior Architecture and Product Design, $1,000; Scholarship/Creative Work: Art Glass

Gibson, Huston, Landscape Architecture/Regional and Community Planning, $2,900; Naturalized, Traditional, and Hybrid Community Parks: Reasons Behind Park Typology Preferences among Residents of Stapleton, Colorado with Jessica Canfield

Gibson, Michael D, Architecture, $2,500; Cool Skins: New Experimental Building Envelopes for Resistance to Heat and Sun
Hedrick, Donald K, English, $1,000; Research on Shakespeare and Law: The Mock Trial at Washington DC’s Shakespeare Theatre and the Folger Shakespeare Library

Hoyt, Daniel A, English, $1,500; Black Paintings

Jani, Vibhavari, Interior Architecture and Product Design, $3,500; Connecting the Dot Design and Exhibition on Indian Architecture

Kang, Haijun, Educational Leadership, $3,800; Advocate Immersive Learning in Adult Education: Building a Virtual Adult Learning Lab

Kanost, Laura M, Modern Languages, $700; Bilingual Anthology of Screenplays by Mexican Women

Keane, Timothy D, Landscape Architecture/Regional and Community Planning, $400; Visit program NSF and EPA program officers

Kingery-Page, Katie E, Landscape Architecture/Regional and Community Planning, $2,000; Case Studies of Low-Energy Homes, Housing Settlements, and Associated Technologies in Kansas and Missouri

Large, Karen, Music, $2,500; Virtual Flute Choir

Lawhon, Larry L, Landscape Architecture/Regional and Community Planning, $1,000; Survey of Local Government Use of Development Impact Fees

Markham, Melinda S, School of Family Studies and Human Services, $2,500; Communication Technology Use among Divorced Parents

Martinie, Sherri, Curriculum and Instruction, $2,500; Battling Decimal Fraction Misconceptions

Nawre, Alpa, Landscape Architecture/Regional and Community Planning, $4,000; Anchoring Life and Landscape: The Indian Talaab, a Monsoon Water-Managing Device and System

Olson, Bradley J, Biology, $2,500; Discovery of Genes Important for Colonial Multicellular Evolution in Gonium Pectorale

Pakaste, Mervi, Art, $2,500; Visiting Artist/Designer during Academic Year

Pickering, David C, Music, $450, Biography of Arthur Poister

Pickering, David C, Music, $550; Study Keyboard Wellness with Sheila Paige

Riforgiate, Sarah E, Communication Studies, Theatre, and Dance, $3,000; Understanding the Role of Technology in Organizational Member Recruitment and Retention Socialization Processes

Sanders III, Joseph C, English, $1,000; Indexing Assistance for a Monograph: Disciplining Girls: Understanding the Origins of the Classic Orphan Girl Story

Scuilla, Jason, Art, $2,500; Equipment and Materials Necessary to Expand Non-Toxic Fine Art Etching with Low Voltage Electrical Current Research
Teagarden, James M, Special Education, Counseling, and Student Affairs, $1,500; Cooperative Response Colleague Team Triad Project

Yu, Han, English, $1,500; Book Manuscript tentatively titled “Comics in Technical Communication”

Zollman, Dean A, Physics, $2,200; Collaborative Research Effort on the Development of Problem Solving Abilities in Physics Students in the US and Argentina
<table>
<thead>
<tr>
<th>Department/College</th>
<th>Submitted</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COLLEGE OF AGRICULTURE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>29</td>
<td>$1,801,775</td>
<td>$3,509,920</td>
<td>24</td>
<td>$3,275,769</td>
</tr>
<tr>
<td>Agricultural Experiment Station</td>
<td>2</td>
<td>$608,484</td>
<td>$608,484</td>
<td>1</td>
<td>$165,000</td>
</tr>
<tr>
<td>Agricultural Research Center-Hays</td>
<td>14</td>
<td>$254,078</td>
<td>$352,082</td>
<td>15</td>
<td>$432,201</td>
</tr>
<tr>
<td>Agriculture and Natural Resources</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Agronomy</td>
<td>103</td>
<td>$7,562,996</td>
<td>$17,618,679</td>
<td>77</td>
<td>$6,135,014</td>
</tr>
<tr>
<td>Animal Sciences and Industry</td>
<td>39</td>
<td>$2,291,365</td>
<td>$4,554,551</td>
<td>27</td>
<td>$1,463,992</td>
</tr>
<tr>
<td>Communications</td>
<td>7</td>
<td>$369,621</td>
<td>$1,086,617</td>
<td>1</td>
<td>$49,639</td>
</tr>
<tr>
<td>Dean of Agriculture and Director of AES</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2</td>
<td>$81,958</td>
</tr>
<tr>
<td>Entomology</td>
<td>41</td>
<td>$2,075,431</td>
<td>$4,411,272</td>
<td>28</td>
<td>$1,361,623</td>
</tr>
<tr>
<td>Food Science Institute</td>
<td>1</td>
<td>$120,026</td>
<td>$120,026</td>
<td>1</td>
<td>$117,175</td>
</tr>
<tr>
<td>Grain Science and Industry</td>
<td>59</td>
<td>$6,452,183</td>
<td>$9,779,535</td>
<td>37</td>
<td>$2,165,610</td>
</tr>
<tr>
<td>Horticulture, Forestry and Recreation Resources</td>
<td>37</td>
<td>$2,942,028</td>
<td>$8,461,257</td>
<td>16</td>
<td>$755,787</td>
</tr>
<tr>
<td>International Agricultural Programs</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2</td>
<td>$125,945</td>
</tr>
<tr>
<td>Kansas Industrial Extension Services</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>KS Ctr for Agri &amp; the Env./KS Water Resource Res. Inst.</td>
<td>23</td>
<td>$1,831,495</td>
<td>$2,696,290</td>
<td>16</td>
<td>$1,514,499</td>
</tr>
<tr>
<td>Northwest Research Extension Center</td>
<td>9</td>
<td>$65,838</td>
<td>$73,110</td>
<td>7</td>
<td>$231,733</td>
</tr>
<tr>
<td>Office of Academic Programs</td>
<td>1</td>
<td>$144,561</td>
<td>$144,561</td>
<td>1</td>
<td>$74,134</td>
</tr>
<tr>
<td>Plant Biotechnology Center</td>
<td>1</td>
<td>$80,000</td>
<td>$380,000</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Plant Pathology</td>
<td>60</td>
<td>$6,567,946</td>
<td>$16,608,942</td>
<td>61</td>
<td>$7,375,691</td>
</tr>
<tr>
<td>Southeast Agricultural Research Center</td>
<td>3</td>
<td>$43,248</td>
<td>$55,934</td>
<td>3</td>
<td>$39,607</td>
</tr>
<tr>
<td>Southwest Research Extension Center</td>
<td>8</td>
<td>$185,020</td>
<td>$988,001</td>
<td>7</td>
<td>$453,934</td>
</tr>
<tr>
<td><strong>Total Agriculture</strong></td>
<td>437</td>
<td>$33,396,095</td>
<td>$71,449,261</td>
<td>326</td>
<td>$25,819,311</td>
</tr>
<tr>
<td><strong>COLLEGE OF ARCHITECTURE, PLANNING &amp; DESIGN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>1</td>
<td>$35,000</td>
<td>$35,000</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Dean of Architecture, Planning and Design</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Interior Architecture and Product Design</td>
<td>3</td>
<td>$83,566</td>
<td>$269,924</td>
<td>2</td>
<td>$33,982</td>
</tr>
<tr>
<td>Landscape Architecture/Regional &amp; Community Planning</td>
<td>6</td>
<td>$599,736</td>
<td>$781,029</td>
<td>4</td>
<td>$261,936</td>
</tr>
<tr>
<td><strong>Total Architecture, Planning and Design</strong></td>
<td>10</td>
<td>$718,302</td>
<td>$1,085,953</td>
<td>6</td>
<td>$295,918</td>
</tr>
<tr>
<td><strong>COLLEGE OF ARTS AND SCIENCES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Ethnic Studies</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Art</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>24</td>
<td>$3,634,964</td>
<td>$9,612,159</td>
<td>11</td>
<td>$1,383,653</td>
</tr>
<tr>
<td>Biology</td>
<td>90</td>
<td>$14,288,775</td>
<td>$32,202,313</td>
<td>60</td>
<td>$10,262,919</td>
</tr>
<tr>
<td>Center for Basic Cancer Research</td>
<td>1</td>
<td>$90,000</td>
<td>$270,000</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Chemistry</td>
<td>49</td>
<td>$5,749,857</td>
<td>$13,048,755</td>
<td>14</td>
<td>$1,673,244</td>
</tr>
<tr>
<td>Communication Studies, Theatre and Dance</td>
<td>1</td>
<td>$118,678</td>
<td>$592,263</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Community Health Institute</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Dean of Arts and Sciences</td>
<td>1</td>
<td>$443,484</td>
<td>$443,484</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Economics</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
<td>$180,674</td>
<td>$180,674</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Geography</td>
<td>27</td>
<td>$2,645,522</td>
<td>$10,722,116</td>
<td>12</td>
<td>$423,393</td>
</tr>
<tr>
<td>Geology</td>
<td>9</td>
<td>$748,723</td>
<td>$1,631,585</td>
<td>7</td>
<td>$486,811</td>
</tr>
<tr>
<td>History</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2</td>
<td>$43,000</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>8</td>
<td>$890.369</td>
<td>$926,119</td>
<td>6</td>
<td>$268,607</td>
</tr>
<tr>
<td>Mathematics</td>
<td>20</td>
<td>$1,753,299</td>
<td>$6,585,432</td>
<td>7</td>
<td>$539,233</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>
### Annual Proposal/Award Summary
**07/01/11 - 06/30/12**

<table>
<thead>
<tr>
<th>Department/College</th>
<th>ProposalsSubmitted</th>
<th>ProposalsPeriod</th>
<th>ProposalsTotal</th>
<th>AwardsReceived</th>
<th>AwardsTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>2</td>
<td>$25,950</td>
<td>$173,358</td>
<td>1</td>
<td>$15,950</td>
</tr>
<tr>
<td>Philosophy</td>
<td>1</td>
<td>$8,996</td>
<td>$27,284</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Physics</td>
<td>36</td>
<td>$6,576,630</td>
<td>$18,839,091</td>
<td>22</td>
<td>$6,921,664</td>
</tr>
<tr>
<td>Political Science</td>
<td>3</td>
<td>$170,213</td>
<td>$701,134</td>
<td>2</td>
<td>$87,469</td>
</tr>
<tr>
<td>Psychology</td>
<td>13</td>
<td>$2,426,737</td>
<td>$4,447,266</td>
<td>4</td>
<td>$1,181,142</td>
</tr>
<tr>
<td>School of Journalism and Mass Communications</td>
<td>1</td>
<td>$192,258</td>
<td>$192,258</td>
<td>1</td>
<td>$388,368</td>
</tr>
<tr>
<td>Sociology, Anthropology and Social Work</td>
<td>12</td>
<td>$546,203</td>
<td>$962,657</td>
<td>5</td>
<td>$87,277</td>
</tr>
<tr>
<td>Statistics</td>
<td>9</td>
<td>$387,960</td>
<td>$1,493,841</td>
<td>2</td>
<td>$36,953</td>
</tr>
<tr>
<td>Women Studies</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Total Arts and Sciences**

- **308 Proposals Submitted**
- **$40,879,292 Proposals Period Total**
- **$103,051,789 Proposals Total**
- **156 Awards Received**
- **$23,799,683 Awards Total**

### COLLEGE OF BUSINESS ADMINISTRATION

<table>
<thead>
<tr>
<th>Department</th>
<th>ProposalsSubmitted</th>
<th>ProposalsPeriod</th>
<th>ProposalsTotal</th>
<th>AwardsReceived</th>
<th>AwardsTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Accounting</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Dean of Business Administration</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Management</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>2</td>
<td>$38,002</td>
</tr>
<tr>
<td>Marketing</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Total Business Administration**

- **0 Proposals Submitted**
- **$0 Proposals Period Total**
- **$0 Proposals Total**
- **2 Awards Received**
- **$38,002 Awards Total**

### COLLEGE OF EDUCATION

<table>
<thead>
<tr>
<th>Department</th>
<th>ProposalsSubmitted</th>
<th>ProposalsPeriod</th>
<th>ProposalsTotal</th>
<th>AwardsReceived</th>
<th>AwardsTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum and Instruction</td>
<td>3</td>
<td>$162,572</td>
<td>$475,614</td>
<td>1</td>
<td>$4,014</td>
</tr>
<tr>
<td>Dean of Education</td>
<td>33</td>
<td>$3,009,831</td>
<td>$8,635,221</td>
<td>29</td>
<td>$5,678,838</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>1</td>
<td>$168,369</td>
<td>$549,995</td>
<td>1</td>
<td>$66,106</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Special Education, Counseling and Student Affairs</td>
<td>1</td>
<td>$167,936</td>
<td>$299,998</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Total Education**

- **38 Proposals Submitted**
- **$3,508,708 Proposals Period Total**
- **$9,960,828 Proposals Total**
- **31 Awards Received**
- **$5,748,958 Awards Total**

### COLLEGE OF ENGINEERING

<table>
<thead>
<tr>
<th>Department</th>
<th>ProposalsSubmitted</th>
<th>ProposalsPeriod</th>
<th>ProposalsTotal</th>
<th>AwardsReceived</th>
<th>AwardsTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Manufacturing Institute</td>
<td>7</td>
<td>$387,330</td>
<td>$1,177,996</td>
<td>6</td>
<td>$1,390,487</td>
</tr>
<tr>
<td>Architectural Engineering and Construction Science</td>
<td>1</td>
<td>$30,000</td>
<td>$30,000</td>
<td>2</td>
<td>$60,722</td>
</tr>
<tr>
<td>Biological and Agricultural Engineering</td>
<td>33</td>
<td>$3,372,145</td>
<td>$5,332,654</td>
<td>26</td>
<td>$1,746,929</td>
</tr>
<tr>
<td>Center for Hazardous Substance Research</td>
<td>5</td>
<td>$203,307</td>
<td>$573,644</td>
<td>7</td>
<td>$595,543</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>21</td>
<td>$7,998,607</td>
<td>$11,358,380</td>
<td>13</td>
<td>$1,767,029</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>40</td>
<td>$4,225,764</td>
<td>$9,612,278</td>
<td>20</td>
<td>$1,505,432</td>
</tr>
<tr>
<td>Computing and Information Sciences</td>
<td>33</td>
<td>$6,452,850</td>
<td>$15,854,647</td>
<td>16</td>
<td>$2,902,450</td>
</tr>
<tr>
<td>Dean of Engineering</td>
<td>3</td>
<td>$363,096</td>
<td>$3,863,096</td>
<td>3</td>
<td>$3,862,252</td>
</tr>
<tr>
<td>Electrical and Computer Engineering</td>
<td>28</td>
<td>$2,465,145</td>
<td>$5,503,983</td>
<td>25</td>
<td>$2,105,802</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>3</td>
<td>$173,276</td>
<td>$173,276</td>
<td>3</td>
<td>$173,276</td>
</tr>
<tr>
<td>Industrial and Manufacturing Systems Engineering</td>
<td>24</td>
<td>$1,264,767</td>
<td>$2,107,841</td>
<td>13</td>
<td>$787,941</td>
</tr>
<tr>
<td>Institute for Environmental Research</td>
<td>7</td>
<td>$502,846</td>
<td>$811,360</td>
<td>10</td>
<td>$898,846</td>
</tr>
<tr>
<td>Kansas Industrial Extension Service</td>
<td>14</td>
<td>$1,247,828</td>
<td>$1,804,600</td>
<td>12</td>
<td>$672,125</td>
</tr>
<tr>
<td>Mechanical and Nuclear Engineering</td>
<td>47</td>
<td>$6,784,796</td>
<td>$16,071,848</td>
<td>29</td>
<td>$3,549,961</td>
</tr>
</tbody>
</table>
## Annual Proposal/Award Summary
07/01/11 - 06/30/12

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Proposals Submitted</th>
<th>Proposals Period</th>
<th>Proposals Total</th>
<th>Awards Received</th>
<th>Awards Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Gas Machinery Laboratory</td>
<td>3</td>
<td>$335,832</td>
<td>$824,088</td>
<td>1</td>
<td>$58,216</td>
</tr>
<tr>
<td>National Institute for Land Management and Training</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Engineering</strong></td>
<td>269</td>
<td><strong>$35,807,589</strong></td>
<td><strong>$75,099,691</strong></td>
<td>186</td>
<td><strong>$22,077,011</strong></td>
</tr>
</tbody>
</table>

### COLLEGE OF HUMAN ECOLOGY

<table>
<thead>
<tr>
<th>Department</th>
<th>Proposals Submitted</th>
<th>Proposals Period</th>
<th>Proposals Total</th>
<th>Awards Received</th>
<th>Awards Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparel, Textiles, and Interior Design</td>
<td>1</td>
<td>$240,905</td>
<td>$749,998</td>
<td>2</td>
<td>$28,854</td>
</tr>
<tr>
<td>Communication Studies, Theatre, Dance</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Communications</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Dean of Human Ecology</td>
<td>4</td>
<td>$438,806</td>
<td>$959,728</td>
<td>4</td>
<td>$428,501</td>
</tr>
<tr>
<td>Hospitality Management and Dietetics</td>
<td>1</td>
<td>$8,760</td>
<td>$8,760</td>
<td>2</td>
<td>$145,168</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>14</td>
<td>$1,912,584</td>
<td>$2,952,217</td>
<td>13</td>
<td>$2,564,729</td>
</tr>
<tr>
<td>School of Family Studies and Human Services</td>
<td>15</td>
<td>$13,193,704</td>
<td>$14,219,327</td>
<td>16</td>
<td>$15,630,852</td>
</tr>
<tr>
<td><strong>Total Human Ecology</strong></td>
<td>35</td>
<td><strong>$15,794,759</strong></td>
<td><strong>$18,890,030</strong></td>
<td>37</td>
<td><strong>$18,798,104</strong></td>
</tr>
</tbody>
</table>

### COLLEGE OF TECHNOLOGY AND AVIATION

<table>
<thead>
<tr>
<th>Department</th>
<th>Proposals Submitted</th>
<th>Proposals Period</th>
<th>Proposals Total</th>
<th>Awards Received</th>
<th>Awards Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Services</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Applied Aviation Research Center</td>
<td>1</td>
<td>$4,291</td>
<td>$12,873</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Arts, Science and Business</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$4,500</td>
</tr>
<tr>
<td>Aviation</td>
<td>1</td>
<td>$45,000</td>
<td>$45,000</td>
<td>1</td>
<td>$14,066</td>
</tr>
<tr>
<td>Dean of College of Technology and Aviation</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>1</td>
<td>$296,994</td>
<td>$818,113</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Fiscal Affairs</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Technology and Aviation</strong></td>
<td>3</td>
<td><strong>$346,285</strong></td>
<td><strong>$875,986</strong></td>
<td>2</td>
<td><strong>$18,566</strong></td>
</tr>
</tbody>
</table>

### COLLEGE OF VETERINARY MEDICINE

<table>
<thead>
<tr>
<th>Department</th>
<th>Proposals Submitted</th>
<th>Proposals Period</th>
<th>Proposals Total</th>
<th>Awards Received</th>
<th>Awards Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology</td>
<td>48</td>
<td>$7,334,213</td>
<td>$22,930,335</td>
<td>20</td>
<td>$3,090,238</td>
</tr>
<tr>
<td>Clinical Sciences</td>
<td>22</td>
<td>$1,246,687</td>
<td>$1,767,097</td>
<td>16</td>
<td>$1,219,405</td>
</tr>
<tr>
<td>Dean of Veterinary Medical Center</td>
<td>1</td>
<td>$1,374,873</td>
<td>$4,897,195</td>
<td>2</td>
<td>$287,167</td>
</tr>
<tr>
<td>Diagnostic Medicine/Pathobiology</td>
<td>36</td>
<td>$9,465,140</td>
<td>$18,929,328</td>
<td>34</td>
<td>$8,882,207</td>
</tr>
<tr>
<td>Veterinary Diagnostic Laboratory</td>
<td>4</td>
<td>$248,449</td>
<td>$248,449</td>
<td>3</td>
<td>$61,860</td>
</tr>
<tr>
<td>Veterinary Medical Teaching Hospital</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>3</td>
<td>$22,405</td>
</tr>
<tr>
<td><strong>Total Veterinary Medical Center</strong></td>
<td>111</td>
<td><strong>$19,669,362</strong></td>
<td><strong>$48,772,404</strong></td>
<td>78</td>
<td><strong>$13,563,282</strong></td>
</tr>
</tbody>
</table>

### COOPERATIVE EXTENSION

#### Cooperative Extension - Agriculture

<table>
<thead>
<tr>
<th>Department</th>
<th>Proposals Submitted</th>
<th>Proposals Period</th>
<th>Proposals Total</th>
<th>Awards Received</th>
<th>Awards Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Economics</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Agriculture and Natural Resources</td>
<td>3</td>
<td>$798,017</td>
<td>$798,017</td>
<td>3</td>
<td>$383,458</td>
</tr>
<tr>
<td>Agronomy</td>
<td>1</td>
<td>$10,368</td>
<td>$10,368</td>
<td>1</td>
<td>$10,368</td>
</tr>
<tr>
<td>Biological and Agricultural Engineering</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Communications</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>County Agents-Metropolitan Sector</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>County Agents-Northwest Sector</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Director of Cooperative Extension</td>
<td>4</td>
<td>$3,434,247</td>
<td>$3,434,247</td>
<td>4</td>
<td>$3,376,842</td>
</tr>
<tr>
<td>Four-H Youth Development</td>
<td>5</td>
<td>$359,657</td>
<td>$359,657</td>
<td>5</td>
<td>$295,157</td>
</tr>
<tr>
<td>Kansas Forest Service</td>
<td>12</td>
<td>$5,265,747</td>
<td>$5,265,747</td>
<td>12</td>
<td>$6,522,887</td>
</tr>
</tbody>
</table>
### Annual Proposal/Award Summary

07/01/11 - 06/30/12

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Proposed</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northeast Area Office</strong></td>
<td>3</td>
<td>$12,117</td>
<td>$12,117</td>
<td>4</td>
<td>$17,137</td>
</tr>
<tr>
<td><strong>Northeast/Metro Area Office</strong></td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Northwest Area Office</strong></td>
<td>2</td>
<td>$75,685</td>
<td>$75,685</td>
<td>3</td>
<td>$91,685</td>
</tr>
<tr>
<td><strong>Southeast Area Office</strong></td>
<td>3</td>
<td>$15,478</td>
<td>$15,478</td>
<td>3</td>
<td>$12,532</td>
</tr>
<tr>
<td><strong>Southwest Area Office</strong></td>
<td>3</td>
<td>$26,399</td>
<td>$123,596</td>
<td>2</td>
<td>$7,638</td>
</tr>
<tr>
<td><strong>Subtotal Cooperative Ext - Agriculture</strong></td>
<td>36</td>
<td>$9,997,715</td>
<td>$10,094,912</td>
<td>37</td>
<td>$10,717,704</td>
</tr>
<tr>
<td><strong>Cooperative Extension - Human Ecology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family and Consumer Sciences</td>
<td>1</td>
<td>$4,745,011</td>
<td>$4,745,011</td>
<td>1</td>
<td>$2,359,722</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Nutrition Program</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Subtotal Cooperative Ext - Human Ecology</strong></td>
<td>1</td>
<td>$4,745,011</td>
<td>$4,745,011</td>
<td>1</td>
<td>$2,359,722</td>
</tr>
<tr>
<td><strong>Total Cooperative Extension</strong></td>
<td>37</td>
<td>$14,742,726</td>
<td>$14,839,923</td>
<td>38</td>
<td>$13,077,426</td>
</tr>
</tbody>
</table>

#### OFFICE OF THE PRESIDENT

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Proposed</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auditorium Performances</td>
<td>1</td>
<td>$3,200</td>
<td>$3,200</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Beach Art Museum</td>
<td>1</td>
<td>$151,500</td>
<td>$151,500</td>
<td>1</td>
<td>$75,000</td>
</tr>
<tr>
<td>Office of the President</td>
<td>1</td>
<td>$1,500,000</td>
<td>$1,500,000</td>
<td>1</td>
<td>$1,500,000</td>
</tr>
<tr>
<td><strong>Total Office of the President</strong></td>
<td>3</td>
<td>$1,654,700</td>
<td>$1,654,700</td>
<td>2</td>
<td>$1,575,000</td>
</tr>
</tbody>
</table>

#### OFFICE OF THE PROVOST

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Proposed</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment and Program Review</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$39,078</td>
</tr>
<tr>
<td>Center for Engagement and Community Development</td>
<td>3</td>
<td>$251,007</td>
<td>$670,380</td>
<td>5</td>
<td>$471,045</td>
</tr>
<tr>
<td>Dean of Continuing Education</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$75,000</td>
</tr>
<tr>
<td>Dean of Graduate School</td>
<td>2</td>
<td>$295,157</td>
<td>$295,157</td>
<td>2</td>
<td>$295,157</td>
</tr>
<tr>
<td>International Programs</td>
<td>2</td>
<td>$141,335</td>
<td>$264,929</td>
<td>1</td>
<td>$10,224</td>
</tr>
<tr>
<td>Kansas Center for Rural Initiatives</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Library</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$750</td>
</tr>
<tr>
<td>Office of Diversity and Dual Career Development</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$35,002</td>
</tr>
<tr>
<td>Office of the Provost</td>
<td>2</td>
<td>$180,129</td>
<td>$653,714</td>
<td>1</td>
<td>$53,051</td>
</tr>
<tr>
<td>Regent's Educational Communications Center</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>School of Leadership Studies</td>
<td>3</td>
<td>$111,257</td>
<td>$111,257</td>
<td>3</td>
<td>$180,314</td>
</tr>
<tr>
<td>Office of Vice President for Communications and Marketing</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Office of the Provost</strong></td>
<td>12</td>
<td>$978,885</td>
<td>$1,995,437</td>
<td>16</td>
<td>$1,159,621</td>
</tr>
</tbody>
</table>

#### OFFICE OF THE VICE PRESIDENT FOR ACADEMIC SERVICES AND TECHNOLOGY

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Proposed</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Technology Assistance Center</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Academic Services and Technology</strong></td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
</tbody>
</table>
## OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Submitted</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Office</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>KSU Police Department</td>
<td>1</td>
<td>$5,271</td>
<td>$5,271</td>
<td>2</td>
<td>$205,271</td>
</tr>
<tr>
<td>Public Safety</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$2,600,000</td>
</tr>
<tr>
<td>Vice President for Administration and Finance</td>
<td>1</td>
<td>$2,600,000</td>
<td>$2,600,000</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Administration and Finance</strong></td>
<td><strong>2</strong></td>
<td><strong>$2,605,271</strong></td>
<td><strong>$2,605,271</strong></td>
<td><strong>3</strong></td>
<td><strong>$2,805,271</strong></td>
</tr>
</tbody>
</table>

## OFFICE OF THE VICE PRESIDENT FOR RESEARCH

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Submitted</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biosecurity Research Institute</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>4</td>
<td>$752,521</td>
</tr>
<tr>
<td>Comparative Medicine</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>K-State Olathe Innovation Campus</td>
<td>3</td>
<td>$1,077,597</td>
<td>$2,148,856</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>National Agricultural Biosecurity Center</td>
<td>2</td>
<td>$67,000</td>
<td>$67,000</td>
<td>2</td>
<td>$812,000</td>
</tr>
<tr>
<td>Office of the Vice President for Research</td>
<td>1</td>
<td>$443,484</td>
<td>$443,484</td>
<td>2</td>
<td>$5,081,000</td>
</tr>
<tr>
<td>Vice President Biotech Laboratory</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>1</td>
<td>$57,054</td>
</tr>
<tr>
<td>Vice President Electronics Design Laboratory</td>
<td>1</td>
<td>$2,725</td>
<td>$2,725</td>
<td>3</td>
<td>$330,790</td>
</tr>
<tr>
<td><strong>Total Vice President for Research</strong></td>
<td><strong>7</strong></td>
<td><strong>$1,590,806</strong></td>
<td><strong>$2,662,065</strong></td>
<td><strong>12</strong></td>
<td><strong>$7,033,365</strong></td>
</tr>
</tbody>
</table>

## OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Submitted</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Housing</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Educational and Personal Development</td>
<td>5</td>
<td>$1,166,449</td>
<td>$5,820,965</td>
<td>11</td>
<td>$1,288,752</td>
</tr>
<tr>
<td>KSU Child Development Center, Inc.</td>
<td>1</td>
<td>$2,500</td>
<td>$2,500</td>
<td>3</td>
<td>$310,126</td>
</tr>
<tr>
<td>Office of Vice President for Student Life</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>University Counseling Services</td>
<td>1</td>
<td>$74,000</td>
<td>$74,000</td>
<td>1</td>
<td>$37,000</td>
</tr>
<tr>
<td><strong>Total Student Life and Dean of Students</strong></td>
<td><strong>7</strong></td>
<td><strong>$1,242,949</strong></td>
<td><strong>$5,897,465</strong></td>
<td><strong>15</strong></td>
<td><strong>$1,635,878</strong></td>
</tr>
</tbody>
</table>

## University Totals

<table>
<thead>
<tr>
<th>Department/College</th>
<th>Submitted</th>
<th>Period</th>
<th>Total</th>
<th>Received</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Totals</td>
<td><strong>1,279</strong></td>
<td><strong>$172,935,729</strong></td>
<td><strong>$358,840,803</strong></td>
<td><strong>910</strong></td>
<td><strong>$137,445,396</strong></td>
</tr>
<tr>
<td>Department / Program</td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
<td>2012</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>AGRICULTURE</strong></td>
<td>$19,546</td>
<td>$0</td>
<td>$41,518</td>
<td>$0</td>
<td>$81,958</td>
</tr>
<tr>
<td>Dean of Agriculture &amp; Director of AES</td>
<td>$2,529,003</td>
<td>$1,350,847</td>
<td>$2,408,959</td>
<td>$2,179,162</td>
<td>$3,275,769</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>$3,402,577</td>
<td>$4,892,905</td>
<td>$6,779,713</td>
<td>$4,911,685</td>
<td>$6,135,014</td>
</tr>
<tr>
<td>Agronomy</td>
<td>$2,855,594</td>
<td>$1,882,156</td>
<td>$1,327,458</td>
<td>$2,425,820</td>
<td>$1,463,992</td>
</tr>
<tr>
<td>Animal Sciences &amp; Industry</td>
<td>$40,313</td>
<td>$76,436</td>
<td>$0</td>
<td>$49,639</td>
<td>$0</td>
</tr>
<tr>
<td>Communications</td>
<td>$2,075,416</td>
<td>$1,560,774</td>
<td>$1,896,520</td>
<td>$3,166,683</td>
<td>$3,621,623</td>
</tr>
<tr>
<td>Entomology</td>
<td>$13,351</td>
<td>$112,657</td>
<td>$218,472</td>
<td>$117,689</td>
<td>$117,175</td>
</tr>
<tr>
<td>Food Science Institute</td>
<td>$1,408,563</td>
<td>$3,396,241</td>
<td>$1,582,167</td>
<td>$1,376,246</td>
<td>$2,165,610</td>
</tr>
<tr>
<td>Grain Science &amp; Industry</td>
<td>$1,046,376</td>
<td>$1,082,763</td>
<td>$514,216</td>
<td>$386,299</td>
<td>$755,787</td>
</tr>
<tr>
<td>Hort., Forestry &amp; Recreation Resources</td>
<td>$1,175,294</td>
<td>$1,162,860</td>
<td>$886,398</td>
<td>$647,659</td>
<td>$1,514,499</td>
</tr>
<tr>
<td>International Agriculture Programs</td>
<td>$41,000</td>
<td>$52,295</td>
<td>$41,305</td>
<td>$93,607</td>
<td>$0</td>
</tr>
<tr>
<td>KS Ctr for Agri &amp; the Env/KS Water Res. Inst.</td>
<td>$3,714,770</td>
<td>$7,607,972</td>
<td>$6,754,886</td>
<td>$5,451,762</td>
<td>$7,375,891</td>
</tr>
<tr>
<td>Office of Academic Programs</td>
<td>$3,101,574</td>
<td>$104,209</td>
<td>$424,058</td>
<td>$796,100</td>
<td>$3,376,842</td>
</tr>
<tr>
<td>Agricultural Experiment Station</td>
<td>$45,528</td>
<td>$3,391,477</td>
<td>$5,914,897</td>
<td>$493,890</td>
<td>$6,522,887</td>
</tr>
<tr>
<td>Extension Directors</td>
<td>$130,100</td>
<td>$77,280</td>
<td>$253,000</td>
<td>$228,500</td>
<td>$295,157</td>
</tr>
<tr>
<td>Extension Grain Science and Industry</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Hort., Forestry &amp; Rec. Res.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Animal Sciences &amp; Industry</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Biological &amp; Agricultural Engineering</td>
<td>$0</td>
<td>$0</td>
<td>$45,000</td>
<td>$25,000</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Communications</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Community Health Institute</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Entomology</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Human Nutrition</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Four-H Youth Development</td>
<td>$378,198</td>
<td>$338,250</td>
<td>$333,010</td>
<td>$210,000</td>
<td>$165,000</td>
</tr>
<tr>
<td>Extension Kansas Forest Service</td>
<td>$138,756</td>
<td>$123,192</td>
<td>$333,010</td>
<td>$210,000</td>
<td>$165,000</td>
</tr>
<tr>
<td>Extension Kansas Water Resource Res. Inst.</td>
<td>$5,500</td>
<td>$5,330</td>
<td>$10,620</td>
<td>$12,446</td>
<td>$17,137</td>
</tr>
<tr>
<td>Extension Northeast Area Office</td>
<td>$6,700</td>
<td>$35,954</td>
<td>$18,522</td>
<td>$40,619</td>
<td>$91,585</td>
</tr>
<tr>
<td>Extension Plant Pathology</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Agriculture and Natural Resources</td>
<td>$733,769</td>
<td>$690,210</td>
<td>$489,315</td>
<td>$503,211</td>
<td>$383,458</td>
</tr>
<tr>
<td>Extension Southeast Central Area Office</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Extension Southeast Area Office</td>
<td>$0</td>
<td>$0</td>
<td>$900</td>
<td>$3,933</td>
<td>$37,776</td>
</tr>
<tr>
<td>Extension Southwest Area Office</td>
<td>$0</td>
<td>$77,388</td>
<td>$45,169</td>
<td>$21,710</td>
<td>$7,638</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$2,075,900</td>
<td>$28,886,737</td>
<td>$31,743,036</td>
<td>$23,830,745</td>
<td>$36,537,015</td>
</tr>
</tbody>
</table>

**ARCHITECTURE, PLANNING AND DESIGN**

<table>
<thead>
<tr>
<th>Department / Program</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Architecture, Planning &amp; Design</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Architecture</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Interior Architecture and Product Design</td>
<td>$0</td>
<td>$0</td>
<td>$5,000</td>
<td>$0</td>
<td>$33,982</td>
</tr>
<tr>
<td>Landscape Arch/Regional &amp; Comm Plan</td>
<td>$0</td>
<td>$0</td>
<td>$167,343</td>
<td>$60,008</td>
<td>$261,936</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$0</td>
<td>$0</td>
<td>$172,343</td>
<td>$60,008</td>
<td>$295,918</td>
</tr>
</tbody>
</table>

**ARTS AND SCIENCES**

<table>
<thead>
<tr>
<th>Department / Program</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Arts &amp; Sciences</td>
<td>$976,305</td>
<td>$1,668,091</td>
<td>$0</td>
<td>$150,000</td>
<td>$0</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>$2,347,721</td>
<td>$1,158,896</td>
<td>$3,018,734</td>
<td>$1,457,390</td>
<td>$1,383,853</td>
</tr>
<tr>
<td>Biology</td>
<td>$10,827,536</td>
<td>$7,271,896</td>
<td>$8,171,385</td>
<td>$8,471,140</td>
<td>$10,262,919</td>
</tr>
<tr>
<td>Chemistry</td>
<td>$1,793,346</td>
<td>$2,498,285</td>
<td>$3,340,693</td>
<td>$3,784,835</td>
<td>$1,673,244</td>
</tr>
<tr>
<td>Communication Studies, Theatre &amp; Dance</td>
<td>$0</td>
<td>$10,962</td>
<td>$593,740</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Community Health Institute</td>
<td>$545,503</td>
<td>$24,118</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Economics</td>
<td>$510,961</td>
<td>$85,000</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>English</td>
<td>$3,300</td>
<td>$0</td>
<td>$740</td>
<td>$23,334</td>
<td>$0</td>
</tr>
<tr>
<td>Geography</td>
<td>$296,582</td>
<td>$263,927</td>
<td>$165,536</td>
<td>$497,609</td>
<td>$423,393</td>
</tr>
<tr>
<td>Geology</td>
<td>$44,250</td>
<td>$187,153</td>
<td>$288,128</td>
<td>$172,352</td>
<td>$486,811</td>
</tr>
<tr>
<td>History</td>
<td>$45,000</td>
<td>$84,987</td>
<td>$65,000</td>
<td>$25,000</td>
<td>$43,000</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>$178,355</td>
<td>$132,002</td>
<td>$317,481</td>
<td>$198,395</td>
<td>$288,607</td>
</tr>
<tr>
<td>Mathematics</td>
<td>$225,140</td>
<td>$278,372</td>
<td>$1,183,781</td>
<td>$387,717</td>
<td>$539,233</td>
</tr>
<tr>
<td>Music</td>
<td>$16,326</td>
<td>$15,920</td>
<td>$14,050</td>
<td>$17,850</td>
<td>$15,960</td>
</tr>
<tr>
<td>Year</td>
<td>Philosophy</td>
<td>Physics</td>
<td>Political Science</td>
<td>Psychology</td>
<td>School of Journalism &amp; Mass Communications</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
<td>---------</td>
<td>------------------</td>
<td>------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>2008</td>
<td>$34,000</td>
<td>$6,521,188</td>
<td>$85,320</td>
<td>$428,399</td>
<td>$656,180</td>
</tr>
<tr>
<td>2009</td>
<td>$0</td>
<td>$7,020,697</td>
<td>$0</td>
<td>$196,473</td>
<td>$38,873</td>
</tr>
<tr>
<td>2010</td>
<td>$0</td>
<td>$5,241,624</td>
<td>$0</td>
<td>$625,142</td>
<td>$760,237</td>
</tr>
<tr>
<td>2011</td>
<td>$0</td>
<td>$9,318,025</td>
<td>$0</td>
<td>$648,914</td>
<td>$89,924</td>
</tr>
<tr>
<td>2012</td>
<td>$0</td>
<td>$6,921,664</td>
<td>$0</td>
<td>$1,181,142</td>
<td>$388,368</td>
</tr>
</tbody>
</table>

**BUSINESS ADMINISTRATION**

<table>
<thead>
<tr>
<th>Year</th>
<th>Dean of Business Administration</th>
<th>Accounting</th>
<th>Marketing</th>
<th>Management</th>
<th>College Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$6,750</td>
<td>$6,750</td>
</tr>
<tr>
<td>2009</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$28,213</td>
<td>$28,213</td>
</tr>
<tr>
<td>2010</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$228,749</td>
<td>$244,212</td>
</tr>
<tr>
<td>2011</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$38,772</td>
<td>$42,022</td>
</tr>
</tbody>
</table>

**EDUCATION**

<table>
<thead>
<tr>
<th>Year</th>
<th>Curriculum and Instruction</th>
<th>Dean of Education</th>
<th>Educational Leadership</th>
<th>Elementary Education</th>
<th>Secondary Education</th>
<th>Special Education, Counseling and Student Affairs</th>
<th>College Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$0</td>
<td>$6,394,039</td>
<td>$21,823</td>
<td>$5,000</td>
<td>$70,604</td>
<td>$3,500</td>
<td>$6,494,966</td>
</tr>
<tr>
<td>2009</td>
<td>$0</td>
<td>$5,340,335</td>
<td>$198,056</td>
<td>$31,870</td>
<td>$30,984</td>
<td>$3,500</td>
<td>$5,570,261</td>
</tr>
<tr>
<td>2010</td>
<td>$0</td>
<td>$6,403,595</td>
<td>$110,947</td>
<td>$32,370</td>
<td>$0</td>
<td>$3,500</td>
<td>$6,577,896</td>
</tr>
<tr>
<td>2011</td>
<td>$0</td>
<td>$3,690,061</td>
<td>$65,885</td>
<td>$32,370</td>
<td>$0</td>
<td>$3,500</td>
<td>$3,788,316</td>
</tr>
</tbody>
</table>

**ENGINEERING**

<table>
<thead>
<tr>
<th>Year</th>
<th>Dean of Engineering</th>
<th>Advanced Manufacturing Institute</th>
<th>Architectural Engg &amp; Construction Sci</th>
<th>Biological &amp; Agricultural Engineering</th>
<th>Center for Hazardous Substance Research</th>
<th>Chemical Engineering</th>
<th>Civil Engineering</th>
<th>Computing &amp; Information Sciences</th>
<th>Electrical &amp; Computer Engineering</th>
<th>Engineering Experiment Station</th>
<th>Institute for Environmental Research</th>
<th>Extension Engineering</th>
<th>Industrial &amp; Manufacturing Sys Engg</th>
<th>Kansas Industrial Extension Service</th>
<th>Mechanical and Nuclear Engineering</th>
<th>National Gas Machinery Laboratory</th>
<th>Na'I Institute for Land Mgmt &amp; Training</th>
<th>College Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$11,424</td>
<td>$1,794,855</td>
<td>$0</td>
<td>$2,186,599</td>
<td>$965,107</td>
<td>$1,247,069</td>
<td>$1,519,056</td>
<td>$1,870,154</td>
<td>$908,069</td>
<td>$12,000</td>
<td>$1,384,242</td>
<td>$0</td>
<td>$431,706</td>
<td>$924,189</td>
<td>$2,787,676</td>
<td>$467,783</td>
<td>$27,000</td>
<td>$16,536,928</td>
</tr>
<tr>
<td>2009</td>
<td>$16,599</td>
<td>$1,681,912</td>
<td>$0</td>
<td>$2,846,196</td>
<td>$885,820</td>
<td>$2,149,271</td>
<td>$2,642,966</td>
<td>$961,723</td>
<td>$994,953</td>
<td>$123,404</td>
<td>$988,891</td>
<td>$0</td>
<td>$873,950</td>
<td>$4,434,261</td>
<td>$3,378,903</td>
<td>$208,012</td>
<td>$533,708</td>
<td>$22,720,569</td>
</tr>
<tr>
<td>2010</td>
<td>$23,884</td>
<td>$2,141,383</td>
<td>$0</td>
<td>$2,923,787</td>
<td>$1,222,000</td>
<td>$2,851,943</td>
<td>$2,850,820</td>
<td>$3,328,123</td>
<td>$2,703,700</td>
<td>$67,079</td>
<td>$1,368,029</td>
<td>$0</td>
<td>$431,774</td>
<td>$1,283,777</td>
<td>$1,866,639</td>
<td>$206,012</td>
<td>$0</td>
<td>$25,496,059</td>
</tr>
<tr>
<td>2011</td>
<td>$37,502</td>
<td>$2,550,702</td>
<td>$0</td>
<td>$4,715,020</td>
<td>$2,297,751</td>
<td>$2,767,029</td>
<td>$2,715,943</td>
<td>$2,252,037</td>
<td>$1,835,404</td>
<td>$67,494</td>
<td>$1,080,237</td>
<td>$0</td>
<td>$863,656</td>
<td>$1,359,975</td>
<td>$1,866,639</td>
<td>$125,667</td>
<td>$0</td>
<td>$21,584,116</td>
</tr>
</tbody>
</table>

**HUMAN ECOLOGY**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$318,516</td>
<td>$355,627</td>
<td>$6,119</td>
<td>$336,505</td>
<td>$17,840,655</td>
<td>$0</td>
<td>$3,343,958</td>
<td>$0</td>
<td>$61,035</td>
<td>$0</td>
<td>$394,420</td>
</tr>
<tr>
<td>2009</td>
<td>$355,627</td>
<td>$2,757,068</td>
<td>$40,303</td>
<td>$1,040,636</td>
<td>$16,866,207</td>
<td>$0</td>
<td>$1,293,135</td>
<td>$0</td>
<td>$32,078</td>
<td>$0</td>
<td>$3,500</td>
</tr>
<tr>
<td>2010</td>
<td>$320,913</td>
<td>$74,499</td>
<td>$0</td>
<td>$2,892,480</td>
<td>$14,709,030</td>
<td>$0</td>
<td>$591,157</td>
<td>$0</td>
<td>$3,162,679</td>
<td>$0</td>
<td>$3,500</td>
</tr>
<tr>
<td>2011</td>
<td>$428,501</td>
<td>$28,854</td>
<td>$0</td>
<td>$1,154,168</td>
<td>$11,156,617</td>
<td>$0</td>
<td>$3,421,868</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$18,277</td>
</tr>
</tbody>
</table>

**TECHNOLOGY AND AVIATION**

<table>
<thead>
<tr>
<th>Year</th>
<th>Dean of College of Technology</th>
<th>Academic Services</th>
<th>Salina Applied Aviation Research Center</th>
<th>Salina Arts, Science and Business</th>
<th>Salina Aviation</th>
<th>Engineering Technology</th>
<th>College Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$0</td>
<td>$0</td>
<td>$50,000</td>
<td>$315,900</td>
<td>$8,195</td>
<td>$374,295</td>
<td>$496,901</td>
</tr>
<tr>
<td>2009</td>
<td>$0</td>
<td>$0</td>
<td>$496,321</td>
<td>$8,000</td>
<td>$0</td>
<td>$16,599</td>
<td>$496,901</td>
</tr>
<tr>
<td>2010</td>
<td>$0</td>
<td>$0</td>
<td>$2,965,110</td>
<td>$4,500</td>
<td>$0</td>
<td>$20,288</td>
<td>$14,066</td>
</tr>
<tr>
<td>2011</td>
<td>$0</td>
<td>$0</td>
<td>$20,389</td>
<td>$4,500</td>
<td>$0</td>
<td>$18,566</td>
<td>$8,166</td>
</tr>
</tbody>
</table>
### VETERINARY MEDICINE

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Veterinary Medicine</td>
<td>$2,636,770</td>
<td>$205,880</td>
<td>$142,790</td>
<td>$177,879</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>$5,287,077</td>
<td>$3,322,473</td>
<td>$3,494,658</td>
<td>$3,661,475</td>
</tr>
<tr>
<td>Clinical Sciences</td>
<td>$1,452,056</td>
<td>$1,225,367</td>
<td>$1,640,051</td>
<td>$2,019,718</td>
</tr>
<tr>
<td>Diagnostic Medicine/Pathobiology</td>
<td>$3,358,103</td>
<td>$8,778,701</td>
<td>$10,833,620</td>
<td>$11,253,396</td>
</tr>
<tr>
<td>Veterinary Diagnostic Laboratory</td>
<td>$0</td>
<td>$65,527</td>
<td>$200,517</td>
<td>$465,217</td>
</tr>
<tr>
<td>Veterinary Medical Teaching Hospital</td>
<td>$14,000</td>
<td>$19,900</td>
<td>$19,000</td>
<td>$23,800</td>
</tr>
<tr>
<td>College Totals</td>
<td>$12,748,007</td>
<td>$13,617,848</td>
<td>$16,350,636</td>
<td>$17,601,484</td>
</tr>
</tbody>
</table>

### PRESIDENT

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beach Art Museum</td>
<td>$24,088</td>
<td>$24,997</td>
<td>$14,208</td>
<td>$26,060</td>
</tr>
<tr>
<td>McCain Auditorium</td>
<td>$11,088</td>
<td>$481,045</td>
<td>$347,358</td>
<td>$430,286</td>
</tr>
<tr>
<td>Office of the President</td>
<td>$2,000,000</td>
<td>$0</td>
<td>$2,100,000</td>
<td>$0</td>
</tr>
<tr>
<td>Totals</td>
<td>$2,035,176</td>
<td>$506,042</td>
<td>$2,461,566</td>
<td>$457,146</td>
</tr>
</tbody>
</table>

### V.P. ADMINISTRATION AND FINANCE

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of the Provost</td>
<td>$701,632</td>
<td>$0</td>
<td>$3,186,621</td>
<td>$53,051</td>
</tr>
<tr>
<td>Assessment &amp; Program Review</td>
<td>$0</td>
<td>$88,604</td>
<td>$0</td>
<td>$39,078</td>
</tr>
<tr>
<td>Center for Engagement, Community Development</td>
<td>$126,223</td>
<td>$168,935</td>
<td>$168,385</td>
<td>$3,186,621</td>
</tr>
<tr>
<td>Dean of Continuing Education</td>
<td>$0</td>
<td>$33,995</td>
<td>$225,000</td>
<td>$75,000</td>
</tr>
<tr>
<td>Dean of the Graduate School</td>
<td>$0</td>
<td>$42,000</td>
<td>$58,152</td>
<td>$295,157</td>
</tr>
<tr>
<td>International Programs</td>
<td>$39,873</td>
<td>$247,954</td>
<td>$93,415</td>
<td>$180,314</td>
</tr>
<tr>
<td>Kansas Center for Rural Initiatives</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Library</td>
<td>$35,000</td>
<td>$10,500</td>
<td>$46,479</td>
<td>$14,589</td>
</tr>
<tr>
<td>Office of Diversity and Dual Career Dev.</td>
<td>$0</td>
<td>$31,714</td>
<td>$34,022</td>
<td>$35,002</td>
</tr>
<tr>
<td>Planning and Analysis</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Regents Educational Communications Ctr.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>School of Leadership Studies</td>
<td>$0</td>
<td>$92,645</td>
<td>$149,637</td>
<td>$180,314</td>
</tr>
<tr>
<td>Vice President for Communications and Marketing</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Totals</td>
<td>$902,728</td>
<td>$653,662</td>
<td>$833,100</td>
<td>$4,236,546</td>
</tr>
</tbody>
</table>

### V.P. INSTITUTIONAL ADVANCEMENT

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Housing</td>
<td>$125,522</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Educational &amp; Personal Development</td>
<td>$2,331,199</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>KSU Child Development Center</td>
<td>$281,521</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Office of Diversity &amp; Dual Career Dev.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>University Counseling Services</td>
<td>$152,933</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Vice President for Institutional Advancement</td>
<td>$221,253</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Totals</td>
<td>$3,112,428</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

### V. P. ACADEMIC SERVICES & TECHNOLOGY

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President for Academic Serv. &amp; Tech.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Dean of Continuing Education</td>
<td>$26,702</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Regents Educational Communications Ctr.</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Regents TeleNet</td>
<td>$25,214</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Totals</td>
<td>$51,916</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

### VICE PRESIDENT FOR RESEARCH

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President for Research</td>
<td>$1,799,737</td>
<td>$1,647,610</td>
<td>$671,189</td>
<td>$0</td>
</tr>
<tr>
<td>Vice President for Res. &amp; Dean Grad of Sch.</td>
<td>$40,500</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Biosecurity Research Institute</td>
<td>$0</td>
<td>$1,000</td>
<td>$0</td>
<td>$340,842</td>
</tr>
<tr>
<td>K-State Olathe Innovation Campus</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>National Agricultural Biosecurity Center</td>
<td>$4,065,000</td>
<td>$14,652,588</td>
<td>$2,160,791</td>
<td>$6,028,149</td>
</tr>
<tr>
<td>Biotechnology Laboratory</td>
<td>$82,618</td>
<td>$70,948</td>
<td>$52,037</td>
<td>$50,005</td>
</tr>
<tr>
<td>Electronics Design Lab</td>
<td>$218,212</td>
<td>$199,139</td>
<td>$165,865</td>
<td>$233,893</td>
</tr>
<tr>
<td>Totals</td>
<td>$6,206,066</td>
<td>$16,571,285</td>
<td>$2,445,862</td>
<td>$6,652,888</td>
</tr>
<tr>
<td>Department</td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------</td>
<td>------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>V.P. FOR STUDENT LIFE AND DEAN OF STUDENTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office of Vice President for Student Life</td>
<td>$0</td>
<td>$0</td>
<td>$84,240</td>
<td>$69,957</td>
</tr>
<tr>
<td>Department of Housing</td>
<td>$0</td>
<td>$200,522</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Educational &amp; Personal Development</td>
<td>$0</td>
<td>$1,123,191</td>
<td>$2,542,353</td>
<td>$1,635,762</td>
</tr>
<tr>
<td>KSU Child Development Center</td>
<td>$0</td>
<td>$372,118</td>
<td>$66,165</td>
<td>$129,420</td>
</tr>
<tr>
<td>Office of Diversity &amp; Dual Career Dev.</td>
<td>$0</td>
<td>$34,238</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>University Counseling Services</td>
<td>$0</td>
<td>$100,463</td>
<td>$37,400</td>
<td>$37,000</td>
</tr>
<tr>
<td>Totals</td>
<td>$0</td>
<td>$1,830,531</td>
<td>$2,750,158</td>
<td>$1,872,139</td>
</tr>
<tr>
<td>UNIVERSITY TOTALS</td>
<td>$117,957,312</td>
<td>$133,650,574</td>
<td>$147,695,867</td>
<td>$124,626,067</td>
</tr>
</tbody>
</table>