# **RESEARCH** *— Kansas State University*

# 2012



Office of Research and Sponsored Programs



Vice President for Research Office

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: <u>http://www.k-state.edu/research/awards/</u>. If you have any questions regarding the contents of the attached report, you can contact Paul Lowe at <u>plowe@ksu.edu</u> or Cecilia Scaler at <u>cscaler@ksu.edu</u> 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,

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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.

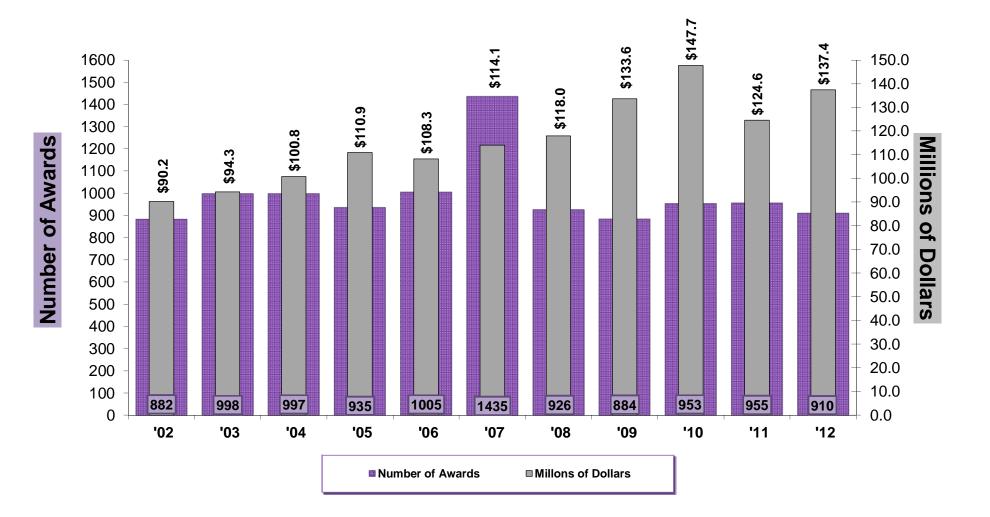
## FY12 ANNUAL REPORT RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE KANSAS STATE UNIVERSITY

The research funding base at Kansas State University consists of funds appropriated from federal and state sources, gifts from alumni and friends, and awards of extramural funds from federal and state agencies, foundations, and various private and industrial organizations, mainly through the competitive grants process.

I. Sponsored		\$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	<u>\$ 32,124</u>	
SUBTOTAL		\$ 66,057,690
III. Donated**		<u>\$ 35,023,168</u>
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



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

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

#### **Sources of Awards**

Sources	Number	Dollar Value
Area/Local Government	6	\$ 53,458
Department of Agriculture	172	\$ 41,798,726
Department of Defense	42	\$ 7,151,247
Department of Education	24	\$ 6,122,261
Department of Energy	28	\$ 8,217,441
Department of Health and Human Services	62	\$ 12,641,788
Environmental Protection Agency	31	\$ 2,384,883
Foundations	191	\$ 9,305,328
Industry	105	\$ 7,340,363
National Science Foundation	93	\$ 14,869,598
National Aeronautics and Space Administration	11	\$ 666,743
Other Federal	97	\$ 12,436,106
State of Kansas	48	\$ 14,457,454
TOTAL	910	\$ 137,445,396

# FISCAL YEAR 2012 EXTRAMURAL AWARDS

(July 1, 2011 – June 30, 2012)

# **COLLEGE OF AGRICULTURE**

#### AGRICULTURAL ECONOMICS

Amanor-Boadu, Vincent R., Dalton, Timothy J., and Featherstone, Allen M., US Agency for International Development, \$175,934, "Pulse Value Chain Initiative- Zambia (PVCI-Z)."

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., Amanor-Boadu, Vincent R.**, and **Featherstone, Allen M.**, US Agency for International Development, "Pulse Value Chain Initiative-Zambia (PVCIZ)."

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

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

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

**Dhuyvetter, Kevin C., Llewelyn, Richard V.**, and **Tonsor, Glynn**, US Department of Agriculture, \$64,067, "Crop Price Forecasts: Increasing Awareness of Freely Available and Valuable Resources for Risk Management Decisions by Crop and Livestock Producers."

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

**Dhuyvetter, Kevin C.,** and **Llewelyn, Richard V.**, US Department of Agriculture, \$46,331, "Providing Access to Risk Management Tools through Excel Training."

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

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

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

Golden, Bill B., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Devlin, Daniel L. (Ks Ctr for Ag 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."

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

Langemeier, Michael R., Golden, Bill B., O'Brien, Daniel M. (Northwest Area Office), Roozeboom, Kraig L. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), Taylor, Mykel R., and Thompson, Curtis R. (Agronomy), Kansas Corn Commission, "A Study of the Efficiency of Corn and Sorghum Production in Kansas." 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 AgriculturalEngineering),
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., Dhuyvetter, Kevin C., and Tonsor, Glynn, US Department of Agriculture, "Crop Price Forecasts: Increasing Awareness of Freely Available and Valuable Resources for Risk Management Decisions by Crop and Livestock Producers."

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

Llewelyn, Richard V., and Dhuyvetter, Kevin C., US Department of Agriculture, "Providing Access to Risk Management Tools through Excel Training."

**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."

Schroeder, Ted C., and Sanderson, Michael W. (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, \$47,776, "Sustainability of the Beef Production System in the Face of an FMD Outbreak."

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 Soybean Commission, \$13,500, "Development of Improved Systems for Machinery Data Management and Analysis Data Delivery for Kansas Farmers."

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

**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."

**Taylor, Mykel R.,** US Department of Agriculture, \$15,000, "The Power of Knowledge: Reducing Informational Barriers and Identifying Value-Added marketing Opportunities for Montana, Idaho and Washington Wheat Producers."

**Tonsor, Glynn,** and **Thomson, Daniel U.** (Clinical Sciences), US Department of Agriculture, \$498,261, "Beef and Dairy Cattle Animal Welfare: Market Opportunities and Threats."

**Tonsor, Glynn, Dhuyvetter, Kevin C.**, and **Llewelyn, Richard V.**, US Department of Agriculture, "Crop Price Forecasts: Increasing Awareness of Freely Available and Valuable Resources for Risk Management Decisions by Crop and Livestock Producers."

**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

**Minton, J. Ernest,** and **Leslie, John F.** (Plant Pathology), US Department of Agriculture, "Acquisition of Good and Services 58-5430-1-939."

**Minton, J. Ernest,** and **Stamm, Michael J.** (Agronomy), US Department of Agriculture, \$165,000, "Development and Management of Canola in the Great Plains Region."

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

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

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

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

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

**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 Glyphosateresistant 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 **OBrien, 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."

**Stahlman, Phillip W.,** and **Dille, Johanna A.** (Agronomy), US Department of Agriculture, \$60,000, "Agronomic Practices and Genetic Mechanisms Leading to Evolution and Spread of Glyphosate Resistance in Kochia."

#### AGRONOMY

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

**Blocksome, Carolyn E., Devlin, Daniel L.** (Ks Ctr for Ag 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 **Stahlman, Phillip W.** (Agricultural Research Center- Hays), US Department of Agriculture, \$140,000, "Agronomic Practices and Genetic Mechanisms Leading to Evolution and Spread of Glyphosate Resistance in Kochia."

**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."

**Fick, Walter H.,** and **Presley, DeAnn R.**, US Department of Defense, \$40,500, "Evaluation of Effects of Late Summer/Fall Burning on Soils and Vegetation at Fort Riley Military Installation, Kansas."

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

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

**Fritz, Allan K., Poland, Jesse A.**, and **Zhang, Guorong**, Kansas Wheat Alliance, "Development of a Genomic Selection Training Population for KSU Wheat Germplasm." **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 **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$235,000, "Improvement of Hard Winter Wheat for Kansas."

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

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

**Fritz, Allan K.,** 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."

**Fu, Jianming,** and **Pagadala, P. V. Vara**, Kansas Wheat Commission, "Assessment of Heat Tolerance in Genetically Engineered Wheat."

Heer, William F., Holman, Johnathon D. (Southwest Research Extension Center), Roozeboom, Kraig 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.**, logen Energy Corporation, "Evaluation of Fertilizer Equivalent Value of Cellulosic Ethanol Waste Stream at Field Conditions."

**Hettiarachchi, Ganga M., Mengel, David B.**, and **Ruiz Diaz Suarez, Dorivar A.**, logen Energy Corporation, \$46,725, "Greenhouse and Laboratory Evaluations on use of logen Celulosic 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."

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

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."

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

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

**Mengel, David B., Hettiarachchi, Ganga M.**, and **Ruiz Diaz Suarez, Dorivar A.**, logen Energy Corporation, "Evaluation of Fertilizer Equivalent Value of Cellulosic Ethanol Waste Stream at Field Conditions."

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

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

**Mengel, David B.,** and **Ruiz Diaz Suarez, Dorivar A.**, Kansas Soybean Commission, \$23,431, "Phosphorus, Secondary and Micronutrient Fertilization of Soybeans in Kansas."

**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 Fertilzer Management."

Nelson, Nathan O., Adee, Eric, Maddux, Larry D., Marsh, Brian H., and Pierzynski, Gary M., Multi-Sponsor, \$44,700, "Soil Fertility and Soil Management Investigations."

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."

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**Pagadala, P. V. Vara, Shroyer, James P.**, and **Staggenborg, Scott A.**, Kansas Wheat Commission, "Applied Wheat Research to Improve Cropping Efficiency."

**Pagadala, P. V. Vara,** and **Fu, Jianming**, Kansas Wheat Commission, \$28,000, "Assessment of Heat Tolerance in Genetically Engineered Wheat."

**Pagadala, P. V. Vara,** and **Staggenborg, Scott A.**, US Agency for International Development, \$264,516, "Decrue Sorghum Research in Mali."

**Pagadala, P. V. Vara,** and **Staggenborg, Scott A.**, US Agency for International Development, \$72,350, "Transfer of Sorghum and Millet Production, Processing and Marketing Technologies in Mali - Training Component."

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

**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."

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

**Poland, Jesse A.,** Bill and Melinda Gates Foundation, \$112,200, "Applying Genotypingby-Sequencing to Enable Genomic Selection in Wheat."

**Poland, Jesse A., Fritz, Allan K.**, and **Zhang, Guorong**, Kansas Wheat Alliance, \$85,700, "Development of a Genomic Selection Training Population for KSU Wheat Germplasm."

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

**Presley, DeAnn R.,** and **Fick, Walter H.**, US Department of Defense, "Evaluation of Effects of Late Summer/Fall Burning on Soils and Vegetation at Fort Riley Military Installation, Kansas."

**Price, Kevin,** US Department of the Interior, \$18,000, "Using Multitemporal High Spatial Resolution Multispectral Imagery for Mapping and Monitoring Vegetation of the Tallgrass Prairie National Preserve, Kansas."

**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."

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**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.,** US Department of Education, \$143,018, "Providing Education in Face of Climate Change, Food and Energy Scarcity."

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

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**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."

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**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.**, logen Energy Corporation, \$59,804, "Evaluation of Fertilizer Equivalent Value of Cellulosic Ethanol Waste Stream at Field Conditions."

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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."

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**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."

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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."

Shroyer, James P., Pagadala, P. V. Vara, and Staggenborg, Scott A., Kansas Wheat Commission, \$24,941, "Applied Wheat Research to Improve Cropping Efficiency."

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

**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."

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**Staggenborg, Scott A.,** and **Pagadala, P. V. Vara**, US Agency for International Development, "Decrue Sorghum Research in Mali."

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**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 PlainsRegion."

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**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."

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**Mykel R.** (Agricultural Economics), Kansas Corn Commission, \$14,213, "A Study of the Efficiency of Corn and Sorghum Production in Kansas."

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**Thompson, Curtis R., Janssen, Keith A.**, and **Shoup, Douglas E.**, Multi-Sponsor, \$466,104, "Field Herbicidal Evaluations."

**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."

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**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."

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**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."

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**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."

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**Drouillard, James S., Gonzalez, John M.**, and **Sexten, Andrea K.**, Alltech, Inc., \$15,929, "Alternative Feeding Strategies to Enhance Feedlot Performance and Carcass Characteristics of Finishing Cattle."

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

**Drouillard, James S.,** Kent Nutrition Group, \$39,960, "Fixed Price Agreement: Effect of the 28 Day Preharvest Feeding of BoVantage/Optaflexx Combination on the Performance, Health and Carcass Merit of Finishing Beef Heifers."

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

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**Lee, Charles D.,** Kansas Department of Wildlife and Parks, \$44,200, "ExtensionEducation 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."

**Lee, Charles D.,** US Department of the Interior, \$13,000, "Prairie Dog Population and Habitat Monitoring in Support of Reintroduction of Black-footed Ferret in Kansas."

**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."

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**Nutsch, Abbey L.,** and **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), US Department of Homeland Security, "Enhancing HS-STEM Education: Frontier's Food Defense and Border Security Career Development Program."

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.,** Kansas Beef Council, \$353,400, "Support of Regents Distinguished Professorship in Animal Sciences."

**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., Drouillard, James S.**, and **Gonzalez, John M.**, Alltech, Inc., "Alternative Feeding Strategies to Enhance Feedlot Performance and Carcass Characteristics of Finishing Cattle."

**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 toResynchronize Ovulation in Lactating Dair 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 Vitamine 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."

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**Unruh, John A., Gonzalez, John M.**, and **Houser, Terry A.**, National Cattlemen's Beef Association, "Color and Flavor Stability of Beef Gluteus Medius as Influenced by Postmortem Aging Time and Blade Tenderization."

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#### COMMUNICATIONS

**Boone, Kristina M.,** and **Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$49,639, "Kansas Environmental Leadership Program (KELP) SFY12."

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**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."

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

#### **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), McCornack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L., Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips, Thomas W., Schapaugh Jr, William T. (Agronomy), Smith, C.Michael, Smith, Jennifer A. (County Agents - Metropolitan Sector), 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."

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

**Margolies, David C.,** US Department of Agriculture, \$116,000, "Molecular Mechanisms of Wheat Resistance to the Hessian Fly."

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

**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."

**Nechols, James R.,** US Department of Agriculture, \$16,411, "Strenghtening Fruit Pest Predictive Models by Incorporating Effects of Weather on Reproductive Behavior."

**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."

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

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

**Reese, John C.,** and **McCornack, Brian P.**, North Central Soybean Research Program, \$46,207, "Soybean Aphid Management, Biocontrol and Host Plant Resistance."

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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."

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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

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

**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."

**Dogan, Hulya,** and **Faubion, Jon M.**, US Department of Agriculture, \$56,709, "Study of the Interactions of Bran with Gluten Proteins During Dough Development Using Rheology, Infrared Spectroscopy and Tomography."

**Faubion, Jon M.,** and **Dogan, Hulya**, US Department of Agriculture, "Study of the Interactions of Bran with Gluten Proteins During Dough Development Using Rheology, Infrared Spectroscopy and Tomography."

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

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

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

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

**Fowler, Mark, Maier, Dirk E., McKinney, Leland**, and **O'Neil III, Howard J.**, US Department of Agriculture, "CHR-AU-China Team Organizing Company-US Feed Tech and FFSBM Processing Teams (ASA-IM Dairy Feed Mfg Workshop) Service Agreement."

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., Fowler, Mark**, **McKinney, Leland**, and **O'Neil III, Howard J.**, US Department of Agriculture, \$20,000, "CHR-AU-China Team Organizing Company-US Feed Tech and FFSBM Processing Teams (ASA-IM Dairy Feed Mfg Workshop) Service Agreement."

**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.,** and **McKinney, Leland**, US Department of Health and Human Services, "Personnel Training for Food Safety in Bulk Grain Based Product Processing and Handling."

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

**Maier, Dirk E.,** US Soybean Export Council, Inc., \$38,180, "Service Agreement - AM-AQ RAPCO Speakers & AM-AQ RAPCO Participants."

**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."

**McKinney, Leland, Fowler, Mark**, **Maier, Dirk E.**, and **O'Neil III, Howard J.**, US Department of Agriculture, "CHR-AU-China Team Organizing Company-US Feed Tech and FFSBM Processing Teams (ASA-IM Dairy Feed Mfg Workshop) Service Agreement."

**McKinney, Leland,** and **Maier, Dirk E.**, US Department of Health and Human Services, \$196,982, "Personnel Training for Food Safety in Bulk Grain Based Product Processing and Handling."

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

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**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."

Vadlani, Praveen V., US Department of Energy, \$67,863, "Plant-Based Sesquiterpene Biofuels."

## 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.,** US Department of Agriculture, \$43,902, "Development of Alternative Substrates for Container Nursery Crops."

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

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

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

**Janke, Rhonda R.,** US Department of Agriculture, \$10,000, "Estimation of Soil N Availability for Tomato Production in High Tunnel vs. Open Field under Organic and Conventional Management - May Altamimi."

**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), McCornack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L. (Entomology), Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips, Thomas W. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

**Williams, Kimberly A.,** and **Miller, Chad T.**, American Floral Endowment, \$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 Rsrces & the Env / Ks Water Rsrce Rsrch Inst), Langemeier, Michael R., and Shroyer,

**James P.** (Agronomy), US Department of Agriculture, "USDA Scientific Exchange Scholar Program: Russian Black Carbon Scholars."

#### KANSAS CENTER FOR AG RESOURCES AND THE ENVIRONMENT / KANSAS WATER RESOURCE RESREARCH 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.,** 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., Blocksome, Carolyn E.** (Agronomy), **Langemeier, Michael R.**, **Lilja, Nina** (International Agricultural Programs), and **Shroyer, James P.** (Agronomy), US Department of Agriculture, \$65,569, "USDA Scientific Exchange Scholar Program: Russian Black Carbon Scholars."

Devlin, Daniel L., Aiken, Robert M. (Northwest Research Extension Center), Blanco, Humberto (Agricultural Research Center-Hays), Dumler, Troy (Southwest Area Office), Golden, Bill B. (Agricultural Economics), Holman, Johnathon D. (Southwest Research Extension Center), Klocke, Norman L. (Southwest Research Extension Center), Lamm, Freddie R. (Northwest Research Extension Center), Pagadala, P. V. Vara (Agronomy), Rogers, Danny H. (Biological and Agricultural Engineering), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Steward, David R. (Civil Engineering), US Department of Agriculture, \$126,894, "Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region - KSU."

**Devlin, Daniel L.,** US Department of the Interior, \$355,946 (includes \$178,610 from in kind support), "Aquifer Storage and Recovery in Near-Surface Aquifers: Development of a New Recharge Approach using Small-Diameter, Low-Cost Wells."

**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, \$31,590, "Clean Watershed Needs Survey 2012."

**Devlin, Daniel L.,** and **Blocksome, Carolyn E.** (Agronomy), US Environmental Protection Agency, \$15,000, "Kansas Flint Hills Smoke Management Plan."

**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.,** US Environmental Protection Agency, \$10,567, "Lower Smoky Hill River Watershed (Upper Portion) WRAPS Implementation."

**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."

**Harner III, Joseph P.,** and **Kahl, Daniel W.** (Agriculture and Natural Resources), US Environmental Protection Agency, \$1,181, "Kansas Environmental Leadership Program (KELP) 2010."

**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."

**Leatherman, John C.,** US Environmental Protection Agency, \$15,497 (includes \$3,746 from Outside Cooperators), "Upper Neosho Implementation FY 2012."

## NORTHWEST RESEARCH EXTENSION CENTER

**Aiken, Robert M.,** and **Perumal, Ramasamy** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, \$7,085, "Evaluating Advanced Breeding Lines and New Sources for Cold Tolerance in Sorghum."

**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 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., 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 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), 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

Akhunova, Alina, Akhunov, Eduard D. (Plant Pathology), Friebe, Bernd (Plant Pathology), and Gill, Bikram S. (Plant Pathology), Kansas Wheat Commission, "Using Next-Generation Sequencing for Developing Molecular Markers for Mapping Wheat-alien Introgressions."

## PLANT PATHOLOGY

Akhunov, Eduard D., Akhunova, Alina (Plant Biotechnology Center), Friebe, Bernd, and Gill, Bikram S., Kansas Wheat Commission, \$40,000, "Using Next- Generation Sequencing for Developing Molecular Markers for Mapping Wheat-alien Introgressions."

**Akhunov, Eduard D.,** US Department of Agriculture, \$499,684, "Functional Genomics of Stem Rust - Wheat Pathosystems."

**Akhunov, Eduard D.,** and **Pagadala, P. V. Vara** (Agronomy), US Department of Agriculture, \$196,998, "Improving Barley and Wheat Germplasm for Changing Environments."

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

**Bockus, William W.,** 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."

**Bockus, William W.,** US Department of Agriculture, \$67,823, "Development of Scab Resistant Wheat Cultivars for Kansas."

**DeWolf, Erick D.,** and **Bockus, William W.**, Kansas Wheat Commission, \$28,000, "Development of New Tools for Wheat Disease Management in Kansas: Decision Models for Fungicide Applications."

DeWolf, Erick D., Multi-Sponsor, \$7,000, "Winter Wheat Seed Treatment Tests."

**DeWolf, Erick D.,** US Department of Agriculture, \$38,034, "Development and Deployment of Prediction Models for Fusarium Head Blight."

DeWolf, Erick D., Boyer, Cheryl R. (Horticulture, Forestry and Recreation Resources),
Buschman, Larry L. (Entomology), Cloyd, Raymond A. (Entomology), Dickman,
Holly (County Agents-Northwest Sector), Kennelly, Megan, McCornack, Brian P.,
McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L.
(Entomology), Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips,

Thomas W. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S. (Horticulture, Forestry and Recreation Resources), and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

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

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

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

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

**Friebe, Bernd, Akhunov, Eduard D., Akhunova, Alina** (Plant Biotechnology Center), and **Gill, Bikram S.**, Kansas Wheat Commission, "Using Next-GenerationSequencing for Developing Molecular Markers for Mapping Wheat-alien Introgressions."

**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., Akhunov, Eduard D., Akhunova, Alina** (Plant Biotechnology Center), and **Friebe, Bernd**, Kansas Wheat Commission, "Using Next-Generation Sequencing for Developing Molecular Markers for Mapping Wheat-alien Introgressions."

**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."

**Jardine, Douglas J.,** US Department of Agriculture, \$15,278, "Integrated Management of Oomycete Diseases of Soybean and other Crop Plants."

**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), McCornack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L. (Entomology), Moyer, Joseph L. (Southeast Agricultural Research Center), Phillips, Thomas W. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), Upham, Ward S. (Horticulture, Forestry and Recreation Resources), and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, "Extension IPM Coordination Program for Kansas."

Kennelly, Megan, 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.

(Kansas Forest Service), US Department of Agriculture, \$40,757, "Professional Development Training for Sustainable Agroforestry in Kansas."

**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."

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

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

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

**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 CultivarEvaluation 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 GeneticEngineering."

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)."

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

**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.,** United Soybean Board, \$87,456, "Center for Soybean Tissue Culture and Genetic Engineering: Engineering Soybean for Effective Resistance to Soybean Cyst Nematode."

**Trick, Harold N., Li, Jiarui**, and **Todd, Timothy C.**, United Soybean Board, \$69,520, "Specific and Efficient Suppression of Soybean Cyst Nematode in Soybean using Artifical Micro RNA Strategy."

**Trick, Harold N.,** US Department of Agriculture, \$13,498, "Engineering Fusarium Head Blight Resistance and Plant Defense Signaling."

**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

**Kusel, Kelly R., Schapaugh Jr, William T.** (Agronomy), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$29,006, "Trait and Production Efficiency Enhancement in Soybean."

**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), McCornack, Brian P., McMahon, Rebecca L. (County Agents - Metropolitan Sector), Miller, Frannie L. (Entomology), Phillips, Thomas W. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), Smith, Jennifer A. (County Agents - Metropolitan Sector), **Upham, Ward S.** (Horticulture, Forestry and Recreation Resources), and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, \$9,360, "Extension IPM Coordination Program for Kansas."

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

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

**Holman, Johnathon D.,** and **Mengel, David B.** (Agronomy), The United Sorghum Checkoff Program Board, \$20,000, "Enhancing Sorghum Nitrogen Use Efficiency through Fertilzer 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., Golden, Bill B. (Agricultural Economics), Langemeier, Michael R. (Agricultural Economics), O'Brien, Daniel M. (Northwest Area Office), Roozeboom, Kraig L. (Agronomy), Taylor, Mykel R. (Agricultural Economics), and Thompson, Curtis R. (Agronomy), Kansas Corn Commission, "A Study of the Efficiency of Corn and Sorghum Production in Kansas."

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.,** Syngenta Seeds, Inc., \$217,830, "Research Testing Project -Influence of Agrisure Artesian <sup>™</sup> Water-optimization Alleles on Hybrid Performance and Response to Plant Density and Water Regime."

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

# COLLEGE OF 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

Bernard, Eric A., Brokesh, Lonna D., Kingery-Page, Katie E., and Taussig, Mark A. (Facility Planning), Sunflower Foundation, "Marlatt Park Trails."

Brokesh, Lonna D., Bernard, Eric A., Kingery-Page, Katie E., and Taussig, Mark A. (Facility Planning), Sunflower Foundation, "Marlatt Park Trails."

**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 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), 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 aboutEphemeral Gully Sediment and Nutrient Sources and BMPs."

**Kingery-Page, Katie E., Bernard, Eric A.**, **Brokesh, Lonna D.**, and **Taussig, Mark A.** (Facility Planning), Sunflower Foundation, \$1,670, "Marlatt Park Trails."

## **COLLEGE OF ARTS AND SCIENCES**

#### BIOCHEMISTRY

Arakane, Yasuyuki, Beeman, Richard W. (Entomology), Kramer, Karl J., 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."

**Chen, Jianhan,** National Science Foundation, \$138,951, "CAREER: Implicit Modeling of Non-polar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins."

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

**Davis, Lawrence C., 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, \$347,800, "Proteinase Systems in Insect Hemolymph."

**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."

**Muthukrishnan, Subbarat, Arakane, Yasuyuki**, **Beeman, Richard W.** (Entomology), and **Kramer, Karl J.**, National Science Foundation, \$4,500, "Collaborative Research: Functional Analysis of Proteins Involved in the Dynamic Assembly of Chitin/Chitosan Laminae in the Insect Exoskeleton."

**Reeck, Gerald R.,** US Department of Health and Human Services, \$55,898, "Armet Ligands in Anti-Cancer Drug Development."

**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."

Blecha, Kevin A., Conard, Jonathan M., and Haukos, David A., US Department of the Interior, "Chronic Wasting Disease - Whitetail Deer - Kansas."

**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., Denell, Robin E.**, and **Shippy, Teresa D.**, US Department of Health and Human Services, \$260,068, "Genetic Control of Segmentation."

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

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

**Conard, Jonathan M., Blecha, Kevin A.**, and **Haukos, David A.**, USDepartment of the Interior, "Chronic Wasting Disease - Whitetail Deer - Kansas."

**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."

**Cully, Jr., Jack F.,** US Department of the Interior, \$89,760, "Patterns and Processes of Dispersal of Black-Tailed Prairie Dogs in a Heavily Managed Landscape of the Great Plains Landscape Conservation Cooperative."

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

**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 theInterior, \$124,473, "Reproductive Life History of Great Plains Pelagic-Spawning Fishes in the Ninnescah River, Kansas."

**Gido, Keith B.,** US Department of the Interior, \$43,657, "Stream Fish Assemblages Monitoring Data and Decision-Support Model for Enhanced Critical Conservation Decision-Making in New Mexico."

**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."

Haukos, David A., Blecha, Kevin A., and Conard, Jonathan M., USDepartment of the Interior, \$5,100, "Chronic Wasting Disease - Whitetail Deer - Kansas."

**Haukos, David A.,** US Department of the Interior, \$75,472, "Estimating Inundation Frequency of Playa Wetlands Using 1970s LandSAT MSS Data: Did Irrigation PracticesArtificially Increase Frequency and Longevity of Landscape Wetness?."

**Haukos, David A.,** US Department of the Interior, \$133,821, "Risk Assessment of Exposure to Lead for Mottled Ducks on National Wildlife Refuges of the Texas Gulf Coast."

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

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

**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."

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

Johnson, Loretta C., Herman, Michael A., Joern, Anthony, and Sandercock, Brett K., US Department of Education, \$263,850, "Training in Integrative Biology: Ecology, Evolution and Genomics in Changing Environments."

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."

**Jumpponen, Ari M.,** and **Rice, Charles W.** (Agronomy), US Department of Energy, \$424,589, "Meta-"Omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils."

**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, \$333,926, "Assessing Distribution and Movement of Blue Catfish in Kansas Reservoirs."

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

**McNew, Lance B.,** and **Sandercock, Brett K.**, US Department of the Interior, \$165,004, "Effects of the Conservation Reserve Program (CRP) State Acres for Wildlife Enhancement (SAFE) Program on Bird Populations in Kansas."

**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."

**Morgan, Theodore J.,** and **Snyder, Bruce**, National Science Foundation, "REU Site: Undergraduate Research in the Ecology and Evolution of Changing Environments: Mechanisms to Responses."

**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."

**Passarelli, A. Lorena,** and **Clem, Rollie J.**, US Department of Health and Human Services, \$669,799, "Arbovirus Midgut Escape Mechanisms."

**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)."

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

**Sandercock, Brett K.,** and **McNew, Lance B.**, US Department of the Interior, "Effects of the Conservation Reserve Program (CRP) State Acres for Wildlife Enhancement (SAFE) Program on Bird Populations in Kansas."

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

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

**Snyder, Bruce,** and **Morgan, Theodore J.**, National Science Foundation, \$287,662, "REU Site: Undergraduate Research in the Ecology and Evolution of Changing Environments: Mechanisms to Responses."

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

**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."

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

**Hua, Duy H.,** Alzheimer's Drug Discovery Foundation & Institute for the Study o, \$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), USDepartment of Health and Human Services, \$51,066, "The Molecular Target of Gap Junction Enhancers."

**Ito, Takashi,** and **Higgins, Daniel A.**, US Department of Energy, \$27,306, "SISGR: Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores."

**Jankowiak, Ryszard J.,** US Department of Energy, \$320,000, "Resonant and Nonresonant 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 Rsrces & the Env / Ks Water Rsrce Rsrch Inst), and **Nelson, Nathan O.** (Agronomy), US Department of the Interior, "FY 2011 Kansas Water Resources Research Institute."

**Daniels, Melinda,** 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.**, and **Scoglio, Caterina M.** (Civil Engineering), US Department of Agriculture, \$4,000, "Landscape Connectivity Pest Spread Model - Development and Support."

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 Millenia: 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)."

## <u>GEOLOGY</u>

**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, \$84,249, "CO2 Western Annex: Modeling CO2 Sequestration in Saline Aquifer and Depleted Reservoir to Elevate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas."

**Datta, Saugata,** and **Raef, Abdelmoneam**, US Department of Energy, \$104,041, "Modeling CO2 Sequestration in Saline Aquifer and Depleted Oil Reservoir to Evaluate Regional CO2 Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas."

**Datta, Saugata,** US Department of Energy, \$10,000, "Prototyping and Testing a New Volumetric Curvature Tool for Modeling Reservoir Compartments and Leakage Pathways in the Arbuckle Saline Aquifer: Reducing Uncertainty in CO2 Storage and Permanence."

**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."

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

#### <u>HISTORY</u>

**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."

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

**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**

Albin, Nathan, US Air Force, \$30,000, "MIMO Radar Clutter Modeling."

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."

**Ben-Itzhak, Itzhak,** US Department of Energy, \$2,500,000, "Structure and Dynamics of Atoms. Ions, Molecules, and Surfaces."

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."

Bolton, Timothy A., Sidwell, Ronald A., Stanton, Noel R., and Von Toerne, Eckhard, National Science Foundation, \$23,847, "Quarknet."

Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Maravin, Yurii, Ratra, Bharat, and Stanton, Noel R., US Department of Energy, \$720,000, "Heavy Quark and Neutrino Physics."

**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 Air Force, \$374,998, "Direct Spectroscopy in Hollow Optical Fiber with Fiber-based Optical Frequency Combs."

**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.,** Simons Foundation, \$124,312, "Sabbatical 2012-2013: Ultracold and Ultrafast Physics."

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

**Esry, Brett D.,** US Department of Defense, \$78,528, "Ultracold Polar Molecules: New Phases of Matter for Quantum Information and Quantum Control."

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

**Ivanov, Andrew G.,** US Department of Energy, \$55,000, "Exploiting Third Generation Quarks for New Physics Discoveries at the Energy Frontier."

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

Kling, Matthias, US Department of Energy, \$150,000, "Electron Dynamics in Nanostructures in Strong Laser Fields."

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

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

Ratra, Bharat, Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Maravin, Yurii, and Stanton, Noel R., US Department of Energy, "Heavy Quark and Neutrino Physics." **Rebello, Nobel S.,** 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.,** and **Loschky, Lester C.** (Psychology), National Science Foundation, \$399,985, "FIRE: Exploring Visual Cueing to Facilitate Problem Solving inPhysics."

**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."

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

**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"."

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

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

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

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

**Washburn, Brian R.,** and **Corwin, Kristan L.**, US Air Force, "Direct Spectroscopy in Hollow Optical Fiber with Fiber-based Optical Frequency Combs."

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

**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."

**Kirkpatrick, Kimberly,** US Department of Health and Human Services, \$256,410, "Timing, Reward Processing and Choice."

**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 Iowincome 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

**Goe, W. Richard,** US Department of Agriculture, \$4,944, "Poverty and Economic Distress in the North Central Region: Assessing Trends and Determinants 2000-2010."

**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."

**Roper, Donna C.,** US Department of the Interior, \$26,255, "Testing Archaeological Sites 25FT56/130, 25FT353, 25FT354, & 25FT355, Hugh Butler Lake, Nebraska; Excavating Archaeological Sites 25FT56 & 25FT354."

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

## **STATISTICS**

**Bello, Nora M.,** US Department of Health and Human Services, \$7,400, "Evaluating Human Processing of Front of Pack Nutritional Labels."

**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**

**Ehie, Ike C.,** and **Gordon, Myra E.** (Office of Diversity and Dual CareerDevelopment), British American Tobacco Plc., \$35,002, "Advancing Economic Development through Strengthening the MBA Programs in Nigeria."

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, \$941,790, "DESTINY 2."

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

Herrera, Socorro G., US Department of Education, \$295,697, "Project MERIT."

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

Herrera, Socorro G., US Department of Education, \$233,909, "Project Pulse."

**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."

**Middendorf, B. Jan,** US Department of Education, \$33,333, "Mueller Aerospace & Engineering Discovery Magnet."

Murry, Kevin G., US Department of Education, \$294,509, "Project Advocate."

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

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

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

**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 Technolgies."

**Spears, Jacqueline D., Neilsen, Mitchell L.** (Computing and InformationSciences), **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

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

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

**Kramer, Bradley A.,** Kansas Board of Regents, \$31,480, "PFI: Kansas Bioprocessing Science and Engineering Center."

**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.,** and **Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$30,812, "Match for EDA "Kansas Opportunity Innovation Network" KOIN."

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

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

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

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

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

**Tucker, Jeffrey W.,** and **Kramer, Bradley A.**, US Department of Commerce, \$260,000, "University Center Economic Development Program."

# 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., USDepartment 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."

**Brokesh, Edwin L.,** US Department of Energy, \$61,232, "IBSAL Simulation Work for High- Tonnage Logistics Project."

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

**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.**, USDepartment 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, Gurdip (Computing and Information Sciences), Kansas Department of Commerce, "University Engineering Initiative Act (UEIA)."

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

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

**Hutchinson, Stacy L.,** US Army, \$34,998, "Assessing the Relationship between Remotely Sensed Products Derived from MODIS Satellite Imagery and Landscape Ecological Measurements."

**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.,** and **Steichen, James M.**, US Department of Agriculture, \$98,850, "Measurement and Modeling of Fugitive Dust from Off-Road DOD Activities."

**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. Vara (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."

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

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**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 Mitigaion for Enterprise Networks."

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**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."

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**Day, Dwight D.,** Sandia National Laboratories, \$79,045, "Advanced, Low Power, High Performance Processor Technology Research."

**Dyer, Stephen A.,** and **Burrack, Frederick** (Assessment and Program Review), National Science Foundation, \$39,078, "Music, Signals & Systems: A Multi-Campus, Cross-Disciplinary Proposal for Inclusive General Education."

**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 Then 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)."

Kuhn, William B., US Department of Energy, \$49,606, "Research in Silicon-on-Insulator RFIC Design, FY 2012."

**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 Appliations."

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."

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

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), NationalAeronautics and Space Administration, "Developing BioSensor Networks and Telecommunication Sub-systems for Long-duration Missions, EVA Suits, and Robotic Precursor Scout Missions -Coordinated Research Spanning Early-stage Innovations through Game Changing Technologies."

Warren, Steven, Barstow, Thomas J. (Kinesiology), 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, Gurdip (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."

## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

**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, "Measuring Impact of Field Based Analytics Education."

**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, Gurdip** (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 Manufactoring."

**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."

**McCullough, Elizabeth A.,** Occupational Safety and Health Council, \$5,198, "Manikin Evaluation of Personal Cooling Systems - Part II."

**McCullough, Elizabeth A.,** and **Eckels, Steven J.**, US Department of Defense, \$70,360, "Evaluation of Personal Cooling Systems (PCS) for Soldiers."

**McCullough, Elizabeth A.,** US Department of Defense, \$13,949, "Heat Stress Testing of PCU Items per ASTM F 1291."

**McCullough, Elizabeth A.,** US Department of Defense, \$23,949, "The Effect of Environmental and Storage Conditions on the Insulation Provided by PCU Garments."

#### KANSAS INDUSTRIAL EXTENSION SERVICES

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

Hamel, Ryan J., and Larson, Nancy J., US Environmental Protection Agency, "Source Reduction Healthcare and Lodging Facilities."

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."

#### MECHANICAL AND NUCLEAR ENGINEERING

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

**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, \$35,376, "Metamaterials for Acoustic Cloaking."

**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 SystemsEngineering), 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."

**Geuther, Jeffrey A.,** and **Edgar, James H.** (Chemical Engineering), US Department of Homeland Security, \$72,808, "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 **Reinert, Dana M.** (Dean of Human Ecology), US Nuclear Regulatory Commission, \$29,994, "Curriculum Modules for Nuclear Engineering: Corrosion and Radiation Effects on Electronic Materials."

**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."

**McGregor, Douglas S.,** US Department of Defense, \$622,303, "Microstructured Semiconductor Neutron Detector."

**McGregor, Douglas S.,** and **Shultis, J. Kenneth**, US Department of Defense, \$373,000, "Neutron Detector."

**McGregor, Douglas S.,** US Department of Defense, \$412,384, "Replacement Technology for 3He-Gas Filled Neutron Detectors."

**McGregor, Douglas S.,** and **Shultis, J. Kenneth**, US Department of Energy, \$97,321, "Technical Assistance on Compact Fission Chamber Development."

**McGregor, Douglas S.,** and **Shultis, J. Kenneth**, US Department of Energy, \$23,596, "Technical Assistance on Micro-Pocket Fission Detectors."

**McGregor, Douglas S.,** US Navy, \$230,000, "High Efficiency Solid State Neutron Detector."

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

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."

Shultis, J. Kenneth, and McGregor, Douglas S., US Department of Defense, "Neutron Detector."

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

**Shultis, J. Kenneth,** and **McGregor, Douglas S.**, US Department of Energy, "Technical Assistance on Micro-Pocket Fission Detectors."

**Wang, Youqi,** US Department of Defense, \$97,648, "Application of Digital Element Approach in Textile Mechanics."

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

**Wang, Youqi,** and **Xin, Xiao J.**, US Department of Defense, \$50,000, "Ballistic Strength of Multi-layer Fabric System with Through-the-thickness Reinforcement."

Xin, Xiao J., and Wang, Youqi, US Department of Defense, "Ballistic Strength of Multilayer Fabric System with Through-the-thickness Reinforcement."

## 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."

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

**LeHew, Melody L. A.,** and **Hiller Connell, Kim Y.**, US Department of Agriculture, \$27,954, "Making Climate Change a Functioning Thread in the Baccalaureate Curriculum: Initiating a Transformation in Fiber, Textiles, and Clothing Education."

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

## DEAN OF HUMAN ECOLOGY

Anderson, Dawn L., and Moxley, Virginia M., US Department of Health and Human Services, "Mayo Clinic Center for Clinical and Translational Research."

**Gould, Carol A.,** and **Moxley, Virginia M.**, US Department of Agriculture, "Engaging the New Biology: Integrating Quantitative Genetics and Genomics in Animal Breeding Graduate Learning."

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."

**Moxley, Virginia M.,** and **Gould, Carol A.**, US Department of Agriculture, \$71,974, "Engaging the New Biology: Integrating Quantitative Genetics and Genomics in Animal Breeding Graduate Learning."

**Moxley, Virginia M.,** and **Anderson, Dawn L.**, US Department of Health and Human Services, \$27,296, "Mayo Clinic Center for Clinical and Translational Research."

**Reinert, Dana M.,** and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Nuclear Regulatory Commission, "Curriculum Modules for Nuclear Engineering: Corrosion and Radiation Effects on Electronic Materials."

## 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."

**Melgarejo, L Tonatiuh,** Kansas State University Research Foundation, \$2,679, "Host Defense Peptides-Synthesis and Pilot Project for Leshmania and Gonorrhea Studies."

**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."

**Wang, Weiqun,** US Department of Health and Human Services, \$443,994, "Mechanism of Cancer Prevention by Weight Control."

**Webb, Farrell J.,** US Department of Health and Human Services, \$225,731, "Kansas Bridges to the Future."

## 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 Agriculture, \$1,818,182, "DoD-USDA Partnership: Child Youth Deployment Support Project."

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

**Goff, Briana S., Johannes, Elaine M.**, and **Olsen, Charlotte S.**, US Department of Agriculture, \$28,039, "Military Family Readiness Training System."

**Griffin, Charles L.,** US Department of Health and Human Services, \$490,507, "Technical Support for SRS Strategic Development & Faith Based & Community Initiatives."

**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., Goff, Briana S., and Olsen, Charlotte S., US Department of Agriculture, "Military Family Readiness Training System."

**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."

**Olsen, Charlotte S., Goff, Briana S.**, and **Johannes, Elaine M.**, US Department of Agriculture, "Military Family Readiness Training System."

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

Stith, Sandra M., US Department of Agriculture, \$863,636, "KSU/USAF 2011 FAP Research Project."

**Stith, Sandra M.,** US Department of Agriculture, \$880,910, "KSU/USAF 2011 TBI Collaboration Research Project."

# **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 inChildren."

Marcus, Daniel C., and Wangemann, A. Philine, US Department of Health and Human Services, "Cellular Regulation of Cochlear Blood Flow."

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

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

**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, \$293,454, "Cellular Regulation of Cochlear Blood Flow."

**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-relatedDeafness."

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 Prject III."

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

**Weiss, Mark L.,** US Department of Health and Human Services, \$11,705, "Gradientbased Strategy for Osteochondral Regeneration."

#### **CLINICAL SCIENCES**

Anderson, David E., Larson, Robert L., Miesner, Matt D., and White, Bradley J., Boehringer Ingelheim Vetmedica, Inc., \$18,684, "Evaluation of Two Clostridial Vaccines in Calves."

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., Larson, Robert L., Miesner, Matt D., and White, Bradley J., Intervet, Inc., "Evaluation of Intranasal Modified-Live Vaccine at High Ambient Temperatures."

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."

Anderson, David E., US Department of Defense, \$7,492, "Advanced Functional Nanomaterials for Biological Processes, KSU subtitle: Evaluation of a Novel Multi-component Nanocomposite Material in a Rat Subcutaneous Implant Model."

**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."

**Hodgson, David S.,** US Agency for International Development, \$75,514, "Strengthening Afghanistan Agricultural Faculties (SAAF)."

**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."

Larson, Robert L., Anderson, David E., Miesner, Matt D., and White, Bradley J., Boehringer Ingelheim Vetmedica, Inc., "Evaluation of Two Clostridial Vaccines in Calves."

Larson, Robert L., Anderson, David E., Miesner, Matt D., and White, Bradley J., Intervet, Inc., "Evaluation of Intranasal Modified-Live Vaccine at High Ambient Temperatures."

Larson, Robert L., and White, Bradley J., Pfizer, Inc., "Research Protocol Agreement: Creation of User Specific BVD Decision Tool."

**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 TumorsReceiving Radiation Therapy."

**Miesner, Matt D., Anderson, David E., Larson, Robert L.**, and **White, Bradley J.**, Boehringer Ingelheim Vetmedica, Inc., "Evaluation of Two Clostridial Vaccines in Calves."

**Miesner, Matt D., Anderson, David E., Larson, Robert L.**, and **White, Bradley J.**, Intervet, Inc., "Evaluation of Intranasal Modified-Live Vaccine at High Ambient Temperatures."

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 III 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.,** Kansas Beef Council, \$24,898, "Improving Food Safety, Antimicrobial Residue Avoidance and Animal Welfare in Beef Products through Strategic Beef Quality Assurance (BQA) and Animal Husbandry Training of Kansas Beef Producers."

**Thomson, Daniel U.,** and **Tonsor, Glynn** (Agricultural Economics), US Department of Agriculture, "Beef and Dairy Cattle Animal Welfare: Market Opportunities and Threats."

**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., Larson, Robert L., and Miesner, Matt D., Boehringer Ingelheim Vetmedica, Inc., "Evaluation of Two Clostridial Vaccines in Calves." White, Bradley J., Anderson, David E., and Mosier, Derek A. (Diagnostic Medicine/Pathobiology), Intervet, Inc., "Determination of the Potential Mitigation ofInflammatory Factors in Bovine Respiratory Disease through use of Florfenicol and Flunixin Meglumine."

White, Bradley J., Anderson, David E., Larson, Robert L., and Miesner, Matt D., Intervet, Inc., \$87,627, "Evaluation of Intranasal Modified-Live Vaccine at High Ambient Temperatures."

White, Bradley J., and Larson, Robert L., Pfizer, Inc., \$62,079, "Research Protocol Agreement: Creation of User Specific BVD Decision Tool."

### 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."

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

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

**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), XFE Products, "To Determine the Effect of AV-E Digest and XFE Liquid Energy on Nursery Pig Performance."

**Dryden, Michael W.**, and **Payne, Patricia A.**, Bayer Corporation, \$96,303, "Evaluation of an Integrated Flea Control Regimen Using a Imidacloprid-pyriproxyfen Regimen and a Non-IGR Contain Regimen of Fipronil and Spinosad to Control Flea Populations on Naturally Infested Cats and Dogs in Private Residences in Tampa FL 2012."

**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 <sup>™</sup> (spinosad/milbemycin oxime) and Comfortis® (spinosad) against the KS1 Strain of Ctenocephalides Felis in Dogs."

**Ganta, Roman Reddy R.,** and **Govind, Revathi** (Biology), US Department of Health and Human Services, \$31,650, "Mentor for Revathi Govind Major Starter Grant: Roman Ganta."

**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."

Hanlon, Cathleen A., Pfizer, Inc., "Service Protocol Agreement: Serology Evaluation of Compatibility of Equine West Nile, Eastern, Western, Tetanus and Killed Rabies Vaccine."

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

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

**Hesse, Richard,** and **Rowland, Raymond R. R.**, US Department of Agriculture, "Oral Fluid as a Sample for the Immunological Detection of Pseudorabies Virus (PRV) Infection."

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

**Kastner, Justin J.,** and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$200,000, "Enhancing HS-STEM Education: Frontier's Food Defense and Border Security Career Development Program."

**Kastner, Justin J., Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$117,175, "Interdisciplinary Multi-Institutional Education Programs for NCFPD."

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

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

**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 BeefAssociation, "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."

**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)."

**Nguyen, Thu A.,** and **Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$35,486, "The Molecular Target of Gap Junction Enhancers."

**Payne, Patricia A.,** and **Dryden, Michael W.**, Bayer Corporation, "Evaluation of an Integrated Flea Control Regimen Using a Imidacloprid-pyriproxyfen Regimen and a Non-IGR Contain Regimen of Fipronil and Spinosad to Control Flea Populations on Naturally Infested Cats and Dogs in Private Residences in Tampa FL 2012."

**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, Tiruvoor 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, Tiruvoor G.**, National Cattlemen's BeefAssociation, \$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 Surveilance (CEIRS)."

**Richt, Juergen,** US Department of Health and Human Services, \$465,995, "Pathogenesis, Transmission and Detection of Zoonotic Prion Diseases."

**Richt, Juergen, Anderson, Gary A.** (Veterinary Diagnostic Laboratory), **Hesse, Richard**, **Ma, Wenjun**, **Rowland, Raymond R. R.**, and **Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Homeland Security, \$1,849,679, "Center of Excellence for Emerging & Zoonotic Animal Disease (CEEZAD)."

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 **Hesse, Richard**, US Department of Agriculture, \$124,000, "Oral Fluid as a Sample for the Immunological Detection of Pseudorabies Virus (PRV) Infection."

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

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

**Rowland, Raymond R. R.,** US Department of Homeland Security, \$412,672, "Comparison of Different Sample Source and Sample Pooling for the Detection and Surveillance of CSF."

**Rowland, Raymond R. R.,** US Department of Homeland Security, \$53,175, "Graduate Student Fellowship for Amanda Beck."

**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."

**Sanderson, Michael W.,** and **Schroeder, Ted C.** (Agricultural Economics), US Department of Homeland Security, \$78,951, "Sustainability of the Beef Production System in the Face of an FMD Outbreak."

**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.,** US Department of Agriculture, \$4,730, "Psuedorabies Surveillance."

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

Hanlon, Cathleen A., Pfizer, Inc., \$26,130, "Service Protocol Agreement: Serology Evaluation of Compatibility of Equine West Nile, Eastern, Western, Tetanus and Killed Rabies Vaccine."

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**

#### 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 **Harner III, Joseph P.** (Biological and Agricultural Engineering), US Environmental Protection Agency, "Kansas Environmental Leadership Program (KELP) 2010."

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

**Eberle, William M., Presley, DeAnn R.**, and **Ruiz Diaz Suarez, Dorivar A.**, Kansas Department of Health and Environment, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

**Presley, DeAnn R., Eberle, William M.**, and **Ruiz Diaz Suarez, Dorivar A.**, Kansas Department of Health and Environment, \$10,368, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

**Ruiz Diaz Suarez, Dorivar A., Eberle, William M.**, and **Presley, DeAnn R.**, Kansas Department of Health and Environment, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

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

# **COUNTY AGENTS - METROPOLITAN SECTOR**

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

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

# **COUNTY AGENTS - NORTHWEST SECTOR**

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

# DIRECTOR OF COOPERATIVE EXTENSION

**Lindquist, Jack W.,** Kansas Agriculture and Rural Leadership, Inc., \$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,** US Department of Agriculture, \$133,068, "Military Life Skills Education Program at Ft. Riley, 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

**Peters, Paula,** and **Procter, Sandra B.**, US Department of Agriculture, "Kansas Food Assistance Nutrition Education Plan."

**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."

**Beck, William J.,** and **Biles, Larry E.**, US Environmental Protection Agency, "Evaluation of Riparian Conditions in Two Watersheds."

**Beck, William J.,** and **Biles, Larry E.**, US Environmental Protection Agency, "Riparian Forest Management Tech Assistance SFY 2012; 2013."

**Biles, Larry E.,** Kansas Department of Agriculture, \$27,498, "Reparian 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."

**Biles, Larry E.,** US Department of Agriculture, \$168,723, "Rangeland Management Lesser Prairie-Chicken Initiative."

**Biles, Larry E.,** and **Beck, William J.**, US Environmental Protection Agency, \$22,507, "Evaluation of Riparian Conditions in Two Watersheds."

**Biles, Larry E.,** and **Beck, William J.**, US Environmental Protection Agency, \$89,300, "Riparian Forest Management Tech Assistance SFY 2012; 2013."

**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.,** Cotton, Inc., \$3,855, "Cotton Variety Performance Tests for Kansas."

**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**

**Falk, Jeanne S., O'Brien, Daniel M.**, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Sunflower Commission, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

Falk, Jeanne S., OBrien, Robert T., and Stahlman, Phillip W. (Agricultural Research Center-Hays), National Sunflower Association, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

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

**O'Brien, Daniel M., Golden, Bill B.** (Agricultural Economics), **Langemeier, Michael R.** (Agricultural Economics), **Roozeboom, Kraig L.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), **Taylor, Mykel R.** (Agricultural Economics), and **Thompson, Curtis R.** (Agronomy), Kansas Corn Commission, \$66,325, "A Study of the Efficiency of Corn and Sorghum Production in 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."

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

**O'Brien, Daniel M., Falk, Jeanne S.**, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), Kansas Sunflower Commission, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

**OBrien, Robert T., Falk, Jeanne S.**, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, "Mitigating the Threat of Palmer Amaranth to Sunflower Production."

**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 Evaluaion 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

**Duke, Linda A.,** Luce, Henry, Foundation, Inc., \$75,000, "Associated American Artists (1934-2000)."

### 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

**Burrack, Frederick,** and **Dyer, Stephen A.** (Electrical and Computer Engineering), National Science Foundation, \$39,078, "Music, Signals & Systems: A Multi-Campus, Cross-Disciplinary Proposal for Inclusive General Education."

#### 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."

**Procter, David E., Kahl, Daniel W.** (Agriculture and Natural Resources), and **Peterson, Hikaru H.** (Agricultural Economics), US Department of Agriculture, \$408,889, "Business Strategies for New and Existing Rural Grocery Stores: Roles of Local Foods, Institutional Sales, and Community Food Assessment."

**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."

**Drouillard, James S., Gonzalez, John M.** (Animal Sciences and Industry), and **Sexten, Andrea K.** (Animal Sciences and Industry), Alltech, Inc., "Alternative Feeding Strategies to Enhance Feedlot Performance and Carcass Characteristics of Finishing Cattle."

# OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT

**Gordon, Myra E.,** and **Ehie, Ike C.** (Management), British American Tobacco Plc., \$35,002, "Advancing Economic Development through Strengthening the MBA Programs in Nigeria."

#### OFFICE OF THE PROVOST

**Chavez, Mirta,** and **Gordon, Myra E.**, Juvenile Justice Authority, "Project IMPACT Leadership Program."

**Gordon, Myra E.,** and **Chavez, Mirta**, Juvenile Justice Authority, \$53,051, "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

**Heublein, John A.,** and **Von Bergen, Donald**, US Department of Education, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

**Von Bergen, Donald,** and **Heublein, John A.**, US Department of Education, \$4,500, "Kansas State Dept. of Education Mathematics and Science Partnership Program."

# SALINA AVIATION

**Karcz, Thomas L.,** National Aeronautics and Space Administration, \$14,066, "Aeroelastic Modeling Effects and Flight Test Demonstration of Resilent Adaptive Flight Controls on a General Aviation Testbed: Dynamic Inverse and Adaptive Critic Methods."

# VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

# KSU POLICE DEPARTMENT

**Stubbings, Donald C.,** Kansas Department of Revenue, \$5,271, "Underage Drinking at KSU Football - 2011."

**Stubbings, Donald C.,** US Department of Homeland Security, \$200,000, "Fiscal Year 2010 Buffer Zone Protection Program."

# 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."

**Rusk, John S.,** US Department of Agriculture, \$2,995, "Tissue Digestor Research Project - Sterilization and Disposal of Agricultural Quarantine Waste."

#### 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, \$288,576, "Student Support Services at KSU-Manhattan."

**Greene, Kathleen V.,** US Department of Education, \$222,151, "Student Support Services at KSU-Salina."

Lynch, Michael L., Turner, Margaret A., and Vassol, Elverta L., US Department of Education, "Upward Bound Math and Science Program II."

**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)."

**Turner, Margaret A., Lynch, Michael L.**, and **Vassol, Elverta L.**, US Department of Education, \$240,971, "Upward Bound Math and Science Program II."

**Vassol, Elverta L.,** US Department of Agriculture, \$5,402, "Kansas State University 2011 Upward Bound Math/Science Program Summer Food Service Program."

**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 Reseach 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 Plumera (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' Dystropian 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 "Interjurisdictional Competition and Land Development: A Micro-level Analysis at the 22<sup>nd</sup> 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 Congres 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, Katrina M**, Interior Architecture and Product Design, \$500; Present "Pedagogical Innovations in Designing Fair Trade at the Engaging Hearts and Minds Conference: Equity, Social Justice and Global Citizenship in Action" in Canada

**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 coorganize 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 Conprehensive 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 Narratologia '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

	Proposals				Awards		
Department/College	Submitted	Period	Total	Received	Total		
COLLEGE OF AGRICULTURE							
Agricultural Economics	29	\$1,801,775	\$3,509,920	24	\$3,275,769		
Agricultural Experiment Station	2	\$608,484	\$608,484	1	\$165,000		
Agricultural Research Center-Hays	14	\$254,078	\$352,082	15	\$432,201		
Agriculture and Natural Resources	0	\$0	\$0	0	\$0		
Agronomy	103	\$7,562,996	\$17,618,679	77	\$6,135,014		
Animal Sciences and Industry	39	\$2,291,365	\$4,554,551	27	\$1,463,992		
Communications	7	\$369,621	\$1,086,617	1	\$49,639		
Dean of Agriculture and Director of AES	0	\$0	\$0	2	\$81,958		
Entomology	41	\$2,075,431	\$4,411,272	28	\$1,361,623		
Food Science Institute	1	\$120,026	\$120,026	1	\$117,175		
Grain Science and Industry	59	\$6,452,183	\$9,779,535	37	\$2,165,610		
Horticulture, Forestry and Recreation Resources	37	\$2,942,028	\$8,461,257	16	\$755,787		
International Agricultural Programs	0	\$0	\$0	2	\$125,945		
Kansas Industrial Extension Services	0	\$0	\$0	0	\$0		
KS Ctr for Agri & the Env./KS Water Resource Res. Inst.	23	\$1,831,495	\$2,696,290	16	\$1,514,499		
Northwest Research Extension Center	9	\$65,838	\$73,110	7	\$231,733		
Office of Academic Programs	1	\$144,561	\$144,561	1	\$74,134		
Plant Biotechnology Center	1	\$80,000	\$380,000	0	\$0		
Plant Pathology	60	\$6,567,946	\$16,608,942	61	\$7,375,691		
Southeast Agricultural Research Center	3	\$43,248	\$55,934	3	\$39,607		
Southwest Research Extension Center	8	\$185,020	\$988,001	7	\$453,934		
Total Agriculture	437	\$33,396,095	\$71,449,261	326	\$25,819,311		
COLLEGE OF ARCHITECTURE, PLANNING & DESIGN Architecture	1	\$35,000	\$35,000	0	\$0		
Dean of Architecture, Planning and Design	0	\$0	\$0	0	\$0		
Interior Architecture and Product Design	3	\$83,566	\$269,924	2	\$33,982		
Landscape Architecture/Regional & Community Planning	6	\$599,736	\$781,029	4	\$261,936		
Total Architecture, Planning and Design	10	\$718,302	\$1,085,953	6	\$295,918		
COLLEGE OF ARTS AND SCIENCES							
American Ethnic Studies	0	\$0	\$0	0	\$0		
Art	0	\$0	\$0	0	\$0		
Biochemistry	24	\$3,634,964	\$9,612,159	11	\$1,383,653		
Biology	90	\$14,288,775	\$32,202,313	60	\$10,262,919		
Center for Basic Cancer Research	1	\$90,000	\$270,000	0	\$0		
Chemistry	49	\$5,749,857	\$13,048,755	14	\$1,673,244		
Communication Studies, Theatre and Dance	1	\$118,678	\$592,263	0	\$0		
Community Health Institute	0	\$0	\$0	0	\$0		
Dean of Arts and Sciences	1	\$443,484	\$443,484	0	\$0		
Economics	0	\$0	\$0	0	\$0		
English	1	\$180,674	\$180,674	0	\$0		
Geography	27	\$2,645,522	\$10,722,116	12	\$423,393		
Geology	9	\$748,723	\$1,631,585	7	\$486,811		
History	0	\$0	\$0	2	\$43,000		
Kinesiology	8	\$890,369	\$926,119	6	\$268,607		
Mathematics	20	\$1,753,299	\$6,585,432	7	\$539,233		
Modern Languages	0	\$0	\$0	0	\$0		

		Proposals		Awards		
Department/College	Submitted	Period	Total	Received	Total	
Music	2	\$25,950	\$173,358	1	\$15,950	
Philosophy	1	\$8,996	\$27,284	0	\$0	
Physics	36	\$6,576,630	\$18,839,091	22	\$6,921,664	
Political Science	3	\$170,213	\$701,134	2	\$87,469	
Psychology	13	\$2,426,737	\$4,447,266	4	\$1,181,142	
School of Journalism and Mass Communications	1	\$192,258	\$192,258	1	\$388,368	
Sociology, Anthropology and Social Work	12	\$546,203	\$962,657	5	\$87,277	
Statistics	9	\$387,960	\$1,493,841	2	\$36,953	
Women Studies	0	\$387,900 \$0	\$1,495,641	0	\$30,955 \$0	
Total Arts and Sciences	308	\$40,879,292	\$103,051,789	156	\$23,799,683	
COLLEGE OF BUSINESS ADMINISTRATION						
Finance	0	\$0	\$0	0	\$0	
Accounting	0	\$0	\$0	0	\$0	
Dean of Business Administration	0	\$0	\$0	0	\$0	
Management	0	\$0	\$0	2	\$38,002	
Marketing	0	\$0	\$0	0	\$0	
Total Business Administration	0	\$0	\$0	2	\$38,002	
COLLEGE OF EDUCATION						
Curriculum and Instruction	3	\$162,572	\$475,614	1	\$4,014	
Dean of Education	33	\$3,009,831	\$8,635,221	29	\$5,678,838	
Educational Leadership	1	\$168,369	\$549,995	1	\$66,106	
Elementary Education	0	\$0	\$0	0	\$0	
Secondary Education	0	\$0	\$0	0	\$0	
Special Education, Counseling and Student Affairs	1	\$167,936	\$299,998	0 0	\$0 \$0	
Special Education, Coursening and Student Analis		ψ107,950	φ299,990	0	ψυ	
Total Education	38	\$3,508,708	\$9,960,828	31	\$5,748,958	
COLLEGE OF ENGINEERING						
Advanced Manufacturing Institute	7	\$387,330	\$1,177,996	6	\$1,390,487	
Architectural Engineering and Construction Science	1	\$30,000	\$30,000	2	\$60,722	
Biological and Agricultural Engineering	33	\$3,372,145	\$5,332,654	26	\$1,746,929	
Center for Hazardous Substance Research	5	\$203,307	\$573,644	7	\$595,543	
Chemical Engineering	21	\$7,998,607	\$11,358,380	, 13	\$1,767,029	
Civil Engineering	40	\$4,225,764	\$9,612,278	20	\$1,505,432	
	33	\$6,452,850		20 16	\$2,902,450	
Computing and Information Sciences			\$15,854,647 \$2,862,006			
Dean of Engineering	3	\$363,096	\$3,863,096 \$5,503,083	3	\$3,862,252	
Electrical and Computer Engineering	28	\$2,465,145	\$5,503,983	25	\$2,105,802	
Engineering Experiment Station	3	\$173,276	\$173,276	3	\$173,276	
Industrial and Manufacturing Systems Engineering	24	\$1,264,767	\$2,107,841	13	\$787,941	
Institute for Environmental Research	7	\$502,846	\$811,360	10	\$898,846	
Kansas Industrial Extension Service	14	\$1,247,828	\$1,804,600	12	\$672,125	
Mechanical and Nuclear Engineering	47	\$6,784,796	\$16,071,848	29	\$3,549,961	

	Proposals				Awards		
Department/College	Submitted	Period	Total	Received	Total		
National Gas Machinery Laboratory	3	\$335,832	\$824,088	1	\$58,216		
National Institute for Land Management and Training	0	\$0	\$0	0	\$0		
Total Engineering	269	\$35,807,589	\$75,099,691	186	\$22,077,011		
COLLEGE OF HUMAN ECOLOGY							
Apparel, Textiles, and Interior Design	1	\$240,905	\$749,998	2	\$28,854		
Communication Studies, Theatre, Dance	0	\$0	\$0	0	\$0		
Communications	0	\$0	\$0	0	\$0		
Dean of Human Ecology	4	\$438,806	\$959,728	4	\$428,501		
Hospitality Management and Dietetics	1	\$8,760	\$8,760	2	\$145,168		
Human Nutrition	14	\$1,912,584	\$2,952,217	13	\$2,564,729		
School of Family Studies and Human Services	15	\$13,193,704	\$14,219,327	16	\$15,630,852		
Total Human Ecology	35	\$15,794,759	\$18,890,030	37	\$18,798,104		
COLLEGE OF TECHNOLOGY AND AVIATION							
Academic Services	0	\$0	\$0	0	\$0		
Applied Aviation Research Center	1	\$4,291	\$12,873	ů 0	\$0		
Arts, Science and Business	0	\$0	\$0	1	\$4,500		
Aviation	1	\$45,000	\$45,000	1	\$14,066		
Dean of College of Technology and Aviation	0	\$0	\$0	0	\$0		
Engineering Technology	1	\$296,994	\$818,113	0	\$0		
Fiscal Affairs	0	\$0	\$0	0	\$0		
Total Technology and Aviation	3	\$346,285	\$875,986	2	\$18,566		
COLLEGE OF VETERINARY MEDICINE							
Anatomy and Physiology	48	\$7,334,213	\$22,930,335	20	\$3,090,238		
Clinical Sciences	22	\$1,246,687	\$1,767,097	16	\$1,219,405		
Dean of Veterinary Medical Center	1	\$1,374,873	\$4,897,195	2	\$287,167		
Diagnostic Medicine/Pathobiology	36	\$9,465,140	\$18,929,328	34	\$8,882,207		
Veterinary Diagnostic Laboratory	4	\$248,449	\$248,449	3	\$61,860		
Veterinary Medical Teaching Hospital	0	\$0	\$0	3	\$22,405		
Total Veterinary Medical Center	111	\$19,669,362	\$48,772,404	78	\$13,563,282		
COOPERATIVE EXTENSION							
Cooperative Extension - Agriculture							
Agricultural Economics	0	\$0	\$0	0	\$0		
Agriculture and Natural Resources	3	\$798,017	\$798,017	3	\$383,458		
Agronomy	1	\$10,368	\$10,368	1	\$10,368		
Biological and Agricultural Engineering	0	\$0	\$0	0	\$0		
Communications	0	\$0	\$0	0	\$0		
County Agents-Metropolitan Sector	0	\$0 \$0	\$0 \$0	0	\$0 \$0		
County Agents-Northwest Sector Director of Cooperative Extension	0 4	\$0 \$3,434,247	\$0 \$3,434,247	0 4	\$0 \$3,376,842		
Four-H Youth Development	4 5	\$3,434,247 \$359,657	\$3,434,247 \$359,657	4 5	\$3,376,842 \$295,157		
Kansas Forest Service	12	\$5,265,747	\$5,265,747	12	\$6,522,887		
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		Proposals	Awards		
Department/College	Submitted	Period	Total	Received	Total
Northeast Area Office	3	\$12,117	\$12,117	4	\$17,137
Northeast/Metro Area Office	0	\$0	\$0	0	\$0
Northwest Area Office	2	\$75,685	\$75,685	3	\$91,685
Southeast Area Office	3	\$15,478	\$15,478	3	\$12,532
Southwest Area Office	3	\$26,399	\$123,596	2	\$7,638
Subtotal Cooperative Ext - Agriculture	36	\$9,997,715	\$10,094,912	37	\$10,717,704
Cooperative Extension - Human Ecology					
Family and Consumer Sciences	1	\$4,745,011	\$4,745,011	1	\$2,359,722
Human Nutrition	0	\$0	\$0	0	\$0
Nutrition Program	0	\$0	\$0	0	\$0
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Subtotal Cooperative Ext - Human Ecology	1	\$4,745,011	\$4,745,011	1	\$2,359,722
Total Cooperative Extension	37	\$14,742,726	\$14,839,923	38	\$13,077,426
OFFICE OF THE PRESIDENT					
Auditorium Performances	1	\$3,200	\$3,200	0	\$0
Beach Art Museum	1	\$151,500	\$151,500	1	\$75,000
Office of the President	1	\$1,500,000	\$1,500,000	1	\$1,500,000
Once of the President	I	\$1,500,000	\$1,500,000	I	\$1,500,000
Total Office of the President	3	\$1,654,700	\$1,654,700	2	\$1,575,000
OFFICE OF THE PROVOST					
Assessment and Program Review	0	\$0	\$0	1	\$39.078
Center for Engagement and Community Development	3	\$251,007	\$670,380	5	\$471,045
Dean of Continuing Education	0	\$0	\$070,000 \$0	1	\$75,000
Dean of Graduate School	2	\$295,157	\$295,157	2	\$295,157
International Programs	2	\$141,335	\$264,929	1	\$10,224
Kansas Center for Rural Initiatives	0	\$141,555	\$204,929 \$0	0	\$10,224
	0	\$0 \$0	\$0 \$0	1	<del>پ</del> 0 \$750
Library Office of Diversity and Duel Career Development				1	
Office of Diversity and Dual Career Development	0	\$0 \$100,400	\$0 ¢050 744		\$35,002
Office of the Provost	2	\$180,129	\$653,714	1	\$53,051
Regent's Educational Communications Center	0	\$0	\$0	0	\$0
School of Leadership Studies	3	\$111,257	\$111,257	3	\$180,314
Office of Vice President for Communications and Marketin	nç O	\$0	\$0	0	\$0
Total Office of the Provost	12	\$978,885	\$1,995,437	16	\$1,159,621
OFFICE OF THE VICE PRESIDENT FOR ACADEMIC SERVICES AND TECHNOLOGY					
Inforrmation Technology Assistance Center	0	\$0	\$0	0	\$0
Total Academic Services and Technology	0	\$0	\$0	0	\$0

		Proposals	Awards		
Department/College	Submitted	Period	Total	Received	Total
OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE					
Budget Office	0	\$0	\$0	0	\$0
KSU Police Department	1	\$5,271	\$5,271	2	\$205,271
Public Safety	0	\$0	\$0	1	\$2,600,000
Vice President for Administration and Finance	1	\$2,600,000	\$2,600,000	0	\$0
Total Administration and Finance	2	\$2,605,271	\$2,605,271	3	\$2,805,271
OFFICE OF THE VICE PRESIDENT FOR RESEARCH					
Biosecurity Research Institute	0	\$0	\$0	4	\$752,521
Comparitive Medicine	0	\$0	\$0	0	\$0
K-State Olathe Innovation Campus	3	\$1,077,597	\$2,148,856	0	\$0
National Agricultural Biosecurity Center	2	\$67,000	\$67,000	2	\$812,000
Office of the Vice President for Research	1	\$443,484	\$443,484	2	\$5,081,000
Vice President Biotech Laboratory	0	\$0	\$0	1	\$57,054
Vice President Electronics Design Laboratory	1	\$2,725	\$2,725	3	\$330,790
Total Vice President for Research	7	\$1,590,806	\$2,662,065	12	\$7,033,365
OFFICE OF THE VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS					
Department of Housing	0	\$0	\$0	0	\$0
Educational and Personal Development	5	\$1,166,449	\$5,820,965	11	\$1,288,752
KSU Child Development Center, Inc.	1	\$2,500	\$2,500	3	\$310,126
Office of Vice President for Student Life	0	\$0	\$0	0	\$0
University Counseling Services	1	\$74,000	\$74,000	1	\$37,000
Total Student Life and Dean of Students	7	\$1,242,949	\$5,897,465	15	\$1,635,878
University Totals	1,279	\$172,935,729	\$358,840,803	910	\$137,445,396

#### KANSAS STATE UNIVERSITY SUMMARY OF EXTRAMURAL SUPPORT

#### FY2012

	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>
AGRICULTURE					
Dean of Agriculture & Director of AES	\$19,546	\$0	\$41,518	\$0	\$81,958
Agricultural Economics	\$2,529,003	\$1,350,847	\$2,408,959	\$2,179,162	\$3,275,769
Agronomy	\$3,402,577	\$4,892,905	\$6,779,713	\$4,911,685	\$6,135,014
Animal Sciences & Industry	\$2,855,594	\$1,882,156	\$1,327,458	\$2,425,820	\$1,463,992
Communications	\$40,313	\$0	\$76,436	\$0	\$49,639
Entomology	\$2,075,416	\$1,560,774	\$1,898,520	\$2,316,683	\$1,361,623
Food Science Institute	\$13,351	\$112,657	\$218,472	\$117,689	\$117,175
Grain Science & Industry Hort., Forestry & Recreation Resources	\$1,408,563 \$1,046,426	\$3,396,240 \$1,082,763	\$1,582,167 \$514,216	\$1,376,246 \$368,293	\$2,165,610 \$755,787
International Agriculture Programs	\$1,040,420 \$0	\$1,002,703	\$514,210 \$0	\$3,982	\$125.945
KS Ctr for Agri & the Env/KS Water Res. Res. Inst.	\$1,175,284	\$1.162.960	\$886,398	\$647,659	\$1,514,499
Office of Academic Programs	\$11,938	\$74,134	\$221,702	\$150,210	\$74,134
Plant Pathology	\$3,714,770	\$7,607,972	\$6,754,886	\$5,451,762	\$7,375,691
Agricultural Experiment Station	\$260,755	\$123,192	\$333,010	\$210,000	\$165,000
Northwest Research Extension Center	\$137,915	\$338,258	\$393,406	\$410,701	\$231,733
Agricultural Research Center-Hays	\$343,317	\$379,088	\$608,307	\$575,798	\$432,201
Southeast Agricultural Res. Ctr. Southwest Research Extension Ctr.	\$41,000 \$248,663	\$52,295 \$459,809	\$41,305 \$436,221	\$49,937 \$398,106	\$39,607 \$453,934
Extension Director	\$101,574	\$104,209	\$424,058	\$798,100	\$3,376,842
Extension Agricultural Economics	\$0 \$0	\$0	\$0	\$45.696	\$0,070,042
Extension Agronomy	\$0	\$11,500	\$15,529	\$12,571	\$10,368
Extension Animal Sciences & Industry	\$0	\$0	\$0	\$0	\$0
Extension Biological & Agricultural Engineering	\$0	\$0	\$45,000	\$25,000	\$0
Extension Communications	\$0	\$0	\$0	\$0	\$0
Extension Community Health Institute	\$0	\$0	\$0	\$0	\$0
Extension Entomology	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Extension Human Nutrition Extension Four-H Youth Development	\$0 \$135,300	\$0 \$77,280	\$0 \$253.000	\$0 \$228,500	\$0 \$295.157
Extension Grain Science and Industry	\$135,300 \$0	\$77,280 \$0	\$253,000 \$0	\$228,500 \$0	\$295,157 \$0
Extension Hort., Forestry & Rec. Res.	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Extension KS Ctr. for Agriculture & the Environ.	\$0	\$0	\$0 \$0	\$17,500	\$0
Extension Kansas Forest Service	\$455,528	\$3,391,477	\$5,914,897	\$493,890	\$6,522,887
Extension Kansas Water Resource Res. Inst.	\$13,100	\$15,000	\$0	\$0	\$0
Extension Northeast Area Office	\$5,500	\$5,330	\$10,620	\$12,446	\$17,137
Extension Northwest Area Office	\$6,700	\$39,394	\$18,822	\$40,613	\$91,685
Extension Plant Pathology	\$0	\$0	\$0	\$0	\$0
Extension Agriculture and Natural Resources Extension South Central Area Office	\$733,769	\$690,210	\$489,315	\$503,211	\$383,458
Extension South Central Area Office	\$0 \$0	\$0 \$900	\$0 \$3,933	\$0 \$37,776	\$0 \$12,532
Extension Southeast Area Office	\$0 \$0	\$77,388	\$45,169	\$21,710	\$7,638
College Totals	\$20,775,900	\$28,888,737	\$31,743,036	\$23,830,745	\$36,537,015
ARCHITECTURE, PLANNING AND DESIGN					
Dean of Architecture, Planning & Design	\$0	\$0	\$0	\$0	\$0
Architecture	\$0 \$0	\$0 \$0	\$0 \$5 000	\$0 \$0	\$0 \$22.092
Interior Architecture and Product Design Landscape Arch/Regional & Comm Plan	\$0 \$0	\$0 \$0	\$5,000 \$167,343	\$0 \$60,008	\$33,982 \$261,936
College Totals	\$0 \$0	\$0	\$172,343	\$60,008	\$295,918
ARTS AND SCIENCES					
Dean of Arts & Sciences	\$976,305	\$1,668,091	\$0	\$15,000	\$0
Biochemistry	\$2,347,721	\$1,158,896	\$3,018,734	\$1,457,390	\$1,383,653
Biology	\$10,827,536	\$7,271,896	\$8,171,385	\$8,471,140	\$10,262,919
Chemistry Communication Studies, Theatre & Dance	\$1,793,346 \$0	\$2,498,285 \$10,962	\$3,340,693 \$59,374	\$3,784,835 \$0	\$1,673,244 \$0
Communication Studies, Theatre & Dance Community Health Institute	ەں \$545,503	\$10,962 \$24,118	\$59,374 \$0	\$0 \$0	\$0 \$0
Economics	\$50,961	\$85,000	\$0 \$0	\$0 \$0	\$0 \$0
English	\$3,300	\$03,000 \$0	\$740	\$23,334	\$0 \$0
Geography	\$296,582	\$263,927	\$165,536	\$497,609	\$423,393
Geology	\$44,250	\$187,153	\$288,128	\$172,352	\$486,811
History	\$45,000	\$84,987	\$65,000	\$25,000	\$43,000
Kinesiology	\$178,355	\$132,002	\$317,481	\$198,395	\$268,607
Mathematics	\$225,140	\$278,372	\$1,183,781	\$387,717	\$539,233
Music	\$16,326	\$15,920	\$14,050	\$17,850	\$15,950

	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>
Philosophy	\$34,000	\$0	\$0	\$0	
Physics	\$6,521,168	\$7.020.697	\$5.241.624	\$9,318,025	\$6,9
Political Science	\$85,320	\$0	\$314,246	\$0	
Psychology	\$428,399	\$196,473	\$625,142	\$648,914	\$1,1
School of Journalism & Mass Communications	\$656,180	\$38.873	\$0	\$89.924	\$3
Sociology, Anthropology, & Social Work	\$394,420	\$647,465	\$760,237	\$333,359	φC \$
Speech Communication, Theatre and Dance	\$0	\$0	\$0	\$000,000 \$0	4
Statistics	\$31,438	\$0 \$0	\$51,633	\$45,164	\$
Woman Studies	\$31,438 \$0	\$0 \$0	\$01,633 \$0	\$45,164 \$10,050	4
College Totals	\$25,501,249	\$21,583,116	\$23,617,786	\$25,496,059	\$23,7
BUSINESS ADMINISTRATION					
Dean of Business Administration	\$0	\$0	\$0	\$0	
Accounting	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
Marketing	\$0 \$0	\$0 \$0	\$15,463	\$3,250	
Management	\$6,750	\$26,213	\$228,749	\$38,772	\$
College Totals	\$6,750	\$26,213	\$244,212	\$42,022	\$
	φ0,750	\$20,215	φ244,212	\$42,022	ų
EDUCATION					
Curriculum and Instruction	\$0	\$0	\$0	\$0	
Dean of Education	\$6,394,039	\$5,340,335	\$6,403,595	\$3,690,061	\$5,6
Educational Leadership	\$21,823	\$198,056	\$110,947	\$65,885	\$
Elementary Education	\$5,000	\$31,870	\$32,370	\$32,370	
Secondary Education	\$70,604	\$0	\$30,984	\$0	
Special Education, Counseling and Student Affairs	\$3,500	\$0	\$0	\$0	
College Totals	\$6,494,966	\$5,570,261	\$6,577,896	\$3,788,316	\$5,7
ENGINEERING					
Dean of Engineering	\$11,424	\$16,599	\$323,884	\$20,106	\$3,8
Advanced Manufacturing Institute	\$1,794,855	\$1,681,912	\$2,141,383	\$2,550,702	\$1,3
Architectural Engg & Construction Sci	\$0	\$0	¢2,141,505 \$0	\$0	\$
Biological & Agricultural Engineering	\$2,186,599	\$2,846,196	\$2,923,787	\$1,422,306	\$1,7
Center for Hazardous Substance Research	\$965,107	\$885,820	\$1,222,000	\$290,245	\$5
Chemical Engineering	\$1,247,069	\$2,149,271	\$2,851,943	\$4,715,020	φ3 \$1,7
Civil Engineering	\$1,519,056	\$2,642,966	\$2,850,820	\$2,279,751	\$1,5
Computing & Information Sciences	\$1,870,154	\$961,723	\$3,328,123	\$2,252,037	\$2,9
Electrical & Computer Engineering	\$908,069	\$994,953	\$2,703,700	\$1,835,404	\$2,3 \$2,1
Engineering Experiment Station	\$908,069 \$12,000		\$2,703,700 \$67,079	\$54,409	ہ 1\$
		\$123,404			
Institute for Environmental Research	\$1,384,242	\$988,891	\$1,368,029	\$1,080,237	\$8
Extension Engineering	\$0 \$424 700	\$0 \$072.050	\$0 \$404 774	\$0 \$962.656	<b>Ф</b> 7
Industrial & Manufacturing Sys Engg	\$431,706	\$873,950	\$431,774	\$863,656	\$7
Kansas Industrial Extension Service	\$924,189	\$4,434,261	\$1,283,777	\$1,359,975	\$6
Mechanical and Nuclear Engineering	\$2,787,676	\$3,378,903	\$1,866,639	\$3,376,890	\$3,5
National Gas Machinery Laboratory	\$467,783	\$208,012	\$96,110	\$125,667	\$
Nat'l Institute for Land Mgmt & Training	\$27,000	\$533,708	\$0	\$0	
College Totals	\$16,536,928	\$22,720,569	\$23,459,046	\$22,226,404	\$22,0
HUMAN ECOLOGY					
Dean of Human Ecology	\$318,516	\$355,627	\$2,757,068	\$320,913	\$4
Apparel, Textiles & Interior Design	\$6,119	\$40,303	\$0	\$74,499	\$
Human Nutrition	\$1,635,539	\$535,505	\$1,040,636	\$462,504	\$2,5
Hospitality Mgmt & Dietetics	\$3,500	\$218,058	\$15,204	\$2,282,480	\$1
School of Family Studies & Human Services	\$17,840,655	\$16,866,207	\$14,709,030	\$11,156,617	\$15,6
Extension Apparel, Textiles & Interior Design	\$0	\$0	\$0	\$0	
Extension Family & Consumer Sciences	\$3,343,958	\$3,129,135	\$0	\$591,157	\$2,3
Extension Human Nutrition	\$0	\$0	\$3,162,679	\$3,421,868	
Extension Nutrition Program	\$61,035	\$32,078	\$0	\$0	
Ext. Family Studies & Human Services	\$0	\$0	\$0	\$0	
College Totals	\$23,209,322	\$21,176,914	\$21,684,617	\$18,310,037	\$21,1
TECHNOLOGY AND AVIATION					
Dean, College of Technology	\$0	\$0	\$0	\$0	
Academic Services	\$0 \$0	\$0 \$580	\$0 \$0	\$0 \$0	
Salina Applied Aviation Research Center	\$50,000	\$496,321	\$2,965,110	\$20,389	
Camila Applica Analion Acocaton Center	\$30,000 \$0	\$490,321 \$0	\$8,500	\$4,500	
Salina Arts Science and Business		90	ψ0,000	φ-1,000	
Salina Arts, Science and Business			\$45 690	\$20.288	¢
Salina Arts, Science and Business Salina Aviation Engineering Technology	\$315,900 \$8,195	\$0 \$0	\$45,690 \$0	\$20,288 \$0	\$

	2008	2009	<u>2010</u>	<u>2011</u>	2012
VETERINARY MEDICINE					
Dean of Veterinary Medicine	\$2,636,770	\$205,880	\$142,790	\$177,879	\$287,167
Anatomy & Physiology	\$5,287,077	\$3,322,473	\$3,494,658	\$3,661,475	\$3,090,238
Clinical Sciences	\$1,452,056	\$1,225,367	\$1,640,051	\$2,019,718	\$1,219,405
Diagnostic Medicine/Pathobiology	\$3,358,103	\$8,778,701	\$10,833,620	\$11,253,396	\$8,882,207
Veterinary Diagnostic Laboratory	\$0	\$65,527	\$220,517	\$465,217	\$61,860
Veterinary Medical Teaching Hospital	\$14,000	\$19,900	\$19,000	\$23,800	\$22,405
College Totals	\$12,748,007	\$13,617,848	\$16,350,636	\$17,601,484	\$13,563,282
PRESIDENT					
Beach Art Museum	\$24,088	\$24.997	\$14,208	\$26,860	\$75.000
McCain Auditorium	\$11,088	\$481,045	\$347,358	\$430,286	\$0
Office of the President	\$2,000,000	\$0	\$2,100,000	\$0	\$1,500,000
Totals	\$2,035,176	\$506,042	\$2,461,566	\$457,146	\$1,575,000
PROVOST					
Office of the Provost	\$701,632	\$0	\$0	\$3,186,621	\$53,051
Assessment & Program Review	\$0	\$88,604	\$0 \$0	\$0	\$39,078
Center for Engagement, Community Development	\$126,223	\$168,935	\$168,385	\$93,415	\$471,045
Dean of Continuing Education	\$0	\$0	\$33,995	\$225,000	\$75,000
Dean of the Graduate School	\$0	\$42,000	\$58,152	\$183,048	\$295,157
International Programs	\$39,873	\$250,978	\$246,421	\$101,214	\$10,224
Kansas Center for Rural Initiatives	\$0	\$0	\$0	\$0	\$0
Library	\$35,000	\$10,500	\$46,479	\$14,589	\$750
Office of Diversity and Dual Career Dev.	\$0	\$0	\$31,714	\$34,022	\$35,002
Planning and Analysis	\$0	\$0	\$0	\$0	\$0
Regents Educational Communications Ctr.	\$0	\$0	\$0	\$0	\$0
School of Leadership Studies	\$0	\$92,645	\$247,954	\$149,637	\$180,314
Vice President for Communications and Marketing	\$0	\$0	\$0	\$249,000	\$0
Totals	\$902,728	\$653,662	\$833,100	\$4,236,546	\$1,159,621
V.P. ADMINISTRATION AND FINANCE Vice President for Administration and Finance Budget Office	\$0 \$0	\$0 \$0	\$583,507 \$11,748,086	\$0 \$0	\$0 \$0
KSU Police Department	<sub>40</sub> \$1,782	\$8,497	\$11,748,080 \$4,697	\$0 \$7,097	\$205,271
Public Safety	\$1,782	\$0,497 \$0	\$4,097 \$0	\$7,097 \$0	\$2,600,000
Physical Facilities	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000,000 \$0
Totals	\$1,782	\$8,497	\$12,336,290	\$7,097	\$2,805,271
V.P. INSTITUTIONAL ADVANCEMENT Department of Housing	\$125,522	\$0	\$0	\$0	\$0
Educational & Personal Development	\$2,331,199	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
KSU Child Development Center	\$281,521	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Office of Diversity & Dual Career Dev.	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
University Counseling Services	\$152,933	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Vice President for Institutional Advancement	\$221,253	\$0	\$0	\$0 \$0	\$0 \$0
Totals	\$3,112,428	\$0	\$0	\$0	\$0
V. P. ACADEMIC SERVICES & TECHNOLOGY	<b>*</b> 0	**	<b>*</b> ~	<b>*</b> ^	<b>^</b>
Vice President for Academic Serv. & Tech.	\$0	\$0	\$0	\$0 *	\$0
Dean of Continuing Education	\$26,702	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Regents Educational Communications Ctr. Regents Telenet	\$0 \$25-214	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Totals	<u>\$25,214</u> \$51,916	<u>\$0</u> \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0
VICE PRESIDENT FOR RESEARCH	<b>*</b> •	<b>*</b>	÷		±=
Vice President for Research	\$1,799,737	\$1,647,610	\$67,189	\$0	\$5,081,000
Vice President for Res. & Dean Grad of Sch.	\$40,500	\$0	\$0	\$0	\$0
Biosecurity Research Institute	\$0 \$0	\$1,000	\$0	\$340,842	\$752,521
K-State Olathe Innovation Campus	\$0	\$0	\$0	\$0	\$0
National Agricultural Biosecurity Center	\$4,065,000	\$14,652,588	\$2,160,791	\$6,028,149	\$812,000
Biotechnology Laboratory	\$82,618 \$218,212	\$70,948 \$100,120	\$52,037 \$165,865	\$50,005 \$222 802	\$57,054
Electronics Design Lab	\$218,212	\$199,139	\$165,865	\$233,893	\$330,790
Totals	\$6,206,066	\$16,571,285	\$2,445,882	\$6,652,888	\$7,033,365

	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>
V.P. FOR STUDENT LIFE AND DEAN OF STUD	DENTS				
Office of Vice President for Student Life	\$0	\$0	\$84,240	\$69,957	\$0
Department of Housing	\$0	\$200,522	\$0	\$0	\$0
Educational & Personal Development	\$0	\$1,123,191	\$2,542,353	\$1,635,762	\$1,288,752
KSU Child Development Center	\$0	\$372,118	\$86,165	\$129,420	\$310,126
Office of Diversity & Dual Career Dev.	\$0	\$34,238	\$0	\$0	\$0
University Counseling Services	\$0	\$100,463	\$37,400	\$37,000	\$37,000
Totals	\$0	\$1,830,531	\$2,750,158	\$1,872,139	\$1,635,878
UNIVERSITY TOTALS	\$117,957,312	\$133,650,574	\$147,695,867	\$124,626,067	\$137,445,396