

RESEARCH 2007

Kansas State University



In such a wide variety of subjects, such as
Zoology - such curious things here also
Education - still - also much
Impressive public speech
In Horticulture - Botany and the
Landscape Arts - and my, such
pretty flowers! - many sorts of
Illustrations - many sorts of
likenesses here maybe
In the Garden - Here ye budding
scribes and scribblers
In the Gym - maidens do learn to
Rock ye Cradle so that to Rule
ye World
In the Auditorium - Here to show
go for sundry reasons
In the Nichols Gymnasium for ye
agile athletes
In the shops - such industry here
displayed
In the Thompson Hall - Cafeteria
Here scientifications
In the Veterinary to ease animals
complaints and to determine their
causes
In the Bill Ball - Quarters for ye
Freshmen Quarters

Judge not this mappe with
over-hands severity lest ye be
encouraged to jump in ye
Leake



A Report of Research and Sponsored Programs
for Fiscal Year 2007



About the covers

Details from a hand-drawn, illustrated map of campus created in 1928 by prominent K-State artist Vida Harris at the request of Dean Margaret Justin.

In art and verse, Harris colorfully depicted campus and academic life of Kansas Agricultural College 80 years ago.

The Harris map has been reproduced as a limited edition silk twill scarf. Proceeds from its sales benefit K-State's Costume and Textile Museum, which is housed in the Department of Apparel, Textiles, and Interior Design, College of Human Ecology.

The museum is the largest collection of its kind in the Midwest and one of K-State's nine major collections. At present it contains more than 15,000 items: costumes, textiles, dolls, accessories, textile and apparel making implements, patterns, books, photos and other related objects.

Among the holdings are:

- Midwest and Native American costumes and textiles
- Military uniforms
- International/ethnic costumes and textiles
- Harris Ch'ing Dynasty collection
- Smithsonian Lace Collection
- High-fashion costumes from American and European designers
- Calvin Klein Collection
- Mayer Collection of Mantles for Women

Cover design by Bob Holcombe



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March 2008

Dear Colleagues,

Your continued excellent work yielded another banner year of extramural funding to the university! A snapshot of your steady and impressive funding gains appears as the graph on page 3.

In FY07, the total research base of the university reached \$219 million; of that, extramural awards account for \$114 million. It is worth noting that faculty submitted 1,435 proposals and received funding for 1,216 of them. That is an exceptionally high success rate in an extremely competitive funding arena.

Of note, it is important to remember that research is carefully regulated and compliance is a university priority. This is evidenced by the Provost's recent initiative for mandatory Export Controls training for all faculty and staff at KSU.

On another note, we've changed the presentation of new awards in this annual report—in order to clearly indicate the high level of the collaboration that's a central element of research here. Awards to faculty from different colleges and departments are listed with the funding share to each department noted.

Congratulations for a very productive year. Best wishes as you work on your creative and innovative research projects.

Sincerely,

R.W. Trewyn
Vice President for Research
President, KSU Research Foundation

**KANSAS STATE
UNIVERSITY
RESEARCH/SCHOLARLY ACTIVITY
FUNDING BASE**

Fiscal Year 2007

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. <u>SPONSORED</u>	<u>\$114,096,716</u>
II. <u>APPROPRIATED</u>	
Main Campus State Appropriation	\$2,961,093
Experiment Station Programs and Extension Services	
Federal Appropriation	\$8,812,823
State Appropriation	\$51,957,479
Veterinary Medical Center State Appropriation	\$527,154
<u>SUBTOTAL</u>	<u>\$64,258,549</u>
III. <u>DONATED*</u>	<u>\$40,730,482</u>
RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL	<u>\$219,085,747</u>

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

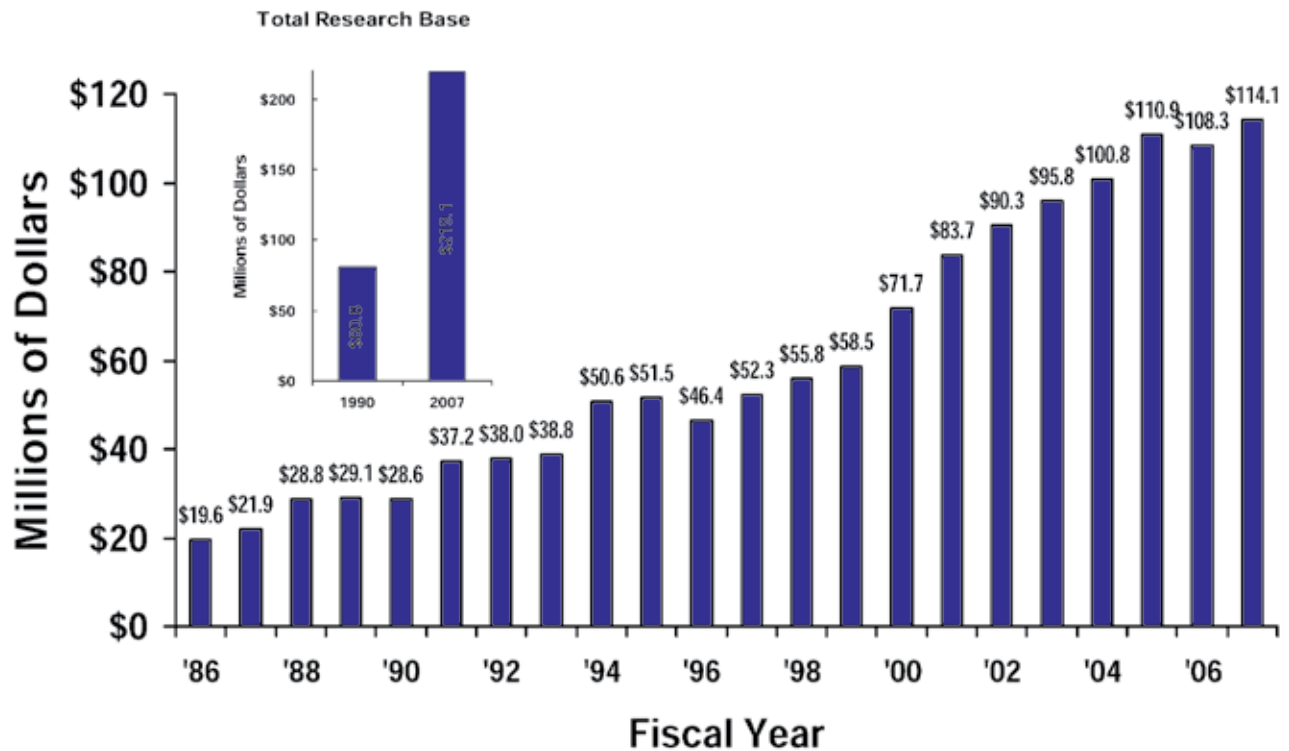
SECTION 1: AWARDS

KANSAS STATE UNIVERSITY SPONSORED RESEARCH FUNDING

Fiscal Years 1986–2007



Kansas State University Competitive Research Awards



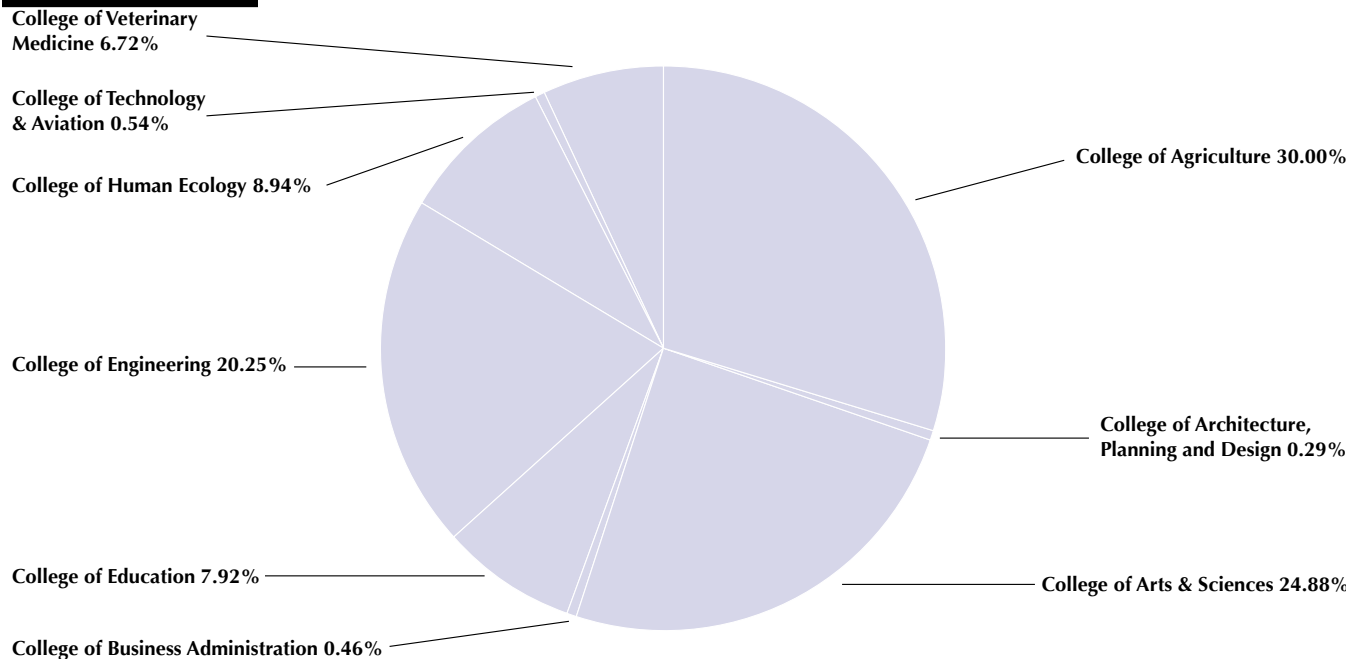
DISTRIBUTION OF NEW AWARDS AMONG COLLEGES AND OFFICES OF THE UNIVERSITY

Fiscal Year 2007

College/Office	Number of Awards	Dollar Value
College of Agriculture	471	29,222,394
College of Architecture, Planning and Design	5	286,471
College of Arts and Sciences	195	24,228,630
College of Business Administration	6	450,739
College of Education	44	7,709,083
College of Engineering	239	19,718,444
College of Human Ecology	58	8,710,649
College of Technology and Aviation	4	524,000
College of Veterinary Medicine	144	6,544,746
Office of the President	6	41,028
Office of the Provost	12	5,374,180
Vice President for Administration and Finance	0	0
Vice President for Institutional Advancement	11	2,028,149
Vice Provost for Academic Services and Technology	4	12,900
Vice Provost for Research and Dean of Graduate School	17	9,245,303
UNIVERSITY TOTALS	1216	\$114,096,716

AWARDS BY COLLEGE

Fiscal Year 2007



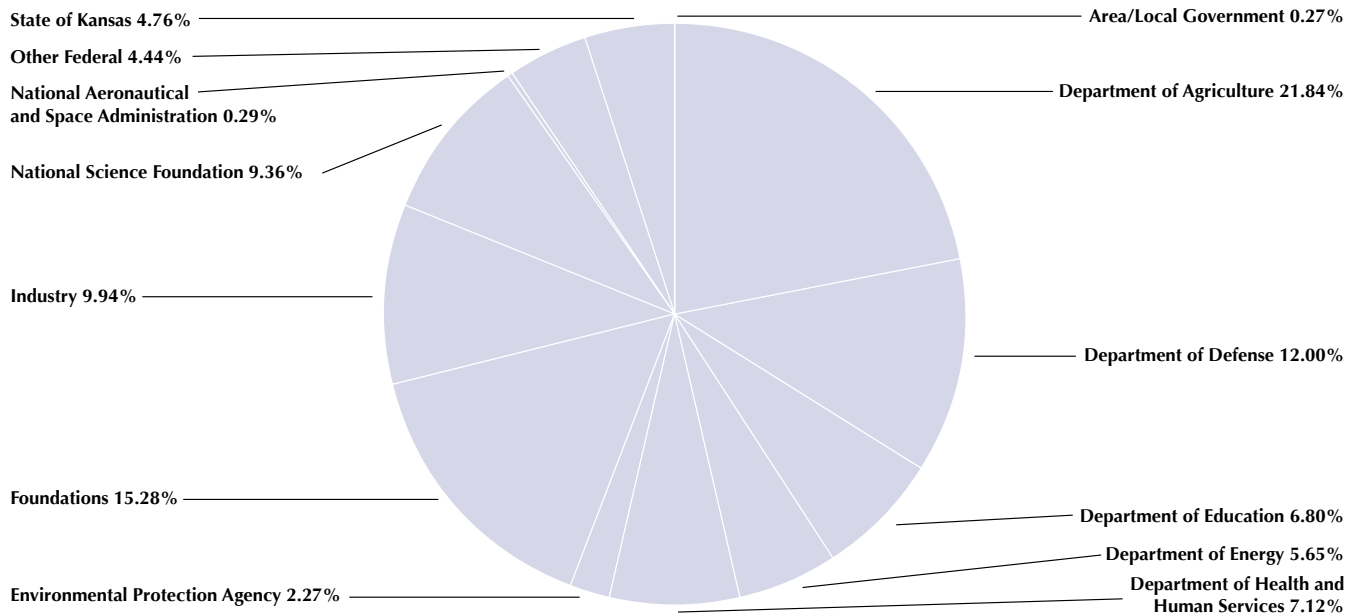
KANSAS STATE UNIVERSITY SOURCES OF AWARDS

Fiscal Year 2007

College/Office	Number of Awards	Dollar Value
Area/Local Government	18	\$311,666
Department of Agriculture	235	\$24,916,101
Department of Defense	39	\$13,686,426
Department of Education	27	\$7,753,515
Department of Energy	38	\$6,448,659
Department of Health and Human Services	63	\$8,120,447
Environmental Protection Agency	55	\$2,585,371
Foundations	247	\$17,436,538
Industry	273	\$11,336,536
National Science Foundation	61	\$10,683,949
National Aeronautics and Space Administration	11	\$326,428
Other Federal	82	\$5,063,302
State of Kansas	67	\$5,427,778
TOTAL	1216	\$114,096,716

SOURCES OF AWARDS

Fiscal Year 2007



EXTRAMURAL AWARDS

Fiscal Year 2007 (July 1, 2006–June 30, 2007)

NOTE FROM PREAWARDS SERVICES: While reviewing the FY07 Extramural Awards list, you might notice a different reporting format than what has been previously used. Beginning with the FY07 report, the funding for multi-PI projects will be 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 will result in multiple entries for numerous projects, however, only those funds allocated via the “reporting credit percentage” will appear for each PI/CO-PI in the 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 with no multiple reporting credit allocations indicated on the Sponsored Projects Transmittal Sheet, the total funding is allocated to the lead-PI and his/her respective department, and each Co-PI’s participation on the project is indicated with a notation in that Co-PI’s department to see Lead PI’s entry in their department list for complete award details.

We hope this method will better reflect the collaborative nature of each of the multi-PI projects and will detail the actual allocation of funds among the Project Participants and their respective departments and colleges.

COLLEGE OF AGRICULTURE AND K-STATE RESEARCH AND EXTENSION

AGRICULTURAL ECONOMICS

Amanor-Boadu, Vincent R., Kansas Wheat Commission, \$24,921, “Enhancing Commercialization Opportunities for Kansas Wheat: Investigation of Novel Intellectual Property Structures and Implementation Strategies.”

Amanor-Boadu, Vincent R., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

Amanor-Boadu, Vincent R., Pfromm, Peter H. (Chemical Engineering), **Chumley, Forrest G.** (Agricultural Experiment Station), **Madl, Ronald L.** (Grain Science and Industry), and **Nelson, Richard G.** (Kansas Industrial Extension Services), Koch Genesis LLC, \$16,118, “Bio-butanol: Technical and Economical Assessment.”

Barkley, Andrew P., Bowden, Robert L. (Plant Pathology), **Garrett, Karen A.** (Plant Pathology), **Peterson, Hikaru H.**, and **Shroyer, James P.** (Agronomy), Kansas Wheat Commission, \$11,000, “Improving Kansas Wheat Profitability through Variety Portfolios.”

Barnaby Jr., Glenn A., Mintert, James R., and Woolverton, Michael W., US Department of Agriculture, \$10,000, “Advanced Risk Management WEB Based Education on Livestock and Other Underserved Commodities via AgManager.Info.”

Barton, David G., Multisponsor, \$30,000, “Arthur Capper Cooperative Center.”

Boland, Michael A., US Department of Agriculture, \$129,960 (includes \$10,000 from North Dakota State University), “Agricultural Marketing Resource Center.”

Boland, Michael A., US Department of Agriculture, \$120,450, “USDA Agricultural Marketing Resource Center.”

Crespi, John M., (see **Peterson, Jeffrey M.**, Agricultural Economics).

Dhuyvetter, Kevin C., Golden, Billy B., Kastens, Terry, and **Peterson, Jeffrey M.**, US Department of Agriculture, \$698,952, “Research and Development of a Water Allocation Risk Analysis Tool (WARAT).”

Dhuyvetter, Kevin C., Blasi, Dale A. (Animal Sciences and Industry), and **Schroeder, Ted C.** (Agricultural Economics), US Department of Agriculture, \$46,973, “Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments.”

Dhuyvetter, Kevin C., (see **Mintert, James R.**, Agricultural Economics).

Dhuyvetter, Kevin C., (see **Roozeboom, Kraig L.**, Agronomy).

Golden, Billy B., and **Leatherman, John C.**, US Department of Agriculture, \$145,131, “Impact Analysis of the Wet Walnut Creek Intensive Groundwater Use Control Area.”

Golden, Billy B., (see **Dhuyvetter, Kevin C.**, Agricultural Economics).

Golden, Billy B., Hargrove, William L., (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$80,585, “New Water Management Technologies to Sustain Rural Economics - KSU.”

Golden, Billy B., (see **Peterson, Jeffrey M.**, Agricultural Economics).

Jones, Rodney D., (see **Fick, Walter H.**, Agronomy).

Kastens, Terry, (see **Dhuyvetter, Kevin C.**, Agricultural Economics).

Kastens, Terry, (see **Mengel, David B.**, Agronomy).

Kastens, Terry, (see **Peterson, Jeffrey M.**, Agricultural Economics).

Langemeier, Michael R., Nelson, Nathan O. (Agronomy), **Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Mankin, Kyle R.** (Biological and Agricultural Engineering), and **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), US Department of Agriculture, \$58,500, “Assessing the Impact of a Strategic Approach to Implementation of Conservation Practices.”

Langemeier, Michael R., (see **Zhu, Kun Yan**, Entomology).

Leatherman, John C., (see **Golden, Billy B.**, Agricultural Economics).

Leatherman, John C., US Environmental Protection Agency, \$48,000, “Upper Arkansas Basin WRAPS Development.”

Leatherman, John C., US Environmental Protection Agency, \$49,850, “Verdigris River WRAPS Support.”

Leatherman, John C., US Department of Agriculture, \$77,200 (includes \$18,000 from Solomon Valley R C & D), “Development of Rapid Watershed Assessments.”

Mintert, James R., and **Dhuyvetter, Kevin C.**, US Department of Agriculture, \$147,349, “Cattle Risk Management in Kansas for Today’s and Tomorrow’s Producers.”

Mankin, Kyle R., US Environmental Protection Agency, \$37,340, “Tuttle Creek Lake Watershed WRAPS Assessment.”

Mankin, Kyle R., US Environmental Protection Agency, \$32,460, "Milford Lake Watershed WRAPS Assessment."

Mankin, Kyle R., US Environmental Protection Agency, \$46,683, "Neosho River Watershed WRAPS Assessment."

Mintert, James R., (see **Barnaby Jr., Glenn A.**, Agricultural Economics).

Mintert, James R., (see **Schurle, Bryan W.**, Agricultural Economics).

Peterson, Hikaru H., US Department of Agriculture, \$44,470, "Market Risk Analysis for Organic Grain Farmers in the Great Plains."

Peterson, Hikaru H., (see **Barkley, Andrew P.**, Agricultural Economics).

Peterson, Jeffrey M., Crespi, John M., and Kastens, Terry, US Department of Agriculture, \$252,000, "Meeting National Needs for Scholars Trained in the Economics and Management of Water Resources and the Environment."

Peterson, Jeffrey M. and Golden, Billy B., Kansas Water Office, \$40,000, "Ground Water Modeling of the Ogallala Aquifer in Northwest Kansas."

Peterson, Jeffrey M. and Golden, Billy B., US Department of Agriculture, \$83,500, "Evaluation of Policy Options Aimed at Achieving a Reduction in Groundwater Consumption in Western Kansas."

Peterson, Jeffrey M., (see **Dhuyvetter, Kevin C.**, Agricultural Economics).

Peterson, Jeffrey M., Lamm, Freddie R. (Northwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$18,466, "Water Conservation - Increased Efficiency in Usage."

Schroeder, Ted C., Kansas Department of Commerce, \$30,000, "Economic Impact of Animal Tracking with Individual Animal Identification Systems at Feeder Cattle Auctions."

Schroeder, Ted C., (see **Blasi, Dale A.**, Animal Sciences and Industry).

Schroeder, Ted C., (see **Drouillard, James S.**, Animal Sciences and Industry).

Schurle, Bryan W. and Mintert, James R., Kansas Corn Commission, \$12,470, "Grain Marketing Research and Education in Support of Kansas Corn Producers."

Williams, Jeffery R., (see **Nelson, Richard G.**, Kansas Industrial Extension Services).

Woolverton, Michael W., (see **Barnaby Jr., Glenn A.**, Agricultural Economics).

AGRICULTURAL RESEARCH CENTER-HAYS

Aiken, Robert M., (see **Michaud, John P.**, Entomology).

Coyne, Patrick J., (see **Ham, Jay M.**, Agronomy).

Kofoid, Kenneth D., Kansas Grain Sorghum Commission, \$15,000, "Sorghum Research - Plot Combine."

Kofoid, Kenneth D., US Department of Agriculture, \$7,700, "Evaluating Photoperiod Sensitive Sorghum Germplasm for Pre- and Post- Flowering Drought Tolerance."

Kofoid, Kenneth D., Prasad, P. V. Vara (Agronomy), **Aiken, Robert M.** (Northwest Research Extension Center), and **Tuinstra, Mitchell R.**, Kansas Grain Sorghum Commission, \$5,750, "Screening Sorghum Germplasm for Drought and Heat Tolerance."

Martin, Terry J., Bockus, William W. (Plant Pathology), and **Seifers, Dallas L.**, Kansas Crop Improvement Association, \$6,860, "Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike."

Martin, Terry J., Harvey, Tom L. (Entomology), and **Seifers, Dallas L.**, Kansas Wheat Commission, \$79,560, "Kansas Dual Purpose Pest Resistant White Wheats."

Martin, Terry J., (see **Fritz, Allan K.**, Agronomy).

Martin, Terry J., Prasad, P. V. Vara (Agronomy), and **Fritz, Allan K.** (Agronomy), Kansas Crop Improvement Association, \$2,000, "Pre-Harvest Sprouting Resistance in Hard White Wheat."

Martin, Terry J., Prasad, P. V. Vara (Agronomy), and **Fritz, Allan K.** (Agronomy), Kansas Wheat Commission, \$2,200, "Sprout Resistance in Hard White Winter Wheat."

Martin, Terry J., (see **Seifers, Dallas L.**, Agricultural Research Center-Hays).

Martin, Terry J., (see **Stahlman, Phillip W.**, Agricultural Research Center-Hays).

Martin, Terry J., (see **Thompson, Carlyle A.**, Agricultural Research Center-Hays).

Seifers, Dallas L., and Martin, Terry J., Kansas Wheat Commission, \$25,000, "Replacement of Growth Chambers."

Seifers, Dallas L., (see **Martin, Terry J.**, Agricultural Research Center-Hays).

Seifers, Dallas L., (see **Whitfield, Anna E.**, Plant Pathology).

Stahlman, Phillip W., Kansas Sunflower Commission, \$5,130, "Crop-Weed Competition and Interaction between Imazamox and Soil Nitrogen on Palmer Amaranth Control in Sunflower."

Stahlman, Phillip W., Kansas Sunflower Commission, \$10,000, "Supplemental Funding in Support of an IPM Sunflower Project."

Stahlman, Phillip W., Multisponsor, \$133,625, "Weed Research."

Stahlman, Phillip W., and Martin, Terry J., US Department of Agriculture, \$10,000, "Clearfield(TM) Winter Wheat Risk Assessment."

Thompson, Carlyle A., and Martin, Terry J., Multisponsor, \$10,000, "Crop Culture."

AGRONOMY

Al-Khatib, Kassim, (see **Tuinstra, Mitchell R.**, Agronomy).

Claassen, Mark M., (see **Olson, Brian L.**, Northwest Area Office).

Claassen, Mark M., (see **Roozeboom, Kraig L.**, Agronomy).

Claassen, Mark M., (see **Tuinstra, Mitchell R.**, Agronomy).

Devlin, Daniel L., and Barden, Charles J. (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$88,945, "Heartland Integrated Water Quality Coordination Initiative."

Devlin, Daniel L., and Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), US Environmental Protection Agency, \$101,869, "Little Arkansas River WRAPS Implementation."

Devlin, Daniel L., (see **DeRouchey, Joel M.**, Animal Sciences and Industry).

- Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), US Environmental Protection Agency, \$136,500 (includes \$7,500 from Cooperator Support), "Implementing TMDLs in Kansas: Supporting WRAPS and Reducing Sediment, Nutrients and Bacteria in High Priority TMDL Watersheds."
- Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), US Environmental Protection Agency, \$36,105 (includes \$9,105 from project cooperators), "Kansas Watershed Restoration and Protection Strategy -- Kanopolis Watershed Restoration and Protection Strategy Implementation--Part 2."
- Devlin, Daniel L.**, (see **Nelson, Nathan O.**, Agronomy).
- Dille, Johanna A., Holman, Johnathon D.** (Southwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Roozeboom, Kraig L.**, and **Schlegel, Alan J.** (Southwest Research Extension Center), US Department of Agriculture, \$157,735, "Decision Matrix for Weed Management: Cover Crops, Palmer Amaranth Density, Water and Nitrogen." (2 awards)
- Eberle, William M.**, Kansas Department of Health and Environment, \$14,998, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."
- Fick, Walter H.**, Multisponsor, \$6,000, "Range and Pasture Brush and Weed Control."
- Fick, Walter H.**, and **Jones, Rodney D.** (Agricultural Economics), US Environmental Protection Agency, \$224,114, "Implementing TMDL's Using Water Quality Financial Analysis and Resource Evaluation (WQFARE) Program - Part 2."
- Fjell, Dale L.**, (see **Gordon, Walter B.**, Agronomy).
- Fritz, Allan K.**, Kansas Crop Improvement Association, \$8,000, "Development of Hard Winter Wheats with Tolerance to Heat and Drought."
- Fritz, Allan K.**, US Department of Agriculture, \$27,805, "Breeding for Resistance to Karnal Bunt in Kansas."
- Fritz, Allan K.**, US Department of Agriculture, \$72,262, "Wheat Applied Genomics."
- Fritz, Allan K.**, and **Fellers, John P.** (Plant Pathology), Kansas Wheat Commission, \$12,000, "Developing Multiple Pest Resistant Wheat Germplasm."
- Fritz, Allan K.**, and **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$115,580, "Improvement of Hard Red Winter Wheat for Kansas."
- Fritz, Allan K.**, (see **Bockus, William W.**, Plant Pathology).
- Fritz, Allan K.**, (see **Prasad, P. V. Vara**, Agronomy).
- Fritz, Allan K.**, (see **Trick, Harold N.**, Plant Pathology).
- Gordon, Walter B., Duncan, Stewart R.** (Northeast Area Office), and **Fjell, Dale L.**, Kansas Grain Sorghum Commission, \$6,500, "Management Systems for Grain Sorghum Production under Dryland and Limited Irrigated Conditions."
- Gordon, Walter B., Duncan, Stewart R.** (Northeast Area Office), and **Nelson, Nathan O.**, Kansas Soybean Commission, \$7,800, "Manganese Nutrition of Glyphosate-Resistant and Conventional Soybean."
- Gordon, Walter B., Maddux, Larry D., Marsh, Brian H.**, and **Pierzynski, Gary M.**, Multisponsor, \$58,500, "Soil Fertility and Soil Management Investigations."
- Gordon, Walter B.**, (see **Olson, Brian L.**, Northwest Area Office).
- Gordon, Walter B.**, (see **Roozeboom, Kraig L.**, Agronomy).
- Gordon, Walter B.**, (see **Tuinstra, Mitchell R.**, Agronomy).
- Ham, Jay M., Coyne, Patrick J.** (Agricultural Research Center-Hays), and **Owensby, Clenton E.**, US Department of Energy, \$63,800, "Net Ecosystem Carbon and Water Vapor Exchange of Tallgrass Prairie: Component Fluxes and Spatial Heterogeneity."
- Heer, William F.**, (see **Martin, Victor L.**, Agronomy).
- Heer, William F.**, (see **Roozeboom, Kraig L.**, Agronomy).
- Janssen, Keith A.**, Multisponsor, \$550, "Double-Crop Soybean Performance Tests - Agronomy."
- Janssen, Keith A.**, and **Kilgore, Gary L.** (Southeast Area Office), Kansas Grain Sorghum Commission, \$6,300, "Evaluation of Strip-Tillage for Grain Sorghum in Kansas."
- Janssen, Keith A.**, (see **Regehr, David L.**, Agronomy).
- Kirkham, Mary B.**, (see **Williams, Kimberly A.**, Horticulture, Forestry and Recreation Resources).
- Kluitenberg, Gerard J.**, (see **Mengel, David B.**, Agronomy).
- Kulakow, Peter A.**, Asian Development Bank, \$283,412, "Partnership on Persistent Organic Pollutants Pesticides Management for Agricultural Production in Central Asian Countries."
- Kulakow, Peter A.**, US Department of Agriculture, \$17,050, "Phytoremediation Associated Data and Information."
- Kulakow, Peter A., Erickson, Larry E.** (Center for Hazardous Substance Research), US Environmental Protection Agency, \$16,000, "Cooperative Agreement between US Environmental Protection Agency and Kansas State University to Provide Technical Support."
- Kulakow, Peter A., Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Agriculture, \$1,250, "The Future of Agriculture Science, Stewardship and Sustainability."
- Kulakow, Peter A.**, (see **Reddi, Lakshmi N.**, Civil Engineering).
- Lingenfelter, Jane E.**, (see **Roozeboom, Kraig L.**, Agronomy).
- Maddux, Larry D.**, (see **Mengel, David B.**, Agronomy).
- Maddux, Larry D.**, (see **Gordon, Walter B.**, Agronomy).
- Marsh, Brian H.**, (see **Gordon, Walter B.**, Agronomy).
- Martin, Victor L.**, and **Heer, William F.**, US Department of Agriculture, \$87,826, "Risk Management Assessment of Winter Canola Production Practices in Kansas."
- Mengel, David B.**, and **Maddux, Larry D.**, Deere & Company, \$135,000, "Crop Response to Shallow Placement of Anhydrous Ammonia in Corn (Zea Mays)."
- Mengel, David B.**, Kansas Grain Sorghum Commission, \$18,000, "Enhancing Sorghum Yield and Profitability through Nitrogen Management."
- Mengel, David B.**, Kansas Soybean Commission, \$7,500, "Correction of Potassium Deficiency in No-till and Strip-till Soybean Production."
- Mengel, David B., Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Kluitenberg, Gerard J., Maddux, Larry D., Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, Kansas Corn Commission, \$31,120, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."
- Mengel, David B.**, and **Stamm, Michael J.**, US Department of Agriculture, \$10,312, "National Canola Cultivar Development Program to Identify Adapted Canola Cultivars to Improve Efficiency and Grower Profitability."
- Mengel, David B.**, (see **Pierzynski, Gary M.**, Agronomy).
- Nelson, Nathan O.**, (see **Gordon, Walter B.**, Agronomy).

Nelson, Nathan O., Barnes, Philip L. (Biological and Agricultural Engineering), **Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Langemeier, Michael R.** (Agricultural Economics), **Mankin, Kyle R.** (Biological and Agricultural Engineering), and **Selva, Theresa L.** (Sociology, Anthropology, and Social Work), US Department of Agriculture, \$364,000, "Assessing the Impact of a Strategic Approach to Implementation of Conservation Practices."

Nelson, Nathan O., Carey, Edward E. (Horticulture, Forestry and Recreation Resources), **Cloyd, Raymond A.** (Entomology), **Janke, Rhonda R.** (Horticulture, Forestry and Recreation Resources), **Kennelly, Megan** (Plant Pathology), **Nechols, James R.** (Entomology), **Rajashekar, Channa B.** (Horticulture, Forestry and Recreation Resources), and **Williams, Kimberly A.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$50,070, "Effects of Organic Fertility Management on Crop Health and Phytochemical Content of Vegetables under Open Field and High Tunnel Production."

Owensby, Clenton E., (see **Ham, Jay M.**, Agronomy).

Peterson, Dallas E., Bayer Corporation, \$15,280, "Libertylink® Soybean Field Trial Agreement."

Pierzynski, Gary M., US Department of Agriculture, \$175,610, "Development of Abiotic Stress Resistant Wheat Germplasm."

Pierzynski, Gary M., US Department of Agriculture, \$202,374, "Facilitate Development of Abiotic Stress Resistant Wheat Germplasm."

Pierzynski, Gary M., US Department of Agriculture, \$127,950, "Wind Erosion Prediction System (WEPS) User Documentation, Tutorials and Training Materials."

Pierzynski, Gary M., and **Stamm, Michael J.**, Dow AgroSciences, \$2,880, "Winter Canola Replicated Yield Trial."

Pierzynski, Gary M., and **Stamm, Michael J.**, Kansas Crop Improvement Association, \$5,000, "Improving Shatter Resistance of Winter Canola."

Pierzynski, Gary M., (see **Gordon, Walter B.**, Agronomy).

Prasad, P. V. Vara, Aiken, Robert M. (Northwest Research Extension Center), **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), and **Tuinstra, Mitchell R.**, Kansas Grain Sorghum Commission, \$16,100, "Screening Sorghum Germplasm for Drought and Heat Tolerance."

Prasad, P. V. Vara, Fritz, Allan K., and **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Crop Improvement Association, \$8,000, "Pre-Harvest Sprouting Resistance in Hard White Wheat."

Prasad, P. V. Vara, Fritz, Allan K., and **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$8,800, "Sprout Resistance in Hard White Winter Wheat."

Prasad, P. V. Vara, Tuinstra, Mitchell R. (Agronomy), **Al-Khatib, Kassim, Claassen, Mark M.**, and **Gordon, Walter B.**, Kansas Grain Sorghum Commission, \$73,000, "Breeding Grain Sorghum for Improved Dryland Production."

Prasad, P. V. Vara. (see **Yu, Jianming**, Agronomy).

Ransom, Michel D., US Department of Agriculture, \$10,000, "Soil Laboratory Analysis to Support Soil Properties for Use in Determining How Soils Interpret for Various Uses."

Regehr, David L., and **Janssen, Keith A.**, Multisponsor, \$245,086, "Field Herbicidal Evaluations."

Regehr, David L., (see **Roozeboom, Kraig L.**, Agronomy).

Rice, Charles W., Robertson Foundation, \$1,000,000, "Consortium for Agricultural Soil Mitigation of Greenhouse Gases."

Rice, Charles W., US Agency for International Development, \$2,104, "Advanced Soil Carbon Instrumentation Experiment."

Rice, Charles W., US Department of Agriculture, \$427,659, "Nitrogen Management to Reduce N2O Emissions in No-Till Systems: Measurement and Modeling."

Rice, Charles W., (see **Nelson, Richard G.**, Kansas Industrial Extension Services).

Rice, Charles W., (see **Wang, Donghai**, Biological and Agricultural Engineering).

Roe, Judith L., (see **Welch, Stephen M.**, Agronomy).

Roozeboom, Kraig L., Multisponsor, \$946,102, "Crop Performance."

Roozeboom, Kraig L., Claassen, Mark M., Lingenfelter, Jane E., and **Regehr, David L.**, Kansas Grain Sorghum Commission, \$5,200, "Extension and Applied Research Programs for Kansas Grain Sorghum Production."

Roozeboom, Kraig L., Dhuyvetter, Kevin C. (Agricultural Economics), **Gordon, Walter B.**, and **Heer, William F.**, Kansas Corn Commission, \$7,900, "Extension and Applied Research Programs for Kansas Corn Production."

Roozeboom, Kraig L., (see **Dille, Johanna A.**, Agronomy).

Schapaugh Jr., William T., Kansas Crop Improvement Association, \$6,100, "Soybean Variety Development."

Schapaugh Jr., William T., North Central Soybean Research Program, \$11,848, "Breeding and Management Strategies for Overcoming Iron-deficiency Chlorosis in Soybeans."

Schapaugh Jr., William T., North Central Soybean Research Program, \$12,000, "Iron Deficiency Chlorosis (Breeding and Management Strategies for Overcoming Iron Deficiency Chlorosis in Soybeans)."

Schapaugh Jr., William T., Long Jr., James H. (Southeast Agricultural Research Center), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$143,000, "Soybean Variety and Germplasm Improvement."

Schapaugh Jr., William T., Buschman, Larry L. (Southwest Research Extension Center), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael** (Entomology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$3,000, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Schapaugh Jr., William T., Reese, John C. (Entomology), **Smith, C. Michael** (Entomology), and **Whitworth, Robert J.** (Entomology), North Central Soybean Research Program, \$2,243, "Soybean Aphid Management in the North Central States."

Shroyer, James P., Kansas Wheat Commission, \$4,000, "Wheat Production in Kansas: Extension and Applied Research."

Shroyer, James P., (see **Barkley, Andrew P.**, Agricultural Economics).

Staggenborg, Scott A., Kansas Grain Sorghum Commission, \$8,500, "Improving Understanding of the Mechanisms of Grain Sorghum Drought Tolerance."

Staggenborg, Scott A., Kansas Water Office, \$60,000, "Weather Stations."

Staggenborg, Scott A., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$107,446, "New Water Management Technologies to Sustain Rural Economics - KSU."

Staggenborg, Scott A., Wang, Donghai (Biological and Agricultural Engineering), **Rice, Charles W.** (Agronomy), and **Tuinstra, Mitchell R.** (Agronomy), Kansas Grain Sorghum Commission, \$12,000, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Stamm, Michael J., (see **Mengel, David B.**, Agronomy).

Stamm, Michael J., (see **Pierzynski, Gary M.**, Agronomy).

Stone, Loyd R., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute).

Stone, Loyd R., Lamm, Freddie R. (Northwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Peterson, Jeffrey M.** (Agricultural Economics), **Rogers, Danny H.** (Biological and Agricultural Engineering), US Department of Agriculture, \$12,995, "Water Conservation - Increased Efficiency in Usage."

Tuinstra, Mitchell R., US Department of Agriculture, \$5,000, "Increased Sorghum Cold Tolerance."

Tuinstra, Mitchell R., and **Chumley, Forrest G.** (Agricultural Experiment Station), US Department of Agriculture, \$680,226, "Great Plains Sorghum Improvement and Utilization Center."

Tuinstra, Mitchell R., and **Hancock, Joe D.** (Animal Sciences and Industry), US Agency for International Development, \$53,483, "Enhancing the Utilization of Grain Sorghum and Pearl Millet through the Improvement of Grain Quality via Genetic and Nutrition Research."

Tuinstra, Mitchell R., and **Prasad, P. V. Vara**, Monsanto Company, \$5,000, "Evaluation Project."

Tuinstra, Mitchell R., (see **Prasad, P. V. Vara**, Agronomy).

Tuinstra, Mitchell R., (see **Wang, Donghai**, Biological and Agricultural Engineering).

Tuinstra, Mitchell R., (see **White, Frank F.**, Plant Pathology).

Tuinstra, Mitchell R., (see **Yu, Jianming**, Agronomy).

Welch, Stephen M., Das, Sanjoy (Electrical and Computer Engineering), **Hsu, William H.** (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Roe, Judith L.**, National Science Foundation, \$264,049, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Yu, Jianming, US Department of Agriculture, \$140,000, "Genetic and Statistical Aspects of Association Mapping."

Yu, Jianming, Prasad, P. V. Vara, and **Tuinstra, Mitchell R.**, Kansas Grain Sorghum Commission, \$30,000, "Improving Drought Tolerance in Sorghum through Association Mapping."

Yu, Jianming, White, Frank F. (Plant Pathology), **Nelson, James C.** (Plant Pathology), and **Tuinstra, Mitchell R.** (Agronomy), Kansas State University, \$25,000, "Sorghum Translational Genomics Program: Mining Genomic Diversity for Sorghum Improvement."

ANIMAL SCIENCES AND INDUSTRY

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

Beyer, R. Scott, Environmental Care and Share, Inc., \$13,000, "Field Trial Testing for Environmental Care and Share on Commercial Broilers."

Beyer, R. Scott, Multisponsor, \$3,000, "KSU Poultry Research."

Beyer, R. Scott, US Department of Agriculture, \$31,462, "How Do Feed Manufacturing Parameters Affect Poultry Feed Quality in Automated Feeding Systems?"

Blasi, Dale A., US Department of Agriculture, \$67,000, "KSU Student Compensation on N.A.I.S."

Blasi, Dale A., US Department of Agriculture, \$56,452, "Modular Building For RFID Project Study."

Blasi, Dale A., Dhuyvetter, Kevin C. (Agricultural Economics), and **Schroeder, Ted C.** (Agricultural Economics), US Department of Agriculture, \$288,547, "Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments."

Blasi, Dale A., (see **Drouillard, James S.**, Animal Sciences and Industry).

Bormann, Jennifer M., US Department of Agriculture, \$9,840, "Genetic Analysis of Fatty Acid Composition of Beef and Milk - Developing Tools for Use in Selection."

Bormann, Jennifer M., Dikeman, Michael E., Marston, Twig T., and **Moser, Daniel W.**, American Angus Association, \$5,000, "Research Project."

Bormann, Jennifer M., (see **Moser, Daniel W.**, Animal Sciences and Industry).

Boyle, Elizabeth, Kansas Department of Commerce, \$16,880, "Value Added Meats Program for Kansas Companies and Entrepreneurs."

Brouk, Micheal J., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Golden, Billy B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$53,723, "New Water Management Technologies to Sustain Rural Economics - KSU."

Davis, Duane L., Coffman, James R. (Clinical Sciences), **Minton, J. Ernest, Troyer, Deryl L.** (Anatomy and Physiology), and **Weiss, Mark L.** (Anatomy and Physiology), Kansas State University, \$175,000, "Scientific Enhancement of the Midwest Institute for Comparative Stem Cell Biology."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/ Pathobiology), **Goodband, Robert D., Nelssen, Jim L.**, and **Tokach, Michael D.**, Concept Nutrition, Ltd, \$4,344, "Protein Source Evaluation for Nursery Pigs."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/ Pathobiology), **Goodband, Robert D., Nelssen, Jim L.**, and **Tokach, Michael D.**, National Pork Board, \$24,660, "Influence of Distillers Dried Grains with Solubles and Glycerol on Pig Performance and Composition of Fatty Acids in the Jowl, Backfat and Belly."

DeRouchey, Joel M., Devlin, Daniel L. (Agronomy), and **Harner III, Joseph P.** (Biological and Agricultural Engineering), US Environmental Protection Agency, \$90,000, "Producer Assistance for Understanding of Newly Required Nutrient Management Plans for Implementation and Regulatory Compliance."

DeRouchey, Joel M., (see **Goodband, Robert D.**, Animal Sciences and Industry).

DeRouchey, Joel M., (see **Nelssen, Jim L.**, Animal Sciences and Industry).

DeRouchey, Joel M., (see **Tokach, Michael D.**, Animal Sciences and Industry).

Dikeman, Michael E., Kansas Beef Council, \$39,554, "Determination of the Effects of Supplementing High Levels of Dietary Vitamin A on Marbling, Fatty Acid Profile, USDA Quality Grade, and Retail Display Life of Fresh Beef from Early- and Traditional- Weaned Calves."

- Dikeman, Michael E.**, National Cattlemen's Beef Association, \$10,000, "Exploring a New, Non-Invasive Mechanical Strategy for Tenderizing and Injecting Beef."
- Dikeman, Michael E.**, and **Hunt, Melvin C.**, Intervet, Inc., \$70,090, "Effects of Feeding Zilpaterol to Cattle on Tenderness and Retail Display Life of Meat."
- Dikeman, Michael E.**, (see **Bormann, Jennifer M.**, Animal Sciences and Industry).
- Dikeman, Michael E.**, (see **Drouillard, James S.**, Animal Sciences and Industry).
- Dikeman, Michael E.**, (see **Unruh, John A.**, Animal Sciences and Industry).
- Drouillard, James S.**, Eli Lilly & Company, \$110,000, "Evaluation of Optaflexx and Dietary Protein Source on Growth Performance and Carcass Characteristics of Feedlot Heifers - Feedlot Performance Profile and Serial Slaughter."
- Drouillard, James S.**, Kansas Soybean Commission, \$50,000, "Value-Added Uses for Soy-Based Biodiesel Byproducts in Feedlot Cattle."
- Drouillard, James S.**, Kansas State University Foundation, \$9,108, "Effect of Wet and Dry Distillers Grains on Performance of Beef Cattle."
- Drouillard, James S.**, National Cattlemen's Beef Association, \$24,378, "Characterizing Quality and Composition of Beef Derived from Cattle Fed Finishing Diets with or without Distiller's Grains."
- Drouillard, James S.**, and **Blasi, Dale A.**, US Department of Agriculture, \$32,000, "Effect of Wet and Dry Distiller's Grains on Performance of Beef Cattle."
- Drouillard, James S.**, **Dikeman, Michael E.**, and **Reinhardt, Christopher D.**, Kansas Beef Council, \$24,378, "Characterizing Quality and Composition of Beef Derived from Cattle Fed Finishing Diets with or without Distiller's Grains."
- Drouillard, James S.**, and **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), Kemira Phosphates Ltd., \$22,630, "Evaluation of Megasphaera elsdenii as a Competitive Inhibitor to Reduce Fecal Shedding of Escherichia coli O157 in Naturally Infected Cattle."
- Drouillard, James S.**, **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Kansas Beef Council, \$18,375, "Strategies to Address Adverse Effects of Distiller's Grain on Prevalence of E. coli O157:H7 in Feedlot Cattle."
- Drouillard, James S.**, and **Schroeder, Ted C.** (Agricultural Economics), Kansas Corn Commission, \$81,250, "Enhancing Ethanol Byproduct and Corn Usage Efficiency in Kansas Cattle Feeding."
- Drouillard, James S.**, (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).
- Fung, Daniel Y.C.**, US Department of Agriculture, \$60,000, "Nanoparticle-Based Fluorescent Inosensor for Rapid Detection of Listeria Monocytogenes in Foods."
- Fung, Daniel Y.C.**, **Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Phebus, Randall K.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Education, \$31,226, "North American Food Safety/Seguridad Alimentaria de Norte America (SANA)."
- Fung, Daniel Y.C.**, **Kastner, Curtis L.** (Food Science Institute), **Kropf, Donald H.** (Animal Sciences and Industry), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$153,048, "Animal Science Food Safety Consortium - Kansas State University."
- Goodband, Robert D.**, **DeRouchey, Joel M.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, Kansas Corn Commission, \$24,576, "Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality."
- Goodband, Robert D.**, (see **DeRouchey, Joel M.**, Animal Sciences and Industry).
- Goodband, Robert D.**, (see **Nelssen, Jim L.**, Animal Sciences and Industry).
- Goodband, Robert D.**, (see **Tokach, Michael D.**, Animal Sciences and Industry).
- Hancock, Joe D.**, and **Tuinstra, Mitchell R.** (Agronomy), US Agency for International Development, \$53,483, "Enhancing the Utilization of Grain Sorghum and Pearl Millet through the Improvement of Grain Quality via Genetic and Nutrition Research."
- Herald, Thomas J.**, (see **Aramouni, Fadi M.**, Animal Sciences and Industry).
- Hollis, Larry C.**, and **Coetzee, Johann F.** (Clinical Sciences), Intervet, Inc., \$36,000, "Needle-Free Injector--Anaplaz Transmission."
- Hunt, Melvin C.**, (see **Dikeman, Michael E.**, Animal Sciences and Industry).
- Hunt, Melvin C.**, (see **Unruh, John A.**, Animal Sciences and Industry).
- Johnson, Bradley J.**, American Feed Industry Association, \$10,000, "Effect of Cane Molasses on Absorptive Capacity of Rumen Papillae in Dairy Cows in Early and Late Lactation."
- Johnson, Bradley J.**, Kansas Beef Council, \$30,000, "Conversion of Muscle-Derived Cells from Beef Cattle to Adipocytes (fat cells) in a Cell Culture Model."
- Johnson, Bradley J.**, (see **Titgemeyer, Evan C.**, Animal Sciences and Industry).
- Kropf, Donald H.**, (see **Kastner, Curtis L.**, Food Science Institute).
- Lee, Charles D.**, Kansas Department of Wildlife and Parks, \$35,568, "Extension Education Position Support."
- Lee, Charles D.**, Liphatech, Inc., \$27,490, "Efficacy and Hazards of Rozol for Controlling Black-Tailed Prairie Dogs in Nebraska and Kansas."
- Lee, Charles D.**, US Department of the Interior, \$40,000, "Management of Habitat for Reintroduction of Black-Footed Ferrets."
- Lee, Charles D.**, US Department of Agriculture, \$1,000, "North Central Regional Aquaculture Center Extension Project."
- Marston, Twig T.**, (see **Bormann, Jennifer M.**, Animal Sciences and Industry).
- Marston, Twig T.**, (see **Unruh, John A.**, Animal Sciences and Industry).
- Minton, J. Ernest**, (see **Davis, Duane L.**, Animal Sciences and Industry).
- Minton, J. Ernest**, Land O'Lakes, Inc., \$50,000, "Endocrine Analyses for Land O'Lakes Purina Equine Studies."
- Minton, J. Ernest**, **Anderson, Gary A.** (Diagnostic Medicine/Pathobiology), **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), and **Robertson, Donald C.** (Diagnostic Medicine/Pathobiology), SODA Feed Ingredients, \$49,900, "Influence of RepaXol and AciXol on Growth Performance and Fecal Shedding of Weaned Pigs Challenged with E. coli."
- Moser, Daniel W.**, and **Bormann, Jennifer M.**, US Department of Agriculture, \$30,000, "National Beef Cattle Evaluation Consortium."
- Moser, Daniel W.**, (see **Bormann, Jennifer M.**, Animal Sciences and Industry).

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, GTx, Inc., \$24,090, "Effect of Selective Androgen Receptor Modulator's on Growth in Pigs."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Kansas Pork Association, \$20,000, "2007 Educational Events."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Kemin Americas, \$26,900, "Effects of Combining Chromium Propionate with Paylean on Growth Performance of Finishing Pigs Fed in a Commercial Production Facility."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Lonza, Inc., \$14,400, "Evaluation of LaraFeed Arabinogalactan as a Nutraceutical Growth Promoter in Starter Diets for Segregated, Early-Weaned Pigs."

Nelssen, Jim L., (see **DeRouchey, Joel M.**, Animal Sciences and Industry).

Nelssen, Jim L., (see **Goodband, Robert D.**, Animal Sciences and Industry).

Nelssen, Jim L., (see **Tokach, Michael D.**, Animal Sciences and Industry).

Nutsch, Abbey L., Getty, Kelly J. K. (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Retzlaff, Deanna D.** (Food Science Institute), US Department of Agriculture, \$120,000, "Development of a National Educational and Outreach Program for Food Safety and Food Defense."

Nutsch, Abbey L., Freeman, Lisa C. (Anatomy and Physiology), and **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), National Science Foundation, \$14,341, "Collaborative Research for Data-Driven Analysis of Interdisciplinary Research Teams."

Nutsch, Abbey L., (see **Phebus, Randall K.**, Animal Sciences and Industry).

Odde, Kenneth G., Kansas Beef Council, \$121,178, "Support of Regents Distinguished Professorship in Animal Sciences."

Olson, K. C., (see **Titgemeyer, Evan C.**, Animal Sciences and Industry).

Phebus, Randall K., Kastner, Justin J. (Diagnostic Medicine/Pathobiology), **Nutsch, Abbey L.**, and **Powell, Douglas A.** (Diagnostic Medicine/Pathobiology), American Meat Institute Foundation, \$47,500, "Beyond Intent: Assessment and Validation of On-Package Handling and Cooking Instructions for Uncooked, Breaded Poultry Products to Promote Consumer Practices that Reduce Foodborne Illness Risks."

Phebus, Randall K., (see **Getty, Kelly J. K.**, Food Science Institute).

Phebus, Randall K., (see **Vanier, Martha A.**, National Agricultural Biosecurity Center).

Reinhardt, Christopher D., (see **Drouillard, James S.**, Animal Sciences and Industry).

Reinhardt, Christopher D., (see **Thomson, Daniel U.**, Clinical Sciences).

Retzlaff, Deanna D., (see **Thomson, Daniel U.**, Clinical Sciences).

Smith, J. Scott, Mitsubishi-Kagaku Foods Corporation, \$9,112, "Evaluate the Inhibition of Heterocyclic Amines (HCAs) by the Rosemary Extracts from MFC."

Smith, J. Scott, (see **Kastner, Curtis L.**, Food Science Institute).

Stevenson, Jeffrey S., Pfizer Inc., \$14,000, "Exploratory Use of the CIDR Insert in Lactating Dairy Cows."

Stevenson, Jeffrey S., Select Sires, \$15,000, "Use of hCG and Resynch Timed AI Options for Dairy and Beef Producers without Employing Detection of Estrus."

Swanson, Janice C., and **Schermerhorn, Thomas** (Clinical Sciences), Ceva Sante Animale, \$14,666, "Dog Appeasing Pheromone: A Potential Treatment for Canine Thunderstorm Phobia - Kari D. Wallentine."

Titgemeyer, Evan C., and **Johnson, Bradley J.**, Elanco Animal Health, \$90,000, "Effects of Ractopamine-HCl on Protein Synthesis and Degradation in Finishing Cattle."

Titgemeyer, Evan C., and **Olson, K. C.**, US Department of Agriculture, \$349,957, "Quantification of Urea Kinetics in Beef Cattle."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Biomin USA, Inc., \$10,000, "Effect of PEP on Nursery Pig Performance."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, SEM Minerals, L.P., \$10,000, "Effect of Natuzyme on Nursery Pig Performance."

Tokach, Michael D., (see **DeRouchey, Joel M.**, Animal Sciences and Industry).

Tokach, Michael D., (see **Goodband, Robert D.**, Animal Sciences and Industry).

Tokach, Michael D., (see **Nelssen, Jim L.**, Animal Sciences and Industry).

Unruh, John A., Dikeman, Michael E., Hunt, Melvin C., and **Marston, Twig T.**, National Cattlemen's Beef Association, \$54,150, "Use of an Aggressive Implant and Zilpaterol to Improve the Yield and Value of Realimentated Cull Cow Carcasses and to Characterize Longissimus and Quadriceps Muscles."

COMMUNICATIONS

Baldwin, Will G., and **Stack, James P.** (Plant Pathology), US Department of Agriculture, \$174,000, "Plant Diagnostic Center Laboratories for Plant Disease and Pest Diagnosis and Surveillance (Great Plains Diagnostic Network: Protecting Agriculture in America's Heartland)."

Snyder, Gerry, (see **Remig, Valentina M.**, Human Nutrition).

Terry, Roger V., US Department of Agriculture, \$3,500, "CYFERNet Technology."

COLLEGE OF AGRICULTURE AND AGRICULTURAL EXPERIMENT STATION

Chumley, Forrest G., (see **Phillips, Thomas W.**, Entomology).

Chumley, Forrest G., (see **Pfromm, Peter H.**, Chemical Engineering).

Chumley, Forrest G., (see **Tuinstra, Mitchell R.**, Agronomy).

Knapp, Mary C., (see **Welch, Stephen M.**, Agronomy).

Ricketts, Mitchell S., Carey, Edward E. (Horticulture, Forestry and Recreation Resources), **St. John, Rodney A.** (Horticulture, Forestry and Recreation Resources), and **Stevens, Alan B.** (Horticulture, Forestry and Recreation Resources), US Department of Labor, \$127,079, "Occupational Safety and Health Training for Landscape and Horticulture Services."

Wilson, Ron J., Kansas Agriculture and Rural Leadership, Inc., \$19,275, "Secretarial Support - Huck Boyd National Institute for Rural Development."

ENTOMOLOGY

Beeman, Richard W., (see **Brown, Susan J.**, Biology).

Beeman, Richard W., Muthukrishnan, Subbarat (Biochemistry), **Arakane, Yasuyuki** (Biochemistry), **Kanost, Michael R.** (Biochemistry), and **Kramer, Karl J.** (Biochemistry), National Science Foundation, \$121,510, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Beeman, Richard W., (see **Park, Yoonseong**, Entomology).

Broce, Alberto B., and **Zurek, Ludek**, Multisponsor, \$41,671, "Methods for Control of Livestock Insects."

Broce, Alberto B., (see **Maghirang, Ronaldo G.**, Biological and Agricultural Engineering).

Buschman, Larry L., Monsanto Company, \$6,300, "Service Order."

Buschman, Larry L., Multisponsor, \$2,000, "Insecticide Management of Field Crop Insects in Southwestern Kansas."

Chen, Ming-Shun, (see **Nechols, James R.**, Entomology).

Chumley, Forrest G., US Department of Agriculture, \$11,512, "USDA/ARS Research Support Agreement Task Order."

Cloyd, Raymond A., American Floral Endowment, \$20,000, "Effect of Silicon Applications on the Reproduction and Development of Arthropod Pests Feeding on Horticultural Crops."

Cloyd, Raymond A., Fred C. Gloeckner Foundation, Inc., \$12,000, "Effect of Extracts Derived from Organic Growing Medium Components in Controlling Fungus Gnats, *Bradysia* spp. (Diptera: Sciaridae) in Greenhouses."

Cloyd, Raymond A., National Foliage Foundation, \$2,000, "Effect of Systemic Insecticides on the Brown Soft Scale, *Coccus hesperidum*."

Cloyd, Raymond A., Ohio Floriculture Association, \$5,200, "Ohio Floriculture Association Fellowship."

Cloyd, Raymond A., (see **Carey, Edward E.**, Horticulture, Forestry and Recreation Resources).

Cloyd, Raymond A., (see **Wilde, Gerald E.**, Entomology).

Dobesh, Sharon, US Department of Agriculture, \$168,608, "Integrated Pest Management (Formula Funds)."

Dobesh, Sharon, US Department of Agriculture, \$224,648, "Pesticide Safety Education Program."

Dobesh, Sharon, and **Nechols, James R.**, BASF Corporation, \$500, "Efficacy of Termidor (Fipronil 0.06%) for Subterranean Termite Control in Kansas When Applied as an Exterior Perimeter/Localized Interior Treatment."

Harvey, Tom L., Martin, Terry J. (Agricultural Research Center-Hays), and **Seifers, Dallas L.**, Kansas Wheat Commission, \$14,040, "Kansas Dual Purpose Pest Resistant White Wheats."

Holt, Kiffnie, (see **Nechols, James R.**, Entomology).

Michaud, John P., National Sunflower Association, \$5,100, "Mitigation of Yield Losses to *Dectes texanus*."

Michaud, John P., and **Aiken, Robert M.** (Agricultural Research Center-Hays), Kansas Sunflower Commission, \$8,000, "Sunflower Resistance to Sunflower Stem Weevil as a Function of Limited Irrigation."

Nechols, James R., US Department of Agriculture, \$117,000, "Evaluation of the Impact of Fumigation on Stored-Product Insect Populations in Flour Mills."

Nechols, James R., US Department of Agriculture, \$55,000, "Facilitate Multiple Pest Resistant Wheat Germplasm Research."

Nechols, James R., and **Chen, Ming-Shun**, US Department of Agriculture, \$24,086, "Phenotypic Analysis of Grass Resistance Genes and Hessian Fly Avirulence Genes."

Nechols, James R., and **Chen, Ming-Shun**, US Department of Agriculture, \$22,144, "USDA/ARS Research Support Agreement."

Nechols, James R., and **Holt, Kiffnie**, Manhattan Convention and Visitors Bureau, \$1,019, "Insect Zoo Publicity Brochures."

Nechols, James R., (see **Carey, Edward E.**, Horticulture, Forestry and Recreation Resources).

Nechols, James R., (see **Dobesh, Sharon**, Entomology).

Park, Yoonseong, US Department of Agriculture, \$5,000, "Digestive and Immune-Related Components of the *Tribolium* Gut Transcriptome."

Park, Yoonseong, and **Beeman, Richard W.**, US Department of Agriculture, \$492,000, "Neuroendocrine Control of Excretion in *Tribolium Castaneum*."

Phillips, Thomas W., and **Chumley, Forrest G.** (Agricultural Experiment Station), US Department of Agriculture, \$18,582, "USDA/ARS Research Support Agreement."

Reese, John C., Schapaugh Jr., William T. (Agronomy), **Smith, C. Michael**, and **Whitworth, Robert J.**, North Central Soybean Research Program, \$42,617, "Soybean Aphid Management in the North Central States."

Reese, John C., (see **Wilde, Gerald E.**, Entomology).

Sloderbeck, Phillip E., (see **Wilde, Gerald E.**, Entomology).

Smith, C. Michael, US Department of Agriculture, \$433,880, "Improved Management of Russian Wheat Aphids in Barley by Integration of Biological and Cultural Controls with Aphid-Resistant Cultivars."

Smith, C. Michael, US Department of Agriculture, \$30,552, "Mapping and Cloning of Genes Controlling Insect Resistance in Barley."

Smith, C. Michael, (see **Buschman, Larry L.**, Southwest Research Extension Center).

Smith, C. Michael, (see **Reese, John C.**, Entomology).

Smith, C. Michael, (see **Wilde, Gerald E.**, Entomology).

Whitworth, Robert J., Syngenta Corporation, \$3,650, "Corn Rootworm Control and Yield Performance in Late Maturity Field Corn."

Whitworth, Robert J., Syngenta Corporation, \$10,220, "Opportunity Trial: Corn Earworm and Black Cutworm Efficacy on Field Corn."

Whitworth, Robert J., (see **Reese, John C.**, Entomology).

Whitworth, Robert J., (see **Wilde, Gerald E.**, Entomology).

Wilde, Gerald E., Cloyd, Raymond A., Reese, John C., and **Whitworth, Robert J.**, Multisponsor, \$135,150, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Wilde, Gerald E., Sloderbeck, Phillip E., and **Smith, C. Michael**, US Department of Agriculture, \$25,000, "Areawide Pest Management Program for Russian Wheat Aphid and Greenbug: Kansas."

Zhu, Kun Yan, and **Langemeier, Michael R.** (Agricultural Economics), US Department of Agriculture, \$369,181, "Aerosol Applications as a Methyl Bromide Alternative for Milling, Processing, and Food Storage."

Zolnerowich, Gregory, Allen, David B. (Library), **Ferguson, Carolyn J.** (Biology), and **Haddock, Michael J.** (Library), Kansas State University, \$320,000, "K-State Digital Prairie Plant and Insect Collection: Elevating Biodiversity and Bioinformatics to the Next Level."

Zurek, Ludek, (see **Broce, Alberto B.**, Entomology).

Zurek, Ludek, (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

FOOD SCIENCE INSTITUTE

Getty, Kelly J. K., Fung, Daniel Y.C. (Animal Sciences and Industry), **Kastner, Curtis L., Phebus, Randall K.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Education, \$31,226, "North American Food Safety/Seguridad Alimentaria de Norte America (SANA)."

Getty, Kelly J. K., Kastner, Curtis L., Kastner, Justin J. (Diagnostic Medicine/Pathobiology), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.**, US Department of Agriculture, \$20,000, "Development of a National Educational and Outreach Program for Food Safety and Food Defense."

Kastner, Curtis L., Fung, Daniel Y.C. (Animal Sciences and Industry), **Kropf, Donald H.** (Animal Sciences and Industry), and **Smith, J. Scott** (Animal Sciences and Industry), US Department of Agriculture, \$153,048, "Animal Science Food Safety Consortium - Kansas State University."

Kastner, Curtis L., (see **Getty, Kelly J. K.**, Food Science Institute).

Retzlaff, Deanna D., (see **Getty, Kelly J. K.**, Food Science Institute).

GRAIN SCIENCE AND INDUSTRY

Alavi, Sajid, Faubion, Jon M., Lamsal, Buddhi P., and Madl, Ronald L., Kansas Wheat Commission, \$36,823, "Investigation of Wheat Cellulosic Material as Feedstock for Bioenergy and Biomaterials."

Bhadriraju, Subramanyam, Multisponsor, \$33,000, "Grain Science."

Bhadriraju, Subramanyam, US Department of Agriculture, \$90,688, "Effects of Flameless Catalytic Infrared Heat on Stored Wheat Insects and Wheat Quality."

Chumley, Forrest G., US Department of Agriculture, \$8,027, "USDA/ARS Research Support Agreement."

Faubion, Jon M., (see **Alavi, Sajid**, Grain Science and Industry).

Gwartz, Jeffrey A., US Department of Agriculture, \$20,000, "Impact of Single Kernel and Bulk Sample Properties on Milling Yield and Economics."

Howard, John E., Kansas Corn Commission, \$50,000, "Market Development Grant - International Grains Program."

Howard, John E., Kansas Wheat Commission, \$324,820, "Market Development Grant - International Grains Program Support Project."

Howard, John E., Nebraska Wheat Board, \$15,000, "International Grains Program Wheat Advisory Board."

Lamsal, Buddhi P., (see **Alavi, Sajid**, Grain Science and Industry).

Madl, Ronald L., Abengoa Bioenergy R&D, Inc., \$103,000, "Protein Content Enhancement of DG: Microbial Adaptation and Pilot Plant Studies."

Madl, Ronald L., US Department of Agriculture, \$29,982, "Delivery of Antioxidants with Cancer-Suppressing Properties in Egyptian and American Baked Goods."

Madl, Ronald L., Nelson, Richard G. (Kansas Industrial Extension Services), and **Rezac, Mary E.** (Chemical Engineering), Kansas State University, \$375,000, "Kansas State University Center for Sustainable Energy."

Madl, Ronald L., (see **Alavi, Sajid**, Grain Science and Industry).

Madl, Ronald L., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

Madl, Ronald L., Pfromm, Peter H. (Chemical Engineering), **Amanor-Boadu** (Chemical Engineering), **Vincent R.** (Agricultural Economics), **Chumley, Forrest G.** (Agricultural Experiment Station), and **Nelson, Richard G.** (Kansas Industrial Extension Services), Koch Genesis LLC, \$16,118, "Bio-butanol: Technical and Economical Assessment."

McFall, Kendall L., Washington Wheat Commission, \$6,000, "Memorandum of Understanding."

McKinney, Leland, and **Miller, Rebecca**, Kansas Wheat Commission, \$97,465, "Kansas Wheat Quality Laboratory: Quality Evaluation from KAES Wheat Breeding Programs and Protein/Hardness Screening of Early Progeny Wheat."

Miller, Rebecca, (see **McKinney, Leland**, Grain Science and Industry).

Shi, Yong Cheng, National Starch and Chemical Company, \$272,262, "Starch Research."

Shi, Yong Cheng, US Department of Agriculture, \$139,000, "Development of Rapid and Objective Methods for Hard Winter Wheat Quality Testing."

Sun, X. Susan, Hill's Pet Nutrition, Inc., \$27,708, "Development of Cold Pellet Processing Technology."

Sun, X. Susan, US Department of Agriculture, \$96,000, "Development of Cost Effective and Performance Enhanced Soy Protein Based Plastics through a Ternary Polymer Blend System."

Sun, X. Susan, US Department of Agriculture, \$60,093, "Poly (Lactic Acid)/Starch Blend for a Degradable Agricultural Mulch Film."

Sun, X. Susan, US Department of Defense, \$42,900, "Scale-Up Processing of Soy Adhesives for Low Density Chemical Free Biodegradable Fiber Cardboard."

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), Fosco International Limited, \$72,131, "Soy-Based Binders."

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Defense, \$32,123, "On-Demand Subzero Ration Components for Use in Extreme Cold Environments that Do Not Hard Freeze and Heat Faster for Field Consumption."

Sun, X. Susan, Wang, Donghai (Biological and Agricultural Engineering), and **Zhong, Zhikai**, US Department of Defense, \$70,000, "Biodegradable Lightweight Fiberboard for Packaging Applications."

Sun, X. Susan, and **Zhang, Jian-Feng**, US Department of Energy, \$40,000, "Bio-Nanocomposites Derived from Renewable Materials."

Zhang, Jian-Feng, (see **Sun, X. Susan**, Grain Science and Industry).

Zhong, Zhikai, (see **Sun, X. Susan**, Grain Science and Industry).

HORTICULTURE, FORESTRY AND RECREATION RESOURCES

Barden, Charles J., and **Devlin, Daniel L.** (Agronomy), US Department of Agriculture, \$22,236, "Heartland Integrated Water Quality Coordination Initiative."

Barden, Charles J., US Department of Agriculture, \$51,265, "Streambank Stabilization and Restoration Practices in the Big Soldier Creek Watershed."

Bremer, Dale J., International Turf Producers Foundation, \$5,000, "Comparative Irrigation Requirements of 30 Cultivars of Kentucky Bluegrass Under a Large Rainout Facility in the Transition Zone."

Bremer, Dale J., Fry, Jack D., and Keeley, Steven J., US Golf Association, \$47,058, "Comparative Irrigation Requirements of 30 Cultivars of Kentucky Bluegrasses Under a Large Rainout Facility in the Transition Zone."

Bremer, Dale J., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Carey, Edward E., Organic Center, \$13,759, "State of Science Review Grant -Two."

Carey, Edward E., US Department of Agriculture, \$10,000, "Opportunities in Organic Sweet Potato Production."

Carey, Edward E., US Department of Agriculture, \$10,000, "Optimized Compost Tea (Extract) Recipe for Control of Foliar Fungal Diseases on Tomato - Marlin Bates."

Carey, Edward E., Cloyd, Raymond A. (Entomology), **Janke, Rhonda R., Kennelly, Megan** (Plant Pathology), **Nechols, James R.** (Entomology), **Nelson, Nathan O.** (Agronomy), **Rajashekar, Channa B.**, and **Williams, Kimberly A.**, US Department of Agriculture, \$300,419, "Effects of Organic Fertility Management on Crop Health and Phytochemical Content of Vegetables under Open Field and High Tunnel Production."

Carey, Edward E., Ricketts, Mitchell S. (Agricultural Experiment Station), **St. John, Rodney A.** (Horticulture, Forestry and Recreation Resources), and **Stevens, Alan B.** (Horticulture, Forestry and Recreation Resources), US Department of Labor, \$31,770, "Occupational Safety and Health Training for Landscape and Horticulture Services."

Fagerness, Matthew J., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Fry, Jack D., Bremer, Dale J., Fagerness, Matthew J., Griffin, Jason, and **Keeley, Steven J.**, Multisponsor, \$74,500, "Turfgrass Investigations."

Fry, Jack D., Fagerness, Matthew J., and Keeley, Steven J., National Turfgrass Federation, \$22,800, "Turfgrass Testing."

Fry, Jack D., (see **Bremer, Dale J.**, Horticulture, Forestry and Recreation Resources).

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

Griffin, Jason, (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Janke, Rhonda R., (see **Carey, Edward E.**, Horticulture, Forestry and Recreation Resources).

Keeley, Steven J., (see **Bremer, Dale J.**, Horticulture, Forestry and Recreation Resources).

Keeley, Steven J., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Rajashekar, Channa B., (see **Carey, Edward E.**, Horticulture, Forestry and Recreation Resources).

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

Reid, William R., University of Missouri, \$8,482, "Missouri Pecan Growers."

Reid, William R., US Department of Agriculture, \$22,094, "Nut Tree Productions Management and Cultivar Improvement for Northern Pecan and Black Walnut."

St. John, Rodney A., (see **Ricketts, Mitchell S.**, Agricultural Experiment Station).

Stevens, Alan B., (see **Ricketts, Mitchell S.**, Agricultural Experiment Station).

Williams, Kimberly A., and Kirkham, Mary B. (Agronomy), Fred C. Gloeckner Foundation, Inc., \$10,000, "Understanding Edema on Ivy Geranium: Interactions between Irrigation Practices and Environmental Conditions - Is Conventional Wisdom Correct?"

Williams, Kimberly A., (see **Carey, Edward E.**, Horticulture, Forestry and Recreation Resources).

KANSAS CENTER FOR AGRICULTURE RESOURCES AND THE ENVIRONMENT/ KANSAS WATER RESOURCES RESEARCH INSTITUTE

Beckman, Jana J., (see **Murphy, James P.**, Agriculture and Natural Resources).

Hargrove, William L., US Department of Agriculture, \$115,800 (includes \$27,000 from Solomon Valley RC&D), "Development of Rapid Watershed Assessments."

Hargrove, William L., US Department of the Interior, \$174,446 (includes \$82,111 from the University of Kansas), "Kansas Water Resources Research Institute."

Hargrove, William L., US Environmental Protection Agency, \$175,000 (includes \$25,000 from Cooperator Support), "Water Quality Improvement through Service Learning -- Part 2."

Hargrove, William L., and Devlin, Daniel L. (Agronomy), US Environmental Protection Agency, \$318,500 (includes \$17,500 from Cooperator Support), "Implementing TMDLs in Kansas: Supporting WRAPS and Reducing Sediment, Nutrients and Bacteria in High Priority TMDL Watersheds."

Hargrove, William L., and Devlin, Daniel L. (Agronomy), US Environmental Protection Agency, \$180,522 (includes \$45,523 from Project Cooperators), "Kansas Watershed Restoration and Protection Strategy -- Kanopolis Watershed Restoration and Protection Strategy Implementation--Part 2."

Hargrove, William L., and Mankin, Kyle R. (Biological and Agricultural Engineering), Kansas Water Office, \$36,500, "Watershed and Riparian Assessment for John Redmond Reservoir."

Hargrove, William L., (see **Devlin, Daniel L.**, Agronomy).

Hargrove, William L., (see **Goodin, Douglas G.**, Geography).

Hargrove, William L., (see **Maghirang, Ronaldo G.**, Biological and Agricultural Engineering).

Hargrove, William L., Maghirang, Ronaldo G. (Biological and Agricultural Engineering), and **Harner III, Joseph P.** (Biological and Agricultural Engineering), US Department of Agriculture, \$24,969, "Impacts of Water Sprinkler Systems on Air Quality at Cattle Feedlots."

Hargrove, William L., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Hargrove, William L., Nelson, Nathan O. (Agronomy), **Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L., Langemeier, Michael R.** (Agricultural Economics), **Mankin, Kyle R.** (Biological and Agricultural Engineering), and **Selva, Theresa L.** (Sociology, Anthropology, and Social Work), US Department of Agriculture, \$19,500, "Assessing the Impact of a Strategic Approach to Implementation of Conservation Practices."

Hargrove, William L., and Mankin, Kyle R. (Biological and Agricultural Engineering), US Environmental Protection Agency, \$9,347, "Tuttle Creek Lake Watershed WRAPS Assessment."

Hargrove, William L., and Mankin, Kyle R. (Biological and Agricultural Engineering), US Environmental Protection Agency, \$8,115, "Milford Lake Watershed WRAPS Assessment."

Hargrove, William L., and Mankin, Kyle R. (Biological and Agricultural Engineering), US Environmental Protection Agency, \$12,932 "Neosho River Watershed WRAPS Assessment."

Hargrove, William L., and **Mankin, Kyle R.** (Biological and Agricultural Engineering), Kansas Department of Health and Environment, \$8,250, "Pomono Lake Assessment Support."

Hargrove, William L., and **Mankin, Kyle R.** (Biological and Agricultural Engineering), Kansas Department of Health and Environment, \$6,800, "Kansas Watershed Restoration and Protection Strategy - Elk City Lake Watershed Assessment Project."

Hargrove, William L., **Mankin, Kyle R.** (Biological and Agricultural Engineering), and **Barnes, Philip L.** (Biological and Agricultural Engineering), Kansas Department of Health and Environment, \$6,800, "Kansas Watershed Restoration and Protection Strategy - Upper Verdigris/Toronto Lake Watershed Assessment."

NORTHWEST RESEARCH EXTENSION CENTER

Aiken, Robert M., Multisponsor, \$2,484, "Sunflower Investigations."

Aiken, Robert M., (see **Lamm, Freddie R.**, Northwest Research Extension Center).

Aiken, Robert M., (see **Mengel, David B.**, Agronomy).

Aiken, Robert M., (see **Olson, Brian L.**, Northwest Area Office).

Aiken, Robert M., **Prasad, P. V. Vara** (Agronomy), **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), and **Tuinstra, Mitchell R.** (Agronomy), Kansas Grain Sorghum Commission, \$1,150, "Screening Sorghum Germplasm for Drought and Heat Tolerance."

Lamm, Freddie R., **Aiken, Robert M.**, and **O'Brien, Daniel M.** (Northwest Area Office), Kansas Corn Commission, \$15,000, "Effect of Tillage Practices and Limited Irrigation on Corn Production."

Lamm, Freddie R., **Klocke, Norman L.** (Southwest Research Extension Center), **Peterson, Jeffrey M.** (Agricultural Economics), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$15,046, "Water Conservation - Increased Efficiency in Usage."

Lamm, Freddie R., **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Alam, Mahub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$53,723, "New Water Management Technologies to Sustain Rural Economics - KSU."

PLANT PATHOLOGY

Bai, Jianfa, (see **Garrett, Karen A.**, Plant Pathology).

Bockus, William W., Kansas Crop Improvement Association, \$4,000, "Validation and Continued Production of Wheat Germplasm with Improved Resistance to Barley Yellow Dwarf."

Bockus, William W., Kansas Wheat Commission, \$35,000, "Disease Phenotyping: Determining the Reaction of Wheat Lines to Important Diseases."

Bockus, William W., Multisponsor, \$9,250, "Seed Treatment."

Bockus, William W., US Department of Agriculture, \$90,000, "Marker-Assisted Characterization and Selection of Wheat Cultivars for Scab Resistance."

Bockus, William W., and **Fritz, Allan K.** (Agronomy), US Department of Agriculture, \$26,341, "Development of Scab Resistant Wheat Cultivars for Kansas."

Bockus, William W., **Martin, Terry J.** (Agricultural Research Center-Hays), and **Seifers, Dallas L.** (Agricultural Research Center-Hays), Kansas Crop Improvement Association, \$2,940, "Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike."

Bowden, Robert L., (see **Barkley, Andrew P.**, Agricultural Economics).

Bowden, Robert L., (see **Leslie, John F.**, Plant Pathology).

Chumley, Forrest G., US Department of Agriculture, \$102,975, "USDA/ARS Research Support Agreement Task Order."

DeWolf, Erick D., US Department of Agriculture, \$34,695, "Prediction Models and Improved Pre-Harvest Estimates of Deoxynivalenol."

Fellers, John P., (see **Fritz, Allan K.**, Agronomy).

Fellers, John P., (see **Trick, Harold N.**, Plant Pathology).

Garrett, Karen A., National Science Foundation, \$10,000, "Post Doctoral Research Fellowship for Paul D. Esker."

Garrett, Karen A., US Agency for International Development, \$42,849, "Adapting to Change in the Andean Highlands: Practices and Strategies to Address Climate and Market Risks in Vulnerable Agro-Ecosystems."

Garrett, Karen A., US Agency for International Development, \$4,536, "Ecologically-Based Participatory IPM for Southeast Asia."

Garrett, Karen A., US Agency for International Development, \$26,407, "Validating Functions of Candidate Defense Genes for Broad-Spectrum Disease Resistance."

Garrett, Karen A., US Department of Agriculture, \$7,317, "Karnal Bunt Pest Risk Assessment Research."

Garrett, Karen A., **Bai, Jianfa**, **Hulbert, Scot H.**, **Leach, Jan E.**, and **Travers, Steven E.**, US Department of Energy, \$267,892, "Bridging the Divide: Linking Genomics to Ecosystem Responses to Climate Change."

Garrett, Karen A., (see **Barkley, Andrew P.**, Agricultural Economics).

Gill, Bikram S., Kansas Wheat Commission, \$100,000, "Wheat Genetics Resource Center and Its Contribution to the Kansas Wheat Industry."

Gill, Bikram S., US Department of Agriculture, \$29,268, "Alien Chromosome Engineering and the Deployment of a Novel Source of Fusarium Head Blight Resistance in Wheat."

Gill, Bikram S., US Department of Agriculture, \$7,500, "Karnal Bunt Germplasm Quarantine and Grow Out."

Gill, Bikram S., US Department of Agriculture, \$317,946, "Wheat Genetics Resource Center at Kansas State University."

Gill, Bikram S., and **Li, Wanlong**, US Department of Agriculture, \$300,000, "Genetic Dissection of the Lignocellulosic Pathway of Wheat to Improve Biomass Quality of Grasses as a Feedstock for Biofuels."

Gill, Bikram S., and **Li, Wanlong**, US Department of Agriculture, \$1,000,000, "IWGSC: A Physical Map and Sample Sequencing of the Homoeologous Group-3 Chromosomes of Wheat."

Jardine, Douglas J., Multisponsor, \$11,000, "Soybean Foliar Fungicide and Seed Treatment Tests."

Jardine, Douglas J., North Central Soybean Research Program, \$1,500, "Phytophthora sojae: New Strategies for an Old Pathogen."

Jardine, Douglas J., North Central Soybean Research Program, \$31,875, "Sentinel Plots to Monitor the Spread of Soybean Rust in the US Soybean Production Regions."

Jardine, Douglas J., US Department of Agriculture, \$8,000, "Managing Frogeye Leaf Spot, Charcoal Rot and Foliar Diseases in the North Central Region."

Kennelly, Megan, Multisponsor, \$16,000, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

Kennelly, Megan, Carey, Edward E. (Horticulture, Forestry and Recreation Resources), **Cloyd, Raymond A.** (Entomology), **Janke, Rhonda R., Nechols, James R.** (Entomology), **Nelson, Nathan O.** (Agronomy), **Rajashakar, Channa B.**, and **Williams, Kimberly A.**, US Department of Agriculture, \$50,070, "Effects of Organic Fertility Management on Crop Health and Phytochemical Content of Vegetables under Open Field and High Tunnel Production."

Leach, Jan E., (see **Garrett, Karen A.**, Plant Pathology).

Leach, Jan E., (see **Nelson, James C.**, Plant Pathology).

Leslie, John F., American Society for Microbiology, \$22,615, "Editor Position for Applied and Environmental Microbiology."

Leslie, John F., Multisponsor, \$39,134, "Fusarium Research."

Leslie, John F., US Agency for International Development, \$67,750, "Agroecology and Biotechnology of Fungal Pathogens of Sorghum and Millet."

Leslie, John F., US Department of Agriculture, \$61,400, "Molecular Genetics of Virulence and Resistance to Wheat Diseases."

Leslie, John F., and **Bowden, Robert L.**, US Department of Agriculture, \$32,629, "Genetic Diversity and Genetic Mapping of Gibberella Zeae."

Leslie, John F., and **Bowden, Robert L.**, US Department of Agriculture, \$46,980, "Genetic Mapping of Aggressiveness and Fertility Barriers in Gibberella Zeae."

Li, Wanlong, (see **Gill, Bikram S.**, Plant Pathology).

Nelson, James C., and **Leach, Jan E.**, US Department of Agriculture, \$117,989, "Coordinated Research, Education, and Extension Project for the Application of Genomic Discoveries to Improve Rice in the United States."

Nelson, James C., (see **White, Frank F.**, Plant Pathology).

Stack, James P., European Commission, \$7,913, "Crop and Food Biosecurity, and Provision of the Means to Anticipate and Tackle Crop Bioterrorism."

Stack, James P., Two awards from the US Department of Agriculture, \$150,000, "Plant Diagnostic Laboratories for Plant Disease and Pest Diagnosis and Surveillance."

Stack, James P., US Department of Agriculture, \$86,116, "National Legume Risk Management Tool Development Project."

Stack, James P., and **Baldwin, Will G.** (Communications), US Department of Agriculture, \$696,000, "Plant Diagnostic Center Laboratories for Plant Disease and Pest Diagnosis and Surveillance (Great Plains Diagnostic Network: Protecting Agriculture in America's Heartland)."

Stack, James P., (see **Whitfield, Anna E.**, Plant Pathology).

Todd, Timothy C., Schapaugh Jr., William T. (Agronomy), Long Jr., James H. (Southeast Agricultural Research Center), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$55,000, "Soybean Variety and Germplasm Improvement."

Travers, Steven E., (see **Garrett, Karen A.**, Plant Pathology).

Trick, Harold N., US Department of Agriculture, \$21,890, "Development of Phenylalanine-free Zein Protein in Transgenic Soybean as a Value-added Trait for PKU Patients."

Trick, Harold N., Fellers, John P., and Fritz, Allan K. (Agronomy), Kansas Wheat Commission, \$50,325, "Wheat Improvement through Genetic Engineering."

Trick, Harold N., Buschman, Larry L. (Southwest Research Extension Center), **Schapaugh Jr., William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), and **Smith, C. Michael** (Entomology), Kansas Soybean Commission, \$3,000, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Trick, Harold N., (see **Schapaugh Jr., William T.**, Agronomy).

Trick, Harold N., and **Shah, Jyoti** (Biology), US Department of Agriculture, \$12,421, "Engineering Fusarium Head Blight Resistance and Plant Defense Signaling."

Valent, Barbara S., National Science Foundation, \$11,826, "Community Annotation Database for Magnaporthe grisea and its Interactions with Rice."

Valent, Barbara S., National Science Foundation, \$140,000, "Molecular and Cellular Biology of Biotrophic Interactions in Rice Blast Disease."

Valent, Barbara S., US Department of Agriculture, \$399,940, "On the Mechanism of Secretion of Rice Blast Effector Molecules Inside Living Rice Cells."

White, Frank F., Food and Agriculture Organization of United Nations, \$33,858, "FAO Training Program: Xanthomonas oryzae Genetics and Diagnosis."

White, Frank F., US Department of Agriculture, \$399,000, "Reprogramming Host Transcription: Function and Diversity of the Transcription Activation-Like Type III Effectors in Disease."

White, Frank F., Nelson, James C., Tuinstra, Mitchell R. (Agronomy), and **Yu, Jianming** (Agronomy), Kansas State University, \$225,000, "Sorghum Translational Genomics Program: Mining Genomic Diversity for Sorghum Improvement."

Whitfield, Anna E., Seifers, Dallas L. (Agricultural Research Center-Hays), and **Stack, James P.**, Kansas Wheat Commission, \$12,000, "Developing Resources for Identification of Virus-Resistant Wheat Germplasm."

Whitfield, Anna E., US Department of Agriculture, \$102,914, "Functional Genomics of Peregrinus Maltidis Midguts and Interactions with Maize Mosaic Virus."

SOUTHEAST AGRICULTURAL RESEARCH CENTER

Kelley, Kenneth W., Multisponsor, \$650, "Weed Control in Farm Crops."

Kilgore, Gary L., (see **Janssen, Keith A.**, Agronomy).

Long Jr., James H., Schapaugh Jr., William T. (Agronomy), Todd, Timothy C. (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$22,000, "Soybean Variety and Germplasm Improvement."

Moyer, Joseph L., Ceres, Inc., \$5,000, "Field Trial Agreement."

Moyer, Joseph L., Multisponsor, \$20,430, "Southeast Kansas Crop Performance Testing Program."

SOUTHWEST AREA OFFICE

Alam, Mahub U., (see **Rogers, Danny H.**, Biological and Agricultural Engineering).

SOUTHWEST RESEARCH EXTENSION CENTER

Buschman, Larry L., Schapaugh Jr., William T. (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael** (Entomology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$24,000, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Currie, Randall S., Multisponsor, \$33,400, "Weed Control Research in Southwest Kansas."

Holman, Johnathon D., Ceres, Inc., \$17,250, "Switchgrass Variety Evaluation Trial."

Holman, Johnathon D., (see **Dille, Johanna A.**, Agronomy).

Holman, Johnathon D., (see **Schlegel, Alan J.**, Southwest Research Extension Center).

Klocke, Norman L., (see **Dille, Johanna A.**, Agronomy).

Klocke, Norman L., Lamm, Freddie R. (Northwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Peterson, Jeffrey M.** (Agricultural Economics), **Rogers, Danny H.** (Biological and Agricultural Engineering), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$12,311, "Water Conservation - Increased Efficiency in Usage."

Schlegel, Alan J., and **Holman, Johnathon D.**, Multisponsor, \$25,250, "Soil Fertility and Soil Management Research for Western Kansas."

Schlegel, Alan J., (see **Dille, Johanna A.**, Agronomy).

Schlegel, Alan J., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Alam, Mahub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$134,308, "New Water Management Technologies to Sustain Rural Economics - KSU."

Schlegel, Alan J., (see **Mengel, David B.**, Agronomy).

Schlegel, Alan J., (see **Olson, Brian L.**, Northwest Area Office).

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES

Ford, Paula B., (see **Dzewaltowski, David A.**, Community Health Institute).

Murphy, James P., US Department of Agriculture, \$377,261, "Kansas Agricultural Mediation Service."

Murphy, James P., US Department of Agriculture, \$23,261, "NCR-SARE Regional Professional Development Program."

Murphy, James P., Three awards from the US Department of Agriculture, \$65,903, "SARE Associate Coordinator, Professional Development Program."

Murphy, James P., and **Beckman, Jana J.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), US Department of Agriculture, \$50,000, "North Central Region SARE Professional Development Program (FY06-Kansas)."

Murphy, James P., (see **Maghirang, Ronaldo G.**, Biological and Agricultural Engineering).

COMMUNITY HEALTH INSTITUTE

Bopp, Melissa, Fallon, Elizabeth A., and **Martinez-Ortiz, Maria T.** (Modern Languages), Sunflower Foundation, \$13,041, "Faith-Based Physical Activity Intervention for Hispanics."

Dzewaltowski, David A., and **Ford, Paula B.** (Agriculture and Natural Resources), Sunflower Foundation, \$149,672, "Enhancing the Capacity of Rural Communities to Understand and Create Healthy Food Environments in Areas with Limited Access to Grocery Stores."

Dzewaltowski, David A., US Department of Health and Human Services, \$22,622, "Individual and Environmental Mechanisms of PA Change."

Trost, Stewart G., United Methodist Health Ministry Fund, \$9,088, "Healthy Kansas Kids."

DIRECTOR OF COOPERATIVE EXTENSION

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., \$89,250, "Kansas Agriculture and Rural Leadership, Inc."

Murphy, James P., US Department of Agriculture, \$410, "Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA)."

EXTENSION FAMILY AND CONSUMER SCIENCES

Peters, Paula, Fitzgerald, Karen D. (Human Nutrition), and **Hudson, Karen S.** (Human Nutrition), US Department of Agriculture, \$3,352,998 (includes \$908,372 from Kansas counties), "Kansas Food Stamp Nutrition Education Plan."

4-H YOUTH DEVELOPMENT

Fink, Carol J., Johannes, Elaine M. (School of Family Studies and Human Services), US Department of Agriculture, \$138,000, "New Communities Project - Kansas Teen Leadership for Physically Active Lifestyles."

KANSAS FOREST SERVICE

Aslin, Raymond G., US Department of Agriculture, \$4,329, "Conservation Reserve Program 2006."

Aslin, Raymond G., US Department of Agriculture, \$122,622 (includes \$48,235 from Fire Districts), "Consolidated Payment Grant 2006."

Aslin, Raymond G., US Department of Agriculture, \$2,414,441 (includes \$254,180 from Fire Districts, \$663,539 from In-kind, and \$20,000 from Kansas Department of Agriculture), "Consolidated Payment Grant 2007."

Aslin, Raymond G., US Department of Agriculture, \$75,000, "Natural Resources Conservation Service Technical Service Provider."

Aslin, Raymond G., US Department of the Interior, \$10,375, "Wildland Urban Interface Community Fire Assistance."

Aslin, Raymond G., US Environmental Protection Agency, \$64,632, "Forestry Water Quality Protection - Technical Assistance."

Aslin, Raymond G., US Environmental Protection Agency, \$15,000, "Marais des Cygnes Basin WRAPS Implementation: Riparian Forestry - Part 3."

NORTHEAST AREA OFFICE

Duncan, Stewart R., Multisponsor, \$4,000, "Crop and Soils Multisponsor Programs."

Duncan, Stewart R., (see **Gordon, Walter B.**, Agronomy).

Staggenborg, Scott A., (see **Nelson, Richard G.**, Kansas Industrial Extension Services).

NORTHWEST AREA OFFICE

Falk, Jeanne S., (see **Olson, Brian L.**, Northwest Area Office).
O'Brien, Daniel M., (see **Lamm, Freddie R.**, Northwest Research Extension Center).

Olson, Brian L., Aiken, Robert M. (Northwest Research Extension Center), **Claassen, Mark M.** (Agronomy), **Falk, Jeanne S., Gordon, Walter B.** (Agronomy), and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Crop Improvement Association, \$13,390, "Certified vs. Bin-Run Seed: A Field Perspective."

SOUTHEAST AREA OFFICE

Kilgore, Gary L., (see **Janssen, Keith A.**, Agronomy).

SOUTHWEST AREA OFFICE

Sloderbeck, Phillip E., (see **Buschman, Larry L.**, Southwest Research Extension Center).

Thompson, Curtis R., Multisponsor, \$44,250, "Chemical Evaluation."

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

DEAN OF ARCHITECTURE, PLANNING AND DESIGN

Holland, Kenneth M., World Bank, \$233,078, "Partnership with Kabul University for Engineering Faculty."

ARCHITECTURE

Gabbard, R. Todd, and **Miller, Ruth D.** (Electrical and Computer Engineering), US Department of Energy, \$50,000, "2007 Solar Decathlon."

LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING

Keane, Timothy D., (see **Hutchinson, Stacy L.**, Biological and Agricultural Engineering).

Skabelund, Lee R., US Environmental Protection Agency, \$13,393 (includes \$3,393 from private donations), "KSU Rain Garden Demo Project."

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY

Arakane, Yasuyuki, (see **Muthukrishnan, Subbarat**, Biochemistry).

Gorman, Maureen J., (see **Kanost, Michael R.**, Biochemistry).

Kanost, Michael R., US Department of Health and Human Services, \$302,950, "Proteinase Systems in Insect Hemolymph."

Kanost, Michael R., US Department of Health and Human Services, \$26,000, "Recruitment Package Start-Up for Jianhan Chen."

Kanost, Michael R., Gorman, Maureen J., and **Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$407,108, "Function of Laccases in *Anopheles gambiae*."

Kanost, Michael R., (see **Muthukrishnan, Subbarat**, Biochemistry).

Kramer, Karl J., (see **Muthukrishnan, Subbarat**, Biochemistry).

Muthukrishnan, Subbarat, US Department of Agriculture, \$30,000, "Genetic Engineering of Egyptian Wheat for Disease Resistance."

Muthukrishnan, Subbarat, Arakane, Yasuyuki, Beeman, Richard W. (Entomology), **Kanost, Michael R.**, and **Kramer, Karl J.**, National Science Foundation, \$364,529, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Prakash, Om, US Department of Health and Human Services, \$141,000, "Acquisition of a 500MHz High-Resolution NMR CryoProbe with Upgrade Console for Biomolecular NMR Spectroscopy."

Reeck, Gerald R., CRC NPB Limited (Australia), \$218,585, "Evaluation of Russian Wheat Aphid Virulence and Resistance Sustainability."

Roche, Thomas E., American Heart Association, Heartland Affiliate, \$71,500, "Regulation of Cardiac Pyruvate Dehydrogenase by Pyruvate Dehydrogenase Phosphatase 1."

Takemoto, Dolores J., and **Boyle, Daniel L.** (Biology), US Department of Health and Human Services, \$345,985, "Protein Kinase C Gamma in the Lens."

Takemoto, Dolores J., (see **Wei, Qize** Biochemistry).

Tomich, John M., and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$257,789, "Model Synthetic Channel Assemblies."

Wei, Qize, US Department of Health and Human Services, \$58,400, "MyoGEF in Cancer Cell Migration and Mouse Embryogenesis."

Wei, Qize, US Department of Health and Human Services, \$45,500, "Pitx2-Regulated Genes in Left-Right Development and Cardiac Morphogenesis."

Wei, Qize, US Department of Health and Human Services, \$87,600, "Roles of MyoGEF and its Interacting Partners in Cell Division and Cell Signaling."

Wei, Qize, and **Takemoto, Dolores J.**, US Department of Health and Human Services, \$3,721, "MyoGEF in Cancer Cell Migration and Mouse Embryogenesis (Mentor)."

Zolkiewska, Anna, US Department of Health and Human Services, \$207,652, "Molecular Analysis of Metalloprotease Disintegrin ADAM12."

Zolkiewski, Michal, US Department of Health and Human Services, \$10,000, "Biomedical Research Excellence Faculty Scholar Award."

Zufferey, Rachel, American Heart Association, Inc., \$65,000, "Ether Phospholipid Biosynthesis and Virulence in the Human Parasite *Leishmania*."

BIOLOGY

Althoff, Donald P., (see **Gipson, Philip S.**, Biology).

Asano, Katsura, US Department of Health and Human Services, \$277,400, "Studies on Start Codon Selection by Eukaryotic Ribosomes."

Beeser, Alexander E., US Department of Health and Human Services, \$58,400, "Identification of In Vivo Pak 1 Protein Kinase Inhibitors."

Beeser, Alexander E., and **Denell, Robin E.**, US Department of Health and Human Services, \$4,745, "Identification of In Vivo Pak 1 Protein Kinase Inhibitors (Mentor)."

Blair, John M., National Science Foundation, \$110,000, "Convergence and Contingencies in Savanna Grasslands."

Blair, John M., US Department of Agriculture, \$37,035, "Ecosystem Responses to Experimental Warming and More Extreme Precipitation Patterns."

Blair, John M., US Department of Energy, \$164,196, "Interactive Effects of Altered Rainfall Timing and Elevated Temperature on Soil Communities and Processes."

- Blair, John M.**, National Science Foundation, \$974,764, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."
- Blair, John M.**, (see **Dodds, Walter K.**, Biology).
- Boyle, Daniel L.**, (see **Takemoto, Dolores J.**, Biochemistry).
- Brown, Susan J.**, BASF Aktiengesellschaft, \$197,316, "Early ADME for Agrochemicals: Excretion and P450 Metabolism."
- Brown, Susan J., Beeman, Richard W.** (Entomology), **Denell, Robin E.**, and **Shippy, Teresa D.**, US Department of Health and Human Services, \$287,714, "Genetic Control of Segmentation."
- Brown, Susan J., and Welti, Ruth**, US Department of Health and Human Services, \$59,716, "Bioinformatics Core R&D, Lipidomics Bioinformatics: Lipidome DB, Statistical Applications and Data Processing."
- Chapes, Stephen K., Clem, Rollie J., and Passarelli, A. Lorena**, US Department of Health and Human Services, \$241,431, "Analysis of CD81-PGRL Complex on T Cells."
- Chapes, Stephen K., and Williams, Larry G.**, US Department of Health and Human Services, \$3,900, "K-INBRE Summer Scholarship - Jennifer Martin."
- Chapes, Stephen K., Ganta, Roman Reddy R.** (Diagnostic Medicine/Pathobiology), and **Wilkerson, Melinda**, US Department of Health and Human Services, \$126,088, "Cellular Immunity Against *Ehrlichia chaffeensis*."
- Clem, Rollie J.**, US Department of Health and Human Services, \$212,649, "Apoptosis as an Anti-Viral Response in Mosquito Midgut."
- Clem, Rollie J.**, US Department of Health and Human Services, \$10,000, "Biomedical Research Excellence Faculty Scholar Award."
- Clem, Rollie J.**, (see **Chapes, Stephen K.**, Biology).
- Conrad, Gary W.**, University of Kansas Endowment Association, \$10,000, "Higuchi-Endowment Association Research Achievement Award."
- Conrad, Gary W.**, US Department of Health and Human Services, \$398,227, "Fibroblast Differentiation during Eye Development."
- Cully, Jr., Jack F., and Wisely, Samantha**, US Department of the Interior, \$40,000, "Landscape Genetics of Deer and the Potential Spread of Chronic Wasting Disease across Kansas: A Pilot Study to Examine Deer Density and Hunting Pressure as Factors."
- Denell, Robin E.**, National Science Foundation, \$140,000, "Evolution of Genetic Mechanisms Controlling Developmental Fate."
- Denell, Robin E.**, (see **Beeser, Alexander E.**, Biology).
- Denell, Robin E.**, (see **Brown, Susan J.**, Biology).
- Dodds, Walter K., Blair, John M., Harrington Jr., John A.** (Geography), and **Steward, David R.** (Civil Engineering), National Science Foundation, \$1,112,709, "Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."
- Ferguson, Carolyn J.**, American Society of Plant Taxonomists, \$750, "Native-Invasive Hybridization of *Morus*: Implications for Systematics and Evolution (Madhav P. Nepal)."
- Ferguson, Carolyn J., and Mayfield, Mark H.**, National Science Foundation, \$121,602, "Computerization of the Kansas State University Herbarium: Digitizing a Critical Biodiversity Collection for the Great Plains."
- Ferguson, Carolyn J., Zolnerowich, Gregory** (Entomology), **Allen, David B.** (Library), and **Haddock, Michael J.** (Library), Kansas State University, \$184,000, "K-State Digital Prairie Plant and Insect Collection: Elevating Biodiversity and Bioinformatics to the Next Level."
- Fleming, Sherry D.**, American Heart Association, Heartland Affiliate, \$71,499, "Toll-Like Receptors Alter Ischemia/Reperfusion-Induced Vascular Permeability."
- Fleming, Sherry D.**, US Department of Health and Human Services, \$328,500, "Natural Antibodies and Tissue Injury."
- Fleming, Sherry D., and Vanier, Martha A.** (National Agricultural Biosecurity Center), US Department of Defense, \$40,317, "Targeted Complement Inhibition of Hemorrhage-Induced Damage and Inflammation."
- Fleming, Sherry D., Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), and **Wyatt, Carol R.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$35,000, "Flow Cytometry Core Laboratory Facility Support."
- Gido, Keith B.**, New Mexico Department of Game and Fish, \$15,000, "Characterizing Long-term Changes in Fish Assemblage Structure in the Gila River."
- Gipson, Philip S.**, Kansas Department of Wildlife and Parks, \$40,000, "Establishment and Operation of the Kansas Cooperative Fish and Wildlife Research Unit."
- Gipson, Philip S.**, Rocky Mountain Elk Foundation, \$17,000, "Fort Riley and Surrounding Area Elk Study #3."
- Gipson, Philip S.**, US Department of the Interior, \$4,717, "Changes in Vegetation, Small Mammal Communities, and Soil Compaction Associated with Military Training at the Smoky Hills Air National Guard Range, Kansas."
- Gipson, Philip S., Althoff, Donald P., and Pontius, Jeffrey S.** (Statistics), US Department of the Interior, \$235,849, "Range and Training Lands Assessment on Fort Riley."
- Hancock, Lynn E.**, American Heart Association, Heartland Affiliate, \$71,500, "Role of Proteases in the Pathogenesis of *Enterococcus faecalis* Endocarditis."
- Hancock, Lynn E.**, US Department of Health and Human Services, \$36,500, "Biology and Genetics of *Enterococcus faecalis* Polysaccharides."
- Hartnett, David C.**, National Science Foundation, \$11,260, "Dissertation Research: Belowground Bud Bank Populations as Regulators of Vegetation Responses to Ecosystem Drivers in African Grasslands - Harmony J. Dalglish."
- Mayfield, Mark H.**, (see **Ferguson, Carolyn J.**, Biology).
- Passarelli, A. Lorena**, (see **Chapes, Stephen K.**, Biology).
- Passarelli, A. Lorena, and Pfromm, Peter H.** (Chemical Engineering), University of Applied Sciences, \$7,300, "Purification of a Prototype Baculovirus."
- Paukert, Craig**, Kansas Department of Transportation, \$115,461, "Pilot Project: Inventory and Assessment of Road-Stream Crossings for Aquatic Organism Passage, with Recommendations for Culvert Design."
- Paukert, Craig**, US Department of the Interior, \$48,489, "Evaluation of Sampling Protocols Used to Determine the Status and Trends of Rare and Endangered Missouri River Species."
- Paukert, Craig, and Whittier, Joanna B.**, US Department of the Interior, \$163,060, "Development of Conservation Priorities to Protect Biodiversity of Fishes in the Lower Colorado River Basin."
- Sandercock, Brett K., and Wisely, Samantha**, Multisponsor, \$118,100, "Effects of Wind Power Development on Greater Prairie Chickens."

Sandercock, Brett K., and **Wisely, Samantha**, US Department of Energy, \$75,000, "Effects of Wind Power Development on Greater Prairie Chickens."

Sandercock, Brett K., (see **Wilson, Gail T.**, Biology).

Shah, Jyoti, and **Trick, Harold N.** (Plant Pathology), US Department of Agriculture, \$76,301, "Engineering Fusarium Head Blight Resistance and Plant Defense Signaling."

Shah, Jyoti, and **Welti, Ruth**, National Science Foundation, \$250,000, "Role of Arabidopsis SFD1 in Systemic Acquired Resistance."

Shah, Jyoti, (see **Welti, Ruth**, Biology).

Shippy, Teresa D., (see **Brown, Susan J.**, Biology).

Spooner, Brian S., Kansas State University Foundation, \$50,000, "Biology Research Career Development Core."

Spooner, Brian S., Kansas State University Foundation, \$136,914, "Cancer Center Core."

Spooner, Brian S., US Department of Health and Human Services, \$43,800, "Protein Interactions that Regulate Leptin Secretion."

Spooner, Brian S., US Department of Health and Human Services, \$52,000, "Two Recruitment Packages (Beeser and Morgan)."

Thorpe, Christopher J., US Department of Health and Human Services, \$62,450, "Tail Morphogenesis in Zebrafish."

Welti, Ruth, Global Lipidomics LLC, \$113,988, "Cooperative Agreement."

Welti, Ruth, National Science Foundation, \$5,000, "Collaborative Research: The Central Aleutians Archaeological and Paleobiological Project."

Welti, Ruth, US Department of Health and Human Services, \$23,160, "Novel Proapoptotic BH3-Only Proteins in Cancer Apoptosis."

Welti, Ruth, US Environmental Protection Agency, \$9,975, "Analysis of Biological Extracts."

Welti, Ruth, and **Shah, Jyoti**, National Science Foundation, \$148,001, "Metabolomic Profiling of Lipids and Their Compositional Dynamics in Plant Stress Responses."

Welti, Ruth, (see **Brown, Susan J.**, Biology).

Welti, Ruth, (see **Shah, Jyoti**, Biology).

Whittier, Joanna B., (see **Paukert, Craig**, Biology).

Williams, Larry G., (see **Chapes, Stephen K.**, Biology).

Wilson, Gail T., and **Sandercock, Brett K.**, National Science Foundation, \$65,773, "REU Site: Ecology and Evolutionary Biology of a Temperate Grassland."

Wisely, Samantha, (see **Sandercock, Brett K.**, Biology).

Wisely, Samantha, (see **Cully, Jr., Jack F.**, Biology).

With, Kimberly A., SeaWorld and Busch Gardens Conservation Fund, \$7,280, "Interactions between Grassland Birds and Their Snake Predators and the Potential for Conservation Benefits or Conflicts in Tallgrass Prairie - Page Klug."

Wright, Valerie F., Kansas Department of Wildlife and Parks, \$1,000, "Outdoor Wildlife Learning Site (OWLS) Certification Award."

CHEMISTRY

Aakeroy, Christer B., American Chemical Society, \$45,000, "Supramolecular Synthesis of Molecular Co-Crystals: A Versatile Approach to Modulating Physical Properties of Functional Molecular Solid."

Aakeroy, Christer B., **Higgins, Daniel A.**, **Hua, Duy H.**, and **Ito, Takashi**, National Science Foundation, \$40,800, "Assembly and Properties of Functionalized Carbon Nanotubes: An Integrated Approach towards New Functional Biomaterials."

Aakeroy, Christer B., (see **Sorensen, Christopher M.**, Physics).

Bossmann, Stefan, **Chikan, Viktor**, and **Smith, Paul E.**, US Department of Health and Human Services, \$21,900, "Targeting Cancer with Protein-Nanoparticle Complexes."

Chikan, Viktor, (see **Bossmann, Stefan**, Chemistry).

Culbertson, Christopher T., National Aeronautics and Space Administration, \$18,000, "Biosentinels: Biology-Based Microfluidic Reporter Technology for Monitoring Environmental Stressors." (2 awards)

Culbertson, Christopher T., US Department of Health and Human Services, \$87,781, "High Throughput Measurement of Cellular Signaling."

Eckels, Steven J., and **Sorensen, Christopher M.** (Physics), Kansas State University, \$125,000, "Center for Nanostructured Materials for Indoor Air Quality."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice Provost for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$189,362, "Urban Operations Laboratory Research."

Higgins, Daniel A., National Science Foundation, \$101,500, "Collaborative Research: New Routes for the Preparation and Characterization of Functionally-Graded and Mesoporous Silica Thin Films."

Higgins, Daniel A., (see **Aakeroy, Christer B.**, Chemistry).

Hua, Duy H., American Ingredients Company, \$20,000, "Chemical Synthesis of Food Ingredients."

Hua, Duy H., National Science Foundation, \$140,000, "Nanotubes: Synthesis and Applications."

Hua, Duy H., US Department of Health and Human Services, \$551,318, "Inhibition of Alzheimer's Beta-Amyloid Fibril Formation."

Hua, Duy H., and **Wangemann, A. Philine** (Anatomy and Physiology), American Heart Association, Heartland Affiliate, \$35,750, "Synthesis and Bioevaluation of Myriceric Acid A and its Analogs."

Hua, Duy H., (see **Aakeroy, Christer B.**, Chemistry).

Hua, Duy H., **Kanost, Michael R.** (Biochemistry), and **Gorman, Maureen J.**, US Department of Health and Human Services, \$60,832, "Function of Laccases in *Anopheles gambiae*."

Ito, Takashi, American Chemical Society, \$40,000, "Surface Chemistry of Diblock-Copolymer-Based Nanoporous Materials."

Ito, Takashi, (see **Aakeroy, Christer B.**, Chemistry).

Jankowiak, Ryszard J., US Department of Defense, \$260,000, "Novel Concept for Desalination of Seawater (Desalination using Electric Field Gradients)."

Jankowiak, Ryszard J., US Department of Health and Human Services, \$29,940, "Detection of Biomarkers of Estrogen-Initiated Cancers."

Klabunde, Kenneth J., US Department of Defense, \$225,000, "New Generation Nanocrystalline Materials for CB Protection."

Klabunde, Kenneth J., US Department of Defense, \$125,000, "Oxidation Catalysts in the Dark and the Light."

Klabunde, Kenneth J., **Sorensen, Christopher M.** (Physics), **Aakeroy, Christer B.** (Chemistry), **Chakrabarti, Amitabha** (Physics), and **Law, Bruce M.** (Physics), National Science Foundation, \$482,000, "Nanometer Stoichiometric Particle Compound Solutions and Control of their Self-Assembly into the Condensed Phase."

Smith, Paul E., (see **Bossmann, Stefan**, Chemistry).

DEAN OF ARTS AND SCIENCES

Allen, David S., and **Bennett, Andrew G.** (Mathematics), US Department of Education, \$2,000 “Infinite Mathematics Project.”

Holland, Kenneth M., World Bank, \$719,397, “Partnership with Kabul University Department of English.”

Montelone, Beth A., (see **Dyer, Ruth A.**, Office of the Provost).

Shroyer, Margaret G., **Bennett, Andrew G.** (Mathematics), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, \$770,160, “Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships.”

White, Stephen E., (see **Dyer, Ruth A.**, Office of the Provost).

White, Stephen E., (see **Holland, Kenneth M.**, International Programs).

GEOGRAPHY

Goodin, Douglas G., (see **Harrington Jr., John A.**, Geography).

Goodin, Douglas G., (see **Harrington, Lisa M.**, Geography).

Goodin, Douglas G., US Department of the Interior, \$1,500, “Field Remote Sensing Observations for Landscape Phenology Modeling.”

Goodin, Douglas G., **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), and **Marston, Richard A.**, US Environmental Protection Agency, \$15,000, “Mapping Burns in Tallgrass Prairie Using Remote Sensing.”

Goodin, Douglas G., and **Hutchinson, J. M. Shawn**, US Department of Health and Human Services, \$104,230, “Impact of Rapid Anthropogenic Land Cover Change in the Chaco and Interior Atlantic Forest in Paraguay on Hantavirus Ecology.”

Harrington Jr., John A., US Department of the Interior, \$40,000, “NPS LIDAR Map Production.”

Harrington Jr., John A., **Goodin, Douglas G.**, and **Hutchinson, J. M. Shawn**, National Aeronautics and Space Administration, \$15,000, “Improving the Research Experience of Geographic Information Science Students at Kansas State University.”

Harrington Jr., John A., **Hutchinson, J. M. Shawn**, and **Marston, Richard A.**, US Department of Defense, \$76,716, “Antilles Geographic Information Systems (GIS) Project.”

Harrington Jr., John A., (see **Dodds, Walter K.**, Biology).

Harrington Jr., John A., (see **Harrington, Lisa M.**, Geography).

Harrington, Lisa M., **Archer, Allen W.** (Geology), **Goodin, Douglas G.**, **Harrington Jr., John A.**, **Hubbard, Mary S.** (Geology), **Hutchinson, J. M. Shawn**, **Oviatt, Charles G.** (Geology), **Shanklin, Carol W.** (Vice Provost for Research and Dean of Graduate School), and **Uhlarik, John J.** (Psychology), National Aeronautics and Space Administration, \$21,420, “Kansas Space Grant Consortium.”

Hutchinson, J. M. Shawn, (see **Goodin, Douglas G.**, Geography).

Hutchinson, J. M. Shawn, (see **Harrington Jr., John A.**, Geography).

Hutchinson, J. M. Shawn, (see **Harrington, Lisa M.**, Geography).

Hutchinson, J. M. Shawn, and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), City of Topeka, Kansas, \$25,000, “Research and Stormwater Best Management Practices Manual Creation and Geographic Information Service Support 2005-2008.”

Lu, Max, (see **Graff, David A.**, History).

Marston, Richard A., (see **Harrington Jr., John A.**, Geography).

Marston, Richard A., (see **Goodin, Douglas G.**, Geography).

Steichen, James M., **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$17,151, “Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality.”

GEOLOGY

Archer, Allen W., (see **Harrington, Lisa M.**, Geography).

Bashir, Lamuail, (see **Hubbard, Mary S.**, Geology).

Hubbard, Mary S., **Harrington, Lisa M.** (Geography), **Archer, Allen W.** (Geology), **Goodin, Douglas G.**, **Harrington Jr., John A.**, **Hutchinson, J. M. Shawn**, **Oviatt, Charles G.** (Geology), **Shanklin, Carol W.** (Vice Provost for Research and Dean of Graduate School), and **Uhlarik, John J.** (Psychology), National Aeronautics and Space Administration, \$10,500, “Kansas Space Grant Consortium.”

Hubbard, Mary S., and **Bashir, Lamuail**, Seisnetics, LLC, \$28,000, “Application and Development of Genetic Algorithms Applied to Seismic Interpretation.”

Oviatt, Charles G., (see **Harrington, Lisa M.**, Geography).

HISTORY

Graff, David A., **Lu, Max** (Geography), and **Wu, Wei** (Modern Languages), Kansas State University, \$210,000, “East Asian Studies Enhancement Project.”

Lynn-Sherow, Bonnie, R.L. and **Elsa Helvering** Trust and Guise-Weber Foundation, \$12,000, “Marshall County Museums: A Pilot Project for the Pony Express Museum and Surrounding Sites - Janet Timmerman.”

Mrozek, Donald J., (see **Parillo, Mark P.**, History).

Mulready-Stone, Kristin, (see **Parillo, Mark P.**, History).

Parillo, Mark P., **Mrozek, Donald J.**, and **Mulready-Stone, Kristin**, National Foundation on the Arts and the Humanities, \$925,088 (includes \$725,088 from private donations), “Institute for Military History and 20th Century Studies: Humanities Research and Outreach at Kansas State University.”

KINESIOLOGY

Bopp, Melissa, Fallon, Elizabeth A., and **Martinez-Ortiz, Maria T.** (Modern Languages), Sunflower Foundation, \$26,477, “Faith-Based Physical Activity Intervention for Hispanics.”

Fallon, Elizabeth A., (see **Bopp, Melissa**, Kinesiology).

MATHEMATICS

Bennett, Andrew G., (see **Allen, David S.**, Elementary Education).

Bennett, Andrew G., (see **Shroyer, Margaret G.**, Elementary Education).

Blank, Ivan A., National Science Foundation, \$56,584, “Free Boundary Problems Arising in Material Science.”

Crane, Louis, Foundational Questions Institute, \$54,980, “New Approach to Quantum Gravity with Possible Applications to the Origin and Future of Life.”

Korten, Marianne, and **Moore, Charles N.**, National Science Foundation, \$15,034, “Prairie Analysis Seminar 2007.”

Lin, Zongzhu, US Department of Defense, \$29,204, “Problems in Representation Theory Related to Nilpotent Orbits.”

Moore, Charles N., (see **Korten, Marianne**, Mathematics).

Ryabogin, Dmitry, National Science Foundation, \$165,000, “Collaborative Research: Fourier Analytic and Probabilistic Methods in Geometric Functional Analysis and Convexity.”

MODERN LANGUAGES

Martinez-Ortiz, Maria T., (see **Bopp, Melissa**, Kinesiology).

Wu, Wei, (see **Graff, David A.**, History).

MUSIC

Fallin, Jana R., R.L. and **Elsa Helvering** Trust and Guise-Weber Foundation, \$12,000, "Music Education Study of Music and Arts Events in Small Towns."

Walker, Rodney G., Master Teacher, Inc., \$16,907, "Summer Choral Institute."

PHYSICS

Bolton, Timothy A., US Department of Energy, \$58,904, "Compact Muon Solenoid - Sensors."

Bolton, Timothy A., US Department of Energy, \$1,000, "Photomultiplier Tube Testing."

Bolton, Timothy A., Horton-Smith, Glenn A., Maravin, Yurii, Ratra, Bharat, Sidwell, Ronald A., Stanton, Noel R., and Von Toerne, Eckhard, US Department of Energy, \$520,000, "Heavy Quark and Neutrino Physics."

Bolton, Timothy A., (see **Von Toerne, Eckhard**, Physics).

Chakrabarti, Amitabha, (see **Sorensen, Christopher M.**, Physics).

Chang, Zenghu, National Science Foundation, \$125,000, "High Order Harmonic Generation in Aligned Molecules."

Chang, Zenghu, Cocke, Charles L., and Lei, Shuting (Industrial and Manufacturing Systems Engineering), US Department of Defense, \$520,833, "Attosecond Optical Technology Based on Recollision and Gating."

Cocke, Charles L., US Department of Energy, \$2,500,000, "Structure and Dynamics of Atoms, Ions, Molecules, and Surfaces."

Cocke, Charles L., (see **Chang, Zenghu**, Physics).

Corwin, Kristan L., US Department of Defense, \$278,000, "Novel Wavelength Standards in the Near Infrared."

Corwin, Kristan L., (see **Weaver, Oliver L.**, Physics).

Esry, Brett D., National Science Foundation, \$70,000, "Theoretical Investigations of Ultracold Few-Body Collisions."

Esry, Brett D., US Department of Defense, \$34,172, "Theoretical Investigation of Ultracold Few-Body Collisions."

Fan, Zhaoyang, Jiang, Hongxing, and Lin, Jingyu, Kansas Technology Enterprise Corporation, \$109,004, "Rare Earth Doped III-Nitrides for Optical Communications."

Horton-Smith, Glenn A., (see **Bolton, Timothy A.**, Physics).

Jiang, Hongxing, and Lin, Jingyu, US Department of Defense, \$100,000, "III-Nitrides for Hydrogen Fuel Cell and Thermopower Technologies."

Jiang, Hongxing, and Lin, Jingyu, US Department of Defense, \$240,860, "Wide Bandgap III-Nitride Micro- and Nano-Photonics."

Jiang, Hongxing, and Lin, Jingyu, US Department of Energy, \$151,000, "Optical and Electrical Properties of III-V Nitride Wide Bandgap Semiconductors."

Jiang, Hongxing, (see **Lin, Jingyu**, Physics).

Jiang, Hongxing, (see **Fan, Zhaoyang**, Physics).

Law, Bruce M., National Science Foundation, \$144,500, "Materials World Network: Electric Field Induced Microfluidic Manipulation."

Law, Bruce M., (see **Sorensen, Christopher M.**, Physics).

Lin, Chii-Dong, National Science Foundation, \$50,000, "Quantum Physics of He Near the Double Ionization Threshold -- Quantum Chaos and Wannier Threshold Law."

Lin, Chii-Dong, US Department of Energy, \$148,000, "Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons."

Lin, Jingyu, National Science Foundation, \$30,000, "Erbium Doped III-Nitride Materials and Photonic Structures for Optical Communications."

Lin, Jingyu, and Jiang, Hongxing, National Science Foundation, \$114,568, "III-Nitride Deep Ultraviolet Photonic Materials and Structures - Growth, Optical Studies and Applications."

Lin, Jingyu, (see **Fan, Zhaoyang**, Physics).

Lin, Jingyu, (see **Jiang, Hongxing**, Physics).

Litvinyuk, Igor V., US Department of Energy, \$121,000, "Developing Laser-Induced Re-Collision Electron Self-Diffraction for Ultra-Fast Imaging of Transient Molecular Structure."

Maravin, Yurii, (see **Bolton, Timothy A.**, Physics).

Rahman, Talat S., National Science Foundation, \$38,500, "Thirty-First International Nathiagali Summer College on Physics and Contemporary Needs: Islamabad, Pakistan 26th June - 8th July, 2006."

Rahman, Talat S., US Department of Energy, \$145,000, "Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes through Tailored Nanostructures."

Rahman, Talat S., US Department of Energy, \$100,000, "Theoretical and Computational Studies of Characteristics of Metallic Nanostructures."

Ratra, Bharat, (see **Bolton, Timothy A.**, Physics).

Rebello, N. Sanjay, Hewlett-Packard Company, \$120,500, "Going WILD (Wandering Interactive Laboratories and Demonstrations) with HP."

Rebello, N. Sanjay, National Science Foundation, \$16,413, "CoMPASS: Integrating Digital Text in Design-Based Science Classes."

Rebello, N. Sanjay, and Zollman, Dean A., National Science Foundation, \$112,583, "Facilitating Case Reuse during Problem Solving."

Rebello, N. Sanjay, (see **Zollman, Dean A.**, Physics).

Sorensen, Christopher M., Cabot Corporation, \$20,000, "Aerosol Synthesis of Low Density High Surface Area Silica Materials: Silica Aerosol Gels."

Sorensen, Christopher M., National Aeronautics and Space Administration, \$24,000, "Light Scattering by Nonspherical Particles - Matthew Berg."

Sorensen, Christopher M., National Science Foundation, \$5,000, "NIRT: Multi-Scale Simulation of Nanoparticle Aggregation for Scale Up of High-Rate Synthesis Methods."

Sorensen, Christopher M., Aakeroy, Christer B. (Chemistry), **Chakrabarti, Amitabha, Klabunde, Kenneth J.** (Chemistry), and **Law, Bruce M.**, National Science Foundation, \$723,000, "Nanometer Stoichiometric Particle Compound Solutions and Control of their Self-Assembly into the Condensed Phase."

Sorensen, Christopher M., and Eckels, Steven J. (Institute for Environmental Research), Kansas State University, \$187,500, "Center for Nanostructured Materials for Indoor Air Quality."

Stanton, Noel R., (see **Bolton, Timothy A.**, Physics).

Thumm, Uwe, National Science Foundation, \$65,000, "Quantum Dynamics in Particle Interactions with Atomically Flat and Nano-Structured Surfaces."

Thumm, Uwe, National Science Foundation, \$45,000, "Quantum Dynamics in Particle Interactions with Complex Surfaces."

Von Toerne, Eckhard, and **Bolton, Timothy A.**, US Department of Energy, \$18,000, "Calorimeter-Based Tracking for Particle Flow and Reconstruction of Long-Lived Particles with the SiD Detector."

Von Toerne, Eckhard, (see **Bolton, Timothy A.**, Physics).

Washburn, Brian R., US Department of Commerce, \$6,884, "FY 2007 NIST Boulder Summer Undergraduate Research Fellowship - Daniel V. Nickel."

Weaver, Oliver L., and **Corwin, Kristan L.**, National Science Foundation, \$97,376, "REU Site: Laser-Matter Interactions on Atomic and Nano Scales."

Zollman, Dean A., National Science Foundation, \$164,438, "Pathway II: Addressing the Needs of the Nation's Physics Teachers through State-of-the-Art Video Applications and Contemporary Pedagogy."

Zollman, Dean A., National Science Foundation, \$68,294, "Undergraduate Science Course Reform Serving Pre-Service Teachers: Evaluation of a Faculty Professional Development Model."

Zollman, Dean A., and **Rebello, N. Sanjay**, National Science Foundation, \$329,238, "Coupling Conversational Interactivity with Multimedia in Support of Physics Learning."

Zollman, Dean A., (see **Rebello, N. Sanjay**, Physics).

PSYCHOLOGY

Cain, Mary E., and **Weiss, Mark L.** (Anatomy and Physiology), US Department of Health and Human Services, \$140,256, "Amygdala, Individual Differences, and Conditioned Hyperactivity."

Frieman, Jerome, and **Monaco, Gregory E.**, Great Plains Network Consortium, \$174,624, "Funding for Director of Research - Great Plains Network."

Monaco, Gregory E., (see **Frieman, Jerome**, Psychology).

Shanteau, James C., US Department of Defense, \$20,952, "Performance Evaluation of Expert Teams in Technological Environments."

Uhlarik, John J., **Harrington, Lisa M.** (Geography), **Archer, Allen W.** (Geology), **Goodin, Douglas G.**, **Harrington Jr., John A.**, **Hubbard, Mary S.** (Geology), **Hutchinson, J. M. Shawn**, **Oviatt, Charles G.** (Geology), and **Shanklin, Carol W.** (Vice Provost for Research and Dean of Graduate School), National Aeronautics and Space Administration, \$5,880, "Kansas Space Grant Consortium."

SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

Gould, Thomas H., North Central Regional Planning Commission, \$14,600, "Editorship Project."

Grimes, Tom, National Association of Broadcasters, \$2,100, "Visual Clutter on TV Newscasts."

Powers, Angela, and **Puntney, Linda S.**, Journalism Education Association, \$111,816, "Establishment of the Journalism Education Association National Headquarters at Kansas State University."

Puntney, Linda S., (see **Powers, Angela**, School of Journalism and Mass Communications).

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

Britton, Dana M., Sociologists for Women in Society, \$90,077, "Gender and Society Editorship."

Logan, Brad R., BG Consultants, Inc., \$1,946, "Cultural Resources Survey of the Heritage North Development, Pottawatomie County, Kansas."

Logan, Brad R., BG Consultants, Inc., \$4,935, "Phase III National Register of Historic Places Evaluation of 14PO402 at the Heritage North Development, Pottawatomie County, Kansas."

Logan, Brad R., US Department of the Interior, \$20,693, "Archaeological Survey of Stranger Creek Basin, Leavenworth County, Kansas."

Logan, Brad R., US Department of the Interior, \$25,000, "National Register of Historic Places Evaluation of Selected Sites at Lovewell Reservoir, Jewell County, Kansas."

Middendorf, Gerad D., US Department of Agriculture, \$75,000, "Building Capacity to Engage Latinos in Local Food Systems in the Heartland."

Selfa, Theresa L., **Nelson, Nathan O.** (Agronomy), **Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L.**, **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Langemeier, Michael R.** (Agricultural Economics), and **Mankin, Kyle R.** (Biological and Agricultural Engineering), US Department of Agriculture, \$32,500, "Assessing the Impact of a Strategic Approach to Implementation of Conservation Practices."

STATISTICS

Pontius, Jeffrey S., (see **Gipson, Philip S.**, Biology).

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING

Kovar, Stacy E., Institute of Management Accountants, Inc., \$6,723, "Qualitative Empirical Examination of the Acquisition of Information Assurance."

Vruwink, David R., (see **Niehoff, Brian P.**, Management).

DEAN OF BUSINESS ADMINISTRATION

Ebadi, Yar M., Kansas State University Foundation, \$114,516, "Kansas State University Foundation Support."

MANAGEMENT

Ehie, Ike C., and **Gordon, Myra E.** (Office of Diversity and Dual Career Development), US Agency for International Development, \$325,250 (includes \$175,250 from private sector contributors), "Advancing Economic Development in Nigeria through Strengthening Business Management Education and Technology Competence."

Niehoff, Brian P., and **Vruwink, David R.** (Accounting), Multisponsor, \$4,250, "MBA Practicum."

COLLEGE OF EDUCATION

DEAN OF EDUCATION

Allen, David S., and **Bennett, Andrew G.** (Mathematics), US Department of Education, \$58,000 (includes \$5,105 from USD #475), "Infinite Mathematics Project."

Flaherty, Roberta D., National Academic Advising Association, \$1,028,099, "National Academic Advising Association Executive Office."

Goodson, F. Todd, International Reading Association, Inc., \$5,000, "Editorship of Journal of Adolescent and Adult Literacy."

Goodson, F. Todd, US Department of Education, \$100,224 (includes \$200 from NW Kansas Educational Service Center, \$31,675 from participant support, \$100 from Topeka and Shawnee County Public Library, \$250 from USD 345, \$900 from USD 383, \$10,099 from USD 475, and \$12,000 from Writing Project Conferences), "Flint Hills Writing Project."

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, \$122,910, "Kansas Foundation for Agriculture in the Classroom."

Havlicek, Barbara J., Multisponsor, \$8,182, "Council for Public School Improvement."

Havlicek, Barbara J., Multisponsor, \$73,788, "Educational Computer Assistance."

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

Herrera, Socorro G., US Department of Education, \$389,528 (includes \$113,662 from various USDs), "Making the Grade."

Herrera, Socorro G., US Department of Education, \$420,231, "Project Destiny."

Herrera, Socorro G., US Department of Education, \$245,232, "Project Maestra."

Herrera, Socorro G., US Department of Education, \$267,101, "Project MERIT."

Herrera, Socorro G., US Department of Education, \$243,893, "Project PEER."

Herrera, Socorro G., US Department of Education, \$278,040, "Project Pulse."

Herrera, Socorro G., US Department of Education, \$271,933, "Project Synergy."

Herrera, Socorro G., USD 497, Lawrence, \$14,700, "Hillcrest Elementary - Reading First Project."

Holland, Kenneth M. (Office of International Programs), World Bank, \$695,417, "Partnership with Kabul University Department of English."

Kaff, Marilyn S., and **Frey, Timothy**, US Department of Education, \$22,500, "Continuous Improvement Grant for Special Education."

Middendorf, B. Jan, and **Thurston, Linda P.**, Institute of Museum and Library Services, \$25,000, "Evaluation of the Library Services and Technology Act Five-Year Plan 2003-2007 for the State Library of Kansas."

Middendorf, B. Jan, and **Thurston, Linda P.**, Institute of Museum and Library Services, \$12,000, "Strategic Planning of the Library Services and Technology Act Five-Year Plan 2007-2012."

Middendorf, B. Jan, and **Thurston, Linda P.**, Kansas Board of Regents, \$425,000, "KAN-ED Evaluation - Phase V."

Middendorf, B. Jan, and **Thurston, Linda P.**, Kansas Board of Regents, \$23,200, "Kansas Board of Regents Funding Model Report."

Murry, Kevin G., US Department of Education, \$9,589, "Las Estrellas."

Murry, Kevin G., US Department of Education, \$299,884, "Project Advocate."

Murry, Kevin G., US Department of Education, \$243,518, "Project SOAR."

Murry, Kevin G., US Department of Education, \$299,685, "Project TEACH."

Rankin, Charles I., US Department of Education, \$752,883, "Midwest Equity Assistance Center."

Shroyer, Margaret G., **Bennett, Andrew G.** (Mathematics), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, \$1,155,239, "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

Thurston, Linda P., (see **Middendorf, B. Jan**, Dean of Education).

Vontz, Thomas, Center for Civic Education, \$8,864, "Arab Civitas Egypt Evaluation."

Vontz, Thomas, US Department of Education, \$18,970, "Kansas We the People Program."

EDUCATIONAL LEADERSHIP

Gould, Carol A., Corporation for National and Community Service, \$63,619, "Kansas Campus Compact."

Tolar, Mary H., (see **Procter, David E.**, Center for Engagement and Community Development).

Tolar, Mary H., **Scott, Susan M.**, Corporation for National and Community Service, \$90,720, "Campus-Community Youth Service Corps."

ELEMENTARY EDUCATION

Allen, David S., (see **Allen, David S.**, Dean of Education).

Shroyer, Margaret G., (see **Shroyer, Margaret G.**, Dean of Education).

Vontz, Thomas, (see **Vontz, Thomas**, Dean of Education).

SECONDARY EDUCATION

Goodson, F. Todd, (see **Goodson, F. Todd**, Dean of Education).

Kane, Mary R., Kansas State Department of Education, \$70,604, "FFA-YF/YFW Organizations."

Yahnke, Sally J., (see **Shroyer, Margaret G.**, Elementary Education).

SPECIAL EDUCATION

Frey, Timothy, (see **Kaff, Marilyn S.**, Special Education).

Kaff, Marilyn S., (see **Kaff, Marilyn S.**, Dean of Education).

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE

Becker, Gina Y., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

Case, Scott A., US Department of Defense, \$16,000, "Modify an Existing Emergency Destruct Press."

Case, Scott A., US Department of Defense, \$320,000, "Modify One Existing Emergency Destruct Press (EDP) and Build Nine Additional EDPs."

Case, Scott A., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

Case, Scott A., (see **Tucker, Jeffrey W.**, Advanced Manufacturing Institute).

Kramer, Bradley A., National Collegiate Inventors and Innovators Alliance, \$2,500, "Invention to Venture 2007 - I2V K-State."

Kramer, Bradley A., **Amanor-Boadu, Vincent R.** (Agricultural Economics), **Gallagher, Richard R.** (Dean of Engineering),

Madl, Ronald L. (Grain Science and Industry), and **Tucker, Jeffrey W.**, National Science Foundation, \$203,819, "Partnership to Accelerate Commercialization of Kansas Bioscience Products and Technologies."

Kramer, Bradley A., and **Becker, Gina Y.**, DT Search and Designs, LLC, \$25,000, "Matching Funds to USDA Natural Resources Conservation Services Project for Development and Demonstration of a Phosphate Recovery Device that is Economical for CAFO's."

Kramer, Bradley A., and **Becker, Gina Y.**, Kansas Livestock Association, \$50,000, "Matching Funds to USDA Natural Resources Conservation Services Project for Development and Demonstration of a Phosphate Recovery Device that is Economical for CAFO's."

Kramer, Bradley A., and **Becker, Gina Y.**, US Department of Agriculture, \$50,000, "Development and Demonstration of a Phosphate Recovery Device that is Economical for CAFO's."

Kramer, Bradley A., and **Case, Scott A.**, Multisponsor, \$59,997, "Advanced Manufacturing - Multi-sponsor."

Kramer, Bradley A., and **Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$50,000, "EDA 'Early Stage Technology Development Assistance Center'."

Kramer, Bradley A., and **Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$615,736, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

Kramer, Bradley A., and **Tucker, Jeffrey W.**, Kansas Technology Enterprise Corporation, \$21,088, "Partnership to Accelerate Commercialization of Kansas Bioscience Products and Technologies."

Kramer, Bradley A., and **Tucker, Jeffrey W.**, US Department of Commerce, \$155,000, "Early-Stage Technology Development Assistance Center: Bridging the Gap between New Technologies and Commercialization."

Tucker, Jeffrey W., US Department of Defense, \$16,200, "Seat Belt Convincer."

Tucker, Jeffrey W., and **Case, Scott A.**, Multisponsor, \$504,655, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Tucker, Jeffrey W., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Alam, Mahbub U., **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$107,446, "New Water Management Technologies to Sustain Rural Economics - KSU."

Barnes, Philip L., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Barnes, Philip L., (see **Nelson, Nathan O.**, Agronomy).

Chumley, Forrest G., US Department of Agriculture, \$532, "USDA/ARS Research Support Agreement Task Order."

Eckels, Steven J., and **Sorensen, Christopher M.** (Physics), Kansas State University, \$106,250, "Center for Nanostructured Materials for Indoor Air Quality."

Hargrove, William L., and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$24,070 (includes \$6,070 from Project Cooperators), "Kansas Watershed Restoration and Protection Strategy -- Kanopolis Watershed Restoration and Protection Strategy Implementation--Part 2."

Harner III, Joseph P., Natural Milk Production, LLP, \$25,000, "Alley Cat Scraper."

Harner III, Joseph P., (see **DeRouchey, Joel M.**, Animal Sciences and Industry).

Harner III, Joseph P., (see **Maghirang, Ronaldo G.**, Biological and Agricultural Engineering).

Hutchinson, Stacy L., City of Lenexa, Kansas, \$108,555, "Urban Stormwater Wetland Assessment."

Hutchinson, Stacy L., and **Hutchinson, J. M. Shawn** (Geography), City of Topeka, Kansas, \$25,000, "Research and Stormwater Best Management Practices Manual Creation and Geographic Information Service Support 2005-2008."

Hutchinson, Stacy L., **Hutchinson, J. M. Shawn** (Geography), and **Keane, Timothy D.** (Landscape Architecture/Regional and Community Planning), City of Mission, Kansas, \$50,000, "Stormwater Best Management Practice Evaluation and Design."

Hutchinson, Stacy L., and **Keane, Timothy D.** (Landscape Architecture/Regional and Community Planning), Johnson County Public Works, \$37,387, "Johnson County Stormwater Infiltration Demonstration."

Hutchinson, Stacy L., **Steichen, James M.** (National Institute for Land Management and Training), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$68,605, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

Koelliker, James K., US Department of the Interior, \$50,000, "Modeling and Field Experimentation to Determine the Effects of Land Terracing and Non-Federal Reservoirs on Water Supplies in the Republican River Basin above Hardy, Nebraska."

Maghirang, Ronaldo G., US Department of Agriculture, \$16,600, "Improved Handling of Grain in Commercial Elevators."

Maghirang, Ronaldo G., **Broce, Alberto B.** (Entomology), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Harner III, Joseph P.**, **Murphy, James P.** (Agriculture and Natural Resources), and **Pickrell, John A.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, \$200,000, "Air Quality: Odor, Dust, and Gaseous Emissions from Concentrated Animal Feeding Operations in the Southern Great Plains."

Maghirang, Ronaldo G., **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), and **Harner III, Joseph P.**, US Department of Agriculture, \$474,409, "Impacts of Water Sprinkler Systems on Air Quality at Cattle Feedlots."

Mankin, Kyle R., Kansas Department of Health and Environment, \$61,200, "Kansas Watershed Restoration and Protection Strategy - Elk City Lake Watershed Assessment Project."

Mankin, Kyle R., Kansas Department of Health and Environment, \$74,250 (includes \$6,750 from outside cooperators), "Pomono Lake Assessment Support."

Mankin, Kyle R., US Department of Agriculture, \$598,000, "Land and Stream Sediment Process Restoration in an Agricultural Watershed."

Mankin, Kyle R., US Environmental Protection Agency, \$121,725, "Milford Lake Watershed WRAPS Assessment."

Mankin, Kyle R., US Environmental Protection Agency, \$140,213 (includes \$18,488 from cooperator support), "Tuttle Creek Lake Watershed WRAPS Assessment."

Mankin, Kyle R., US Environmental Protection Agency, \$175,061 (includes \$18,923 from cooperator support), "Neosho River Watershed WRAPS Assessment."

Mankin, Kyle R., and **Barnes, Philip L.**, Kansas Department of Health and Environment, \$61,200, "Kansas Watershed Restoration and Protection Strategy - Upper Verdigris/Toronto Lake Watershed Assessment."

Mankin, Kyle R., and **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), Kansas Department of Health and Environment, \$62,675 (includes \$7,500 from Cooperators), "Kansas WRAPS - Oologah Lake Watershed Stakeholder Leadership Team Development and Assessment Support."

Mankin, Kyle R., and **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), Kansas Water Office, \$36,500, "Watershed and Riparian Assessment for John Redmond Reservoir."

Mankin, Kyle R., **Nelson, Nathan O.** (Agronomy), **Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L.**, **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment / Kansas Water Resources Research Institute), **Langemeier, Michael R.** (Agricultural Economics), and **Selfa, Theresa L.** (Sociology, Anthropology, and Social Work), US Department of Agriculture, \$175,500, "Assessing the Impact of a Strategic Approach to Implementation of Conservation Practices."

Powell, G. Morgan, US Environmental Protection Agency, \$17,041, "Kansas Environmental Leadership Program (KELP) 05-06 Class."

Powell, G. Morgan, and **Willingham, Judith M.**, Kansas Water Office, \$6,500, "Kansas Water Resources Adult Education."

Rogers, Danny H., and **Alam, Mahub U.** (Southwest Area Office), Kansas Water Office, \$70,000, "K-State Mobile Irrigation Lab."

Rogers, Danny H., **Lamm, Freddie R.** (Northwest Research Extension Center), **Klocke, Norman L.** (Southwest Research Extension Center), **Peterson, Jeffrey M.** (Agricultural Economics), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$9,575, "Water Conservation - Increased Efficiency in Usage."

Slocombe, John W., US Department of Agriculture, \$177,829, "Kansas AgrAbility Project."

Slocombe, John W., US Department of Agriculture, \$119,791, "Youth Livestock Safety Education Project."

Wang, Donghai, US Department of Agriculture, \$35,000, "Fermentation Quality of Sorghum."

Wang, Donghai, **Rice, Charles W.** (Agronomy), **Staggenborg, Scott A.** (Agronomy), and **Tuinstra, Mitchell R.** (Agronomy), Kansas Grain Sorghum Commission, \$18,000, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Wang, Donghai, (see **Sun, X. Susan**, Grain Science and Industry).

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), Foseco International Limited, \$48,088, "Soy-Based Binders."

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Defense, \$21,415, "On-Demand Subzero Ration Components for Use in Extreme Cold Environments that Do Not Hard Freeze and Heat Faster for Field Consumption."

Willingham, Judith M., (see **Powell, G. Morgan**, Biological and Agricultural Engineering).

Zhang, Naiqian, AGCO Corporation, \$9,597, "Embedded System Development for ISO Virtual Terminal and ISO Task Controller."

Zhang, Naiqian, AGCO Corporation, \$46,786, "Optical Processing Methods for Application to Agricultural Machines."

Zhang, Naiqian, US Department of Defense, \$15,880, "Real-Time Monitoring of Soil Erosion at a Low-Water Armored-Vehicle Crossing Using an Optical Sediment Sensor."

Zhang, Naiqian, (see **Steichen, James M.**, National Institute for Land Management and Training).

CENTER FOR HAZARDOUS SUBSTANCE RESEARCH

Biles, Bertram R., US Department of Defense, \$35,236, "ITAM FY 2007 Workshop."

Erickson, Larry E., US Department of Defense, \$21,000, "Urban Operations Laboratory - Personnel Suppression Payload Systems (PSPS)."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice Provost for Research and Dean of Graduate School), and **Leven, Blase A.**, US Department of Defense, \$135,258, "Urban Operations Laboratory Research."

Erickson, Larry E., and **Kulakow, Peter A.** (Agronomy), US Environmental Protection Agency, \$4,000, "Cooperative Agreement between US Environmental Protection Agency and Kansas State University to Provide Technical Support."

Leven, Blase A., and **Kulakow, Peter A.** (Agronomy), US Department of Agriculture, \$1,250, "The Future of Agriculture Science, Stewardship and Sustainability."

Leven, Blase A., and **Reddi, Lakshmi N.** (Civil Engineering), US Environmental Protection Agency, \$55,000, "Support for Six TOSC/TOSNAC Communities."

Leven, Blase A. and **Reddi, Lakshmi N.** (Civil Engineering), US Environmental Protection Agency, \$150,100, "Training and Technical Assistance to Brownfields (TTAB) Grants."

Leven, Blase A., (see **Erickson, Larry E.**, Center for Hazardous Substance Research).

Leven, Blase A., **Reddi, Lakshmi N.** (Civil Engineering), and **Kulakow, Peter A.** (Agronomy), US Environmental Protection Agency, \$10,000, "Midwest Hazardous Substance Research Center Technical Assistance to Brownfields."

Steichen, James M., **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$8,576, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

CHEMICAL ENGINEERING

Edgar, James H., National Science Foundation, \$90,000, "Materials World Network: Collaborative Research: An Investigation into the Properties of B12As2, B4C and Their Heterostructures."

Edgar, James H., US Department of Defense, \$100,000, "High Growth Rate, High Purity Silicon Carbide Epitaxy."

Edgar, James H., **McGregor, Douglas S.** (Mechanical and Nuclear Engineering), and **Rys, Andrew** (Electrical and Computer Engineering), National Science Foundation, \$52,576, "Acquisition of a Hall Effect Measurement System for Characterizing Novel Semiconductors."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice Provost for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$108,207, "Urban Operations Laboratory Research."

Pfromm, Peter H., Amanor-Boadu, Vincent R. (Agricultural Economics), **Chumley, Forrest G.** (Agricultural Experiment Station), **Madl, Ronald L.** (Grain Science and Industry), and **Nelson, Richard G.** (Kansas Industrial Extension Services), Koch Genesis LLC, \$53,392, "Bio-butanol: Technical and Economical Assessment."

Pfromm, Peter H., and Passarelli, A. Lorena (Biology), University of Applied Sciences, \$7,300, "Purification of a Prototype Baculovirus."

Rezac, Mary E., National Aeronautics and Space Administration, \$23,673, "Improved Polymer-Based Electrolytes for Lithium Ion Batteries."

Rezac, Mary E., US Department of Energy, \$30,000, "Novel Platform for Enhanced Membrane Reactors for Homogenous Catalysis."

Rezac, Mary E., Madl, Ronald L. (Grain Science and Industry), and **Nelson, Richard G.** (Kansas Industrial Extension Services), Kansas State University, \$375,000, "Kansas State University Center for Sustainable Energy."

Walton, Krista S., National Science Foundation, \$260,328, "Functional Microporous Metal-Organic Materials for Adsorption Applications: Experimental Investigations and Molecular Modeling."

Walton, Krista S., US Department of Defense, \$148,515, "Air Purification: Nanostructured Media for Individual Protection."

CIVIL ENGINEERING

Bhandari, Alok, (see **Larson, Nancy J.,** Kansas Industrial Extension Services).

Coon, Brian A., US Department of Transportation, \$150,000, "University Transportation Center Tier II."

Coon, Brian A., Dissanayake, Sunanda, Hossain, Mustaque A., Najjar, Yacoub M., Peterman, Robert J., Romanoschi, Stefan A., Russell, Eugene R., Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), and **Stokes, Robert W.,** US Department of Transportation, \$572,102, "KSU University Transportation Center: The Sustainability and Safety of Rural Transportation Systems and Infrastructures."

Coon, Brian A., (see **Peterman, Robert J.,** Civil Engineering).

Dissanayake, Gamage P., Kansas Department of Transportation, \$45,000, "Speed Limit Related Issues on Gravel Roads."

Dissanayake, Sunanda, Kansas Department of Transportation, \$55,000, "Highway Safety Issues of Older Drivers of Kansas."

Dissanayake, Sunanda, (see **Coon, Brian A.,** Civil Engineering).

Dissanayake, Sunanda, (see **Hossain, Mustaque A.,** Civil Engineering).

Esmaily, Asadollah, (see **Rasheed, Hayder A.,** Civil Engineering).

Hossain, Mustaque A., Kansas Department of Transportation, \$17,500, "Administration of KDOT/KTRAN Program."

Hossain, Mustaque A., Kansas Department of Transportation, \$50,000, "Development of a Rapid Test to Determine Moisture Sensitivity of HMA (Superpave) Mixtures."

Hossain, Mustaque A., US Department of Transportation, \$50,000, "Implementation of the Rolling Wheel Deflectometer (RWD) for Pavement Structural Data for the Kansas Pavement Management System."

Hossain, Mustaque A., and Dissanayake, Sunanda, US Department of Transportation, \$250,000, "Implementation of the 2002 AASHTO Design Guide for Pavement Structures."

Hossain, Mustaque A., and Romanoschi, Stefan A., Kansas Department of Transportation, \$75,000, "Investigation of 4.75 mm Nominal Maximum Aggregate Size Superpave Mix in Kansas."

Hossain, Mustaque A., (see **Coon, Brian A.,** Civil Engineering).

Najjar, Yacoub M., (see **Coon, Brian A.,** Civil Engineering).

Peterman, Robert J., High Concrete Structures, Inc., \$42,280, "Evaluating the Bond Performance of Self-Consolidating Concrete in Prestressing Applications."

Peterman, Robert J., US Department of Transportation, \$268,580, "Development and Implementation of Lightweight Concrete Mixes for KDOT Bridge Applications."

Peterman, Robert J., and Coon, Brian A., Kansas Department of Transportation, \$78,000, "Alleviating Concrete Placement Issues Due to Congestion of Reinforcement in Post-Tensioned Haunch Slab Bridges."

Peterman, Robert J., (see **Coon, Brian A.,** Civil Engineering).

Rasheed, Hayder A., and Esmaily, Asadollah, Kansas Department of Transportation, \$59,000, "Interactive Software for Design, Actual Ultimate Capacity and Health Monitoring of Confined Circular Columns."

Reddi, Lakshmi N., (see **Leven, Blase A.** Center for Hazardous Substance Research).

Reddi, Lakshmi N., (see **Leven, Blase A.** Center for Hazardous Substance Research).

Reddi, Lakshmi N., (see **Leven, Blase A.,** Center for Hazardous Substance Research).

Romanoschi, Stefan A., (see **Coon, Brian A.,** Civil Engineering).

Romanoschi, Stefan A., (see **Hossain, Mustaque A.,** Civil Engineering).

Russell, Eugene R., and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$5,218, "Safety Analysis of Driver Reaction to Alternative Traffic Control Devices at Rail-Highway Grade Crossings."

Russell, Eugene R., (see **Coon, Brian A.,** Civil Engineering).

Steward, David R., (see **Dodds, Walter K.,** Biology).

Stokes, Robert W., US Department of Transportation, \$107,400, "Traffic Assistance Services for Kansas (TASK)."

Stokes, Robert W., (see **Coon, Brian A.,** Civil Engineering).

COMPUTING AND INFORMATION SCIENCES

Amtoft, Torben, (see **Hatcliff, John M.,** Computing and Information Sciences).

Andresen, Daniel A., Erickson, Howard H. (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$72,600, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Andresen, Daniel A., (see **Singh, Gurdip,** Computing and Information Sciences).

Banerjee, Anindya, National Science Foundation, \$200,000, "Access Control and Downgrading in Information Flow Assurance."

Banerjee, Anindya, (see **Hatcliff, John M.,** Computing and Information Sciences).

Banerjee, Anindya, (see **Schmidt, David A.,** Computing and Information Sciences).

DeLoach, Scott A., Gustafson, David A., Hatcliff, John M., and Singh, Gurdip, US Department of Defense, \$219,140, "Test-Bed for Intelligent, Mobile Sensor Applications."

DeLoach, Scott A., and Robby, US Department of Defense, \$163,781, "Organization-Based Model-Driven Development of High-Assurance Multiagent Systems."

DeLoach, Scott A., (see **Singh, Gurdip**, Computing and Information Sciences).

Gustafson, David A., (see **DeLoach, Scott A.**, Computing and Information Sciences).

Hatcliff, John M., Lockheed Martin Corporation, \$25,000, "Integrated Specification and Verification Environment for Component-Based Architectures of Large-Scale Distributed Systems."

Hatcliff, John M., Lockheed Martin Corporation, \$60,000, "Software Technology Initiative - Testing Services."

Hatcliff, John M., National Science Foundation, \$128,661, "Collaborative Research: A Community Resource to Support Controlled Experimentation with Program Analysis and Software Testing Techniques."

Hatcliff, John M., National Science Foundation, \$37,493, "Program Analysis Techniques to Support Dependable Real-time Specification for Java Applications."

Hatcliff, John M., and **Amtoft, Torben**, Rockwell Collins, Inc., \$50,000, "Information Flow Modeling and Analysis."

Hatcliff, John M., **Amtoft, Torben**, and **Banerjee, Anindya**, US Department of Defense, \$149,693, "Integrated Specification and Verification Environment for Component-Based Architectures of Large-Scale Distributed Systems."

Hatcliff, John M., (see **DeLoach, Scott A.**, Computing and Information Sciences).

Hsu, William H., Aldentity Matrix Medical, Inc., \$30,000, "Web Interface for Intelligent Human-Computer Interactive Systems."

Hsu, William H., **Welch, Stephen M.** (Agronomy), **Das, Sanjoy** (Electrical and Computer Engineering), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Roe, Judith L.**, (Agronomy) National Science Foundation, \$15,532, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Neilsen, Mitchell L., US Department of Agriculture, \$20,500, "Software Tools for Hydraulic Structure Design and Analysis - Phase II."

Neilsen, Mitchell L., US Department of Energy, \$40,000, "Solder Interconnect Predictor Model."

Ou, Xinming (Simon), US Department of Energy, \$34,999, "Automatic Control-Network Security Management Using Attack Graphs."

Robby, Lockheed Martin Corporation, \$60,000, "Software Technology Initiative - Thimble Technology."

Robby, National Science Foundation, \$79,991, "Formal, Integrated Analysis Framework for Contract-Based Reasoning of Strong Properties of Open Systems."

Robby, (see **DeLoach, Scott A.**, Computing and Information Sciences).

Schmidt, David A., and **Banerjee, Anindya**, National Science Foundation, \$27,000, "Language-Based Software Security."

Singh, Gurdip, National Science Foundation, \$12,000, "CSR-PDOS: Methodologies for Customization of Distributed Algorithms and Middleware."

Singh, Gurdip, **Andresen, Daniel A.**, **DeLoach, Scott A.**, **Natarajan, Balasubramaniam** (Electrical and Computer Engineering), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$1,818, "CRI: An Experimentation Platform for Developing Customized, Large-Scale Sensor Systems."

Singh, Gurdip, (see **DeLoach, Scott A.**, Computing and Information Sciences).

DEAN OF ENGINEERING

Bitsie-Baldwin, LaVerne, (see **Larson, Nancy J.**, Kansas Industrial Extension Services).

Douglas, Kimberly D., **Larson, Nancy J.** (Kansas Industrial Extension Services), **Bitsie-Baldwin, LaVerne** (Dean of Engineering), and **Davis, Sherry J.** (Kansas Industrial Extension Services), US Environmental Protection Agency, \$7,575, "Pollution Prevention Incentives for States."

Gallagher, Richard R., (see **Kramer, Bradley A.**, Advanced Manufacturing Institute).

Holland, Kenneth M. (Office of International Programs), World Bank, \$1,657,150, "Partnership with Kabul University for Engineering Faculty."

King, Terry S., Multisponsor, \$19,215, "Pre-Enrollment Mathematics and Sciences Tutoring of Minority Engineering Recruits."

King, Terry S., (see **Dyer, Ruth A.**, Office of the Provost).

Larson, Nancy J., Multisponsor, \$1,986, "KINEX Multi-Sponsor."

ELECTRICAL AND COMPUTER ENGINEERING

Carpenter, Kenneth H., US Department of Energy, \$55,006, "Fireset Optimization."

Carpenter, Kenneth H., US Department of Energy, \$25,332, "Integrated Firing-System/Initiation-Train Modeling Enhancement."

Das, Sanjoy, **Welch, Stephen M.** (Agronomy), **Hsu, William H.** (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Roe, Judith L.** (Agronomy), National Science Foundation, \$31,065, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Day, Dwight D., and **Devore, John J.**, US Department of Energy, \$75,000, "Hardware and Software Evaluation, Development, and Testing Supporting a New Generation Computer for Airborne and Space Applications."

Day, Dwight D., and **Natarajan, Balasubramaniam**, Kansas Department of Transportation, \$45,000, "Analysis of Road Condition Data Employing Sensor Fusion and Data Visualization Techniques."

Day, Dwight D., (see **Gruenbacher, Don M.**, Electrical and Computer Engineering).

Devore, John J., (see **Day, Dwight D.**, Electrical and Computer Engineering).

Gruenbacher, Don M., and **Day, Dwight D.**, US Department of Energy, \$57,000, "Quality Dependent Traffic."

Kuhn, William B., National Aeronautics and Space Administration, \$116,555, "Proximity Microtransceiver for Interoperable Mars Communications."

Kuhn, William B., National Aeronautics and Space Administration, \$60,000, "Wide-Band Integrated Si-Based Single Chip TR Module for UHF Radar."

Kuhn, William B., US Department of Energy, \$94,964, "RFIC Development in Peregrine SOS Phase I."

Kuhn, William B., (see **Natarajan, Balasubramaniam**, Electrical and Computer Engineering).

Lewis, Christopher L., **Schinstock, Dale E.** (Mechanical and Nuclear Engineering), and **Thompson, J. Garth** (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, \$25,200, "Modular Wireless Avionics System for Autonomous UAV's."

Miller, Ruth D., and **Gabbard, R. Todd** (Architecture), US Department of Energy, \$50,000, "2007 Solar Decathlon."

Natarajan, Balasubramaniam, and **Kuhn, William B.**, Garmin International, Inc., \$35,575, "Ultra-Wideband Technology for Global Positioning Systems Products."

Natarajan, Balasubramaniam, (see **Day, Dwight D.**, Electrical and Computer Engineering).

Natarajan, Balasubramaniam, Singh, Gurdip (Computing and Information Sciences), **Andresen, Daniel A.** (Computing and Information Sciences), **DeLoach, Scott A.** (Computing and Information Sciences), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$1,212, "CRI: An Experimentation Platform for Developing Customized, Large-Scale Sensor Systems."

Pahwa, Anil, Kansas City Power and Light Company, \$9,756, "Effects of Voltage Reduction on Electrical Load."

Rys, Andrew, Edgar, James H. (Chemical Engineering), **McGregor, Douglas S.** (Mechanical and Nuclear Engineering), National Science Foundation, \$51,030, "Acquisition of a Hall Effect Measurement System for Characterizing Novel Semiconductors."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), **Erickson, Howard H.** (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), and **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), National Science Foundation, \$72,600, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Warren, Steven, (see **Singh, Gurdip**, Computing and Information Sciences).

Young, Stanley E., Kansas Department of Transportation, \$33,948, "Research and Implementation of 3D Highway Modeling Technology."

ENGINEERING EXPERIMENT STATION

Jones, Byron W., Kansas Technology Enterprise Corporation, \$2,000, "ADMRC Administration."

Jones, Byron W., (see **Eckels, Steven J.**, Institute for Environmental Research).

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

Ben-Arieh, David H., (see **Easton, Todd W.**, Industrial and Manufacturing Systems Engineering).

Easton, Todd W., Ben-Arieh, David H., and **Wu, Chih-Hang**, Sprint/United Management Company, \$9,989, "Project Selection Methodology and Tool."

Harnett, R. Michael, US Department of Defense, \$53,992, "Part-Time M.S. Program in Industrial Engineering - Fall 2006."

Harnett, R. Michael, US Department of Defense, \$53,992, "Part-Time M.S. Program in Industrial Engineering - Spring 2007."

Harnett, R. Michael, US Department of Defense, \$29,880, "Part-Time M.S. Program in Industrial Engineering - Summer 2007."

Lei, Shuting, National Science Foundation, \$6,000, "Design and Development of Novel Responsive Cutting Tools for Laser-Assisted Machining and Diagnosis of Structural Ceramics: A Research Integrated Education Career Landscape."

Lei, Shuting, (see **Chang, Zenghu**, Physics).

Pei, Zhijian, Boeing Company, \$15,000, "Ultrasonic Drilling Testing."

Pei, Zhijian, Crystal Technology, Inc., \$35,000, "Development of Advance Fabrication Process of Lithium Niobate - Xiaohong Zhang."

Pei, Zhijian, National Science Foundation, \$51,570, "Fundamental Research on Silicon Wafer Fine Grinding to Foster a Quantum Leap in Manufacturing of Silicon Wafers."

Pei, Zhijian, National Science Foundation, \$16,000, "Innovative Laser-Based Techniques for Characterization of Subsurface Cracks in Semiconductor Wafers."

Pei, Zhijian, National Science Foundation, \$48,535, "Workshop: NSF Proposal Writing Workshop, August 20-21, 2007, University of Alaska."

Pei, Zhijian, National Science Foundation, \$49,950, "Workshops: 2007 NSF Career Proposal Writing Workshop."

Pei, Zhijian, Saint-Gobain, \$75,116, "Abrasive Product Development and Finishing Process Development for Ceramics/Crystals."

Rys, Malgorzata J., Coon, Brian A. (Civil Engineering), **Dissanayake, Sunanda** (Civil Engineering), **Hossain, Mustaque A.** (Civil Engineering), **Najjar, Yacoub M.** (Civil Engineering), **Peterman, Robert J.** (Civil Engineering), **Romanoschi, Stefan A.** (Civil Engineering), **Russell, Eugene R.** (Civil Engineering), and **Stokes, Robert W.** (Civil Engineering), US Department of Transportation, \$30,111, "KSU University Transportation Center: The Sustainability and Safety of Rural Transportation Systems and Infrastructures."

Rys, Malgorzata J., and **Russell, Eugene R.** (Civil Engineering), US Department of Transportation, \$5,218, "Safety Analysis of Driver Reaction to Alternative Traffic Control Devices at Rail-Highway Grade Crossings."

Wu, Chih-Hang, (see **Easton, Todd W.**, Industrial and Manufacturing Systems Engineering).

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven J., Multisponsor, \$289,279, "Institute for Environmental Research Support."

Eckels, Steven J., and **Sorensen, Christopher M.** (Physics), Kansas State University, \$106,250, "Center for Nanostructured Materials for Indoor Air Quality."

Eckels, Steven J., Erickson, Larry E. (Center for Hazardous Substance Research), **Guikema, James A.** (Vice Provost for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$676,292, "Urban Operations Laboratory Research."

Eckels, Steven J., and **Jones, Byron W.**, US Department of Transportation, \$150,000, "Aircraft Recirculation Filter Research for Incident Assessment."

Jones, Byron W., and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Boeing Company, \$593,695, "Sponsor Research Agreement - KSU Project Agreement No. 1."

Jones, Byron W., (see **Eckels, Steven J.**, Institute for Environmental Research).

McCullough, Elizabeth A., US Department of Defense, \$1,000, "Thermal Properties of Military Textile Products."

KANSAS INDUSTRIAL EXTENSION SERVICES

Davis, Sherry J., (see **Larson, Nancy J.**, Kansas Industrial Extension Services).

Johnson, Barbara L., US Environmental Protection Agency, \$13,400, "Beyond Rehab the Lab."

Johnson, Barbara L., (see **Larson, Nancy J.**, Kansas Industrial Extension Services).

Larson, Nancy J., Multisponsor, \$4,032, "KINEX Multi-Sponsor."

Larson, Nancy J., US Environmental Protection Agency, \$45,000, "Pharmaceutical Waste Outreach Project."

Larson, Nancy J., US Environmental Protection Agency, \$47,500, "Region 7 Champions for Change States Partner to Foster PBT and Source Reduction in Region 7 Healthcare Facilities."

Larson, Nancy J., Bhandari, Alok (Civil Engineering), **Bitsie-Baldwin, LaVerne** (Dean of Engineering), and **Johnson, Barbara L.**, US Environmental Protection Agency, \$126,359 (includes \$19,400 from various industries), "Pollution Prevention Incentives for States - FY06."

Larson, Nancy J., Bitsie-Baldwin, LaVerne (Dean of Engineering), **Davis, Sherry J.**, and **Douglas, Kimberly D.** (Dean of Engineering), US Environmental Protection Agency, \$15,379 (includes \$8,040 from industries), "Pollution Prevention Incentives for States."

Larson, Nancy J., (see **Travis, Stephen R.**, Kansas Industrial Extension Services).

Nelson, Richard G., US Department of Energy, \$50,000, "Educational Outreach and Analysis for Expanding Biomass in the Western Governors' Association Region."

Nelson, Richard G., US Department of Energy, \$49,903, "Strategic Development of Bioenergy in the Western States."

Nelson, Richard G., Rice, Charles W. (Agronomy), **Staggenborg, Scott A.** (Northeast Area Office), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Energy, \$96,394, "National Carbon Sequestration Database and Geographic Information System."

Nelson, Richard G., (see **Madl, Ronald L.**, Grain Science and Industry).

Nelson, Richard G., Pfromm, Peter H. (Chemical Engineering), **Amanor-Boadu, Vincent R.** (Agricultural Economics), **Chumley, Forrest G.** (Agricultural Experiment Station), and **Madl, Ronald L.** (Grain Science and Industry), Koch Genesis LLC, \$15,111, "Bio-butanol: Technical and Economical Assessment."

Snead, Bruce C., US Environmental Protection Agency, \$108,000, "National Radon-Focused Risk Reduction Training Project."

Snead, Bruce C., US Environmental Protection Agency, \$182,139 (includes \$4,000 from Kansas County Health and Extension Departments, and \$40,000 from various consultants), "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, \$8,600 (includes \$3,600 from participant contributions), "Radon Workshops."

Snead, Bruce C., US Environmental Protection Agency, \$20,500 (includes \$10,000 from participant contributions), "Radon Workshops for Nebraska."

Snead, Bruce C., US Environmental Protection Agency, \$36,904, "Regional Radon Training Center."

Travis, Stephen R., and **Larson, Nancy J.**, US Environmental Protection Agency, \$1,444, "Region 7 EMS Center for Public Entities."

MECHANICAL AND NUCLEAR ENGINEERING

Babin, Bruce R., BAE Systems, \$26,408, "Spray Cooling."

Babin, Bruce R., US Department of Defense, \$7,000, "Forty-Third AIAA Joint Propulsion Conference Student Design Challenge."

Babin, Bruce R., and **Hosni, Mohammad H.**, Whirlpool Corporation, \$30,000, "Flow Visualization Strategies for Commercial Dryer Drums."

Babin, Bruce R., Tokuhiko, Akira T., US Department of Energy, \$75,024, "Heat Exchanger Studies for Supercritical CO₂ Power Conversion System."

Beck, B. Terry, (see **Tokuhiko, Akira T.**, Mechanical and Nuclear Engineering).

Cai, Liang-Wu, National Science Foundation, \$18,500, "Two-Dimensional Tunable Phononic Materials Research."

Dunn, William L., (see **McGregor, Douglas S.**, Mechanical and Nuclear Engineering).

Eckels, Steven J. (Institute for Environmental Research), **Erickson, Larry E.** (Chemical Engineering), **Guikema, James A.** (Vice Provost for Research and Dean of Graduate School), and **Leven, Blase A.**, US Department of Defense, \$243,465, "Urban Operations Laboratory Research."

Eckels, Steven J., and **Sorensen, Christopher M.** (Physics), Kansas State University, \$100,000, "Center for Nanostructured Materials for Indoor Air Quality."

Hosni, Mohammad H., US Department of Energy, \$25,000, "Innovations in Nuclear Infrastructure and Education."

Hosni, Mohammad H., (see **Babin, Bruce R.**, Mechanical and Nuclear Engineering).

Hosni, Mohammad H., (see **Jones, Byron W.**, Institute for Environmental Research).

Hosni, Mohammad H., Maes, Sue C. (Dean of Continuing Education), and **Anderson, Dawn L.** (Dean of Human Ecology), US Department of Education, \$22,521, "Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education."

Hosni, Mohammad H., (see **O'Halloren, Steven P.**, Mechanical and Nuclear Engineering).

Hosni, Mohammad H., (see **Tokuhiko, Akira T.**, Mechanical and Nuclear Engineering).

Lease, Kevin B., Kansas Technology Enterprise Corporation, \$29,000, "Effects of Cladding and Anodizing on the Fatigue Behavior of Varying Gauge Aluminum Sheet."

McGregor, Douglas S., US Department of Defense, \$211,596, "Vapor Growth and Material Characterization of Mercuric Iodide (HgI₂)."

McGregor, Douglas S., US Department of Energy, \$411,036, "Advanced Materials and Processes for High-Energy-Resolution Room-Temperature-Operated Gamma Ray Spectrometers."

McGregor, Douglas S., US Department of Energy, \$92,407, "Frisch Collar CdZnTe Detectors for a Collimated Array."

McGregor, Douglas S., US Department of Energy, \$299,729, "Improved Growth Methods for LaBr₃ Scintillation Radiation Detectors."

McGregor, Douglas S., Dunn, William L., and **Shultis, J. Kenneth**, National Science Foundation, \$618,283, "IMR-MIP: High-Detection-Efficiency and High-Spatial-Resolution Thermal Neutron Imaging System for the Spallation Neutron Source Using Pixelated Semiconductor Neutron Detectors."

McGregor, Douglas S., Dunn, William L., and **Shultis, J. Kenneth**, US Department of Energy, \$175,000, "Midwest Nuclear Science and Engineering Consortium."

McGregor, Douglas S., Edgar, James H. (Chemical Engineering), and **Rys, Andrew** (Electrical and Computer Engineering), National Science Foundation, \$51,030, "Acquisition of a Hall Effect Measurement System for Characterizing Novel Semiconductors."

O'Halloren, Steven P., and **Hosni, Mohammad H.**, Visteon, \$25,000, "Experimental Measurements and Numerical Simulations of Two-Phase Flow in a T-Junction."

Schinstock, Dale E., (see **Lewis, Christopher L.**, Electrical and Computer Engineering).

Shultis, J. Kenneth, (see **McGregor, Douglas S.**, Mechanical and Nuclear Engineering).

Thompson, J. Garth, (see **Lewis, Christopher L.**, Electrical and Computer Engineering).

Tokuhiro, Akira T., Babin, Bruce R., Beck, B. Terry, and **Hosni, Mohammad H.**, US Department of Energy, \$249,473, "Experimental Development and Demonstration of Ultrasonic Measurement Diagnostics for Sodium Fast Reactor Thermohydraulics."

Wang, Youqi, US Department of Transportation, \$141,601, "Long Term Remote Monitoring of FRP Bridge."

Whaley, Paul M., US Department of Energy, \$38,600, "University Reactor Sharing Program."

White, Warren N., National Science Foundation, \$126,909, "Control of Underactuated Mechanical Systems through Lyapunov Direct Methods."

Zheng, Zhongquan, US Department of Defense, \$61,498, "Flow/Acoustic Characterization of Windscreens of Measurement Microphones in Realistic Atmospheric Conditions."

Zheng, Zhongquan, US Department of Transportation, \$75,974, "Computational Investigation of Acoustic Characteristics Emanating from Contorted Wake Vortices and Associated Hazard Level."

NATIONAL GAS MACHINERY LABORATORY

Chapman, Kirby S., and **Keshavarz, Ali**, Pipeline Research Council International, Inc., \$24,900, "Development of a Turbocharger Booster System."

Chapman, Kirby S., and **Keshavarz, Ali**, Pipeline Research Council International, Inc., \$87,500, "Development of an Active Air Control System."

Keshavarz, Ali, (see **Chapman, Kirby S.**, National Gas Machinery Laboratory).

NATIONAL INSTITUTE FOR LAND MANAGEMENT AND TRAINING

Biles, Bertram R., US Department of Defense, \$317,120, "ITAM FY 2007 Workshop."

Steichen, James M., Hutchinson, Stacy L. (Biological and Agricultural Engineering), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$77,180, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

COLLEGE OF HUMAN ECOLOGY

DEAN OF HUMAN ECOLOGY

Anderson, Dawn L., and **Maes, Sue C.** (Dean of Continuing Education), US Department of Education, \$202,703, "Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education."

Doll, Gayle, Evangelical Lutheran Good Samaritan Society, \$12,014, "Good Samaritan Staffing Pattern Study."

Doll, Gayle, US Department of Health and Human Services, \$627,359 (includes \$206,043 from various professional consultants), "Promoting Excellent Alternatives in Kansas Nursing Homes."

Fink, Carol J., US Department of Agriculture, \$28,827, "Analysis of FY2005 Data and Creation of National Report from Data Reported to Community Nutrition Education Logic Model Online Program Management and Reporting System."

Moxley, Virginia M., Great Plains IDEA Alliance, \$99,915, "Great Plains IDEA Lead Institution."

HOTEL, RESTAURANT, INSTITUTION MANAGEMENT AND DIETETICS

Barrett, Elizabeth B., (see **Canter, Deborah D.**, Hotel, Restaurant, Institution Management and Dietetics).

Canter, Deborah D., Barrett, Elizabeth B., Roberts, Kevin R., Sauer, Kevin L., and **Schrader, Melissa A.**, US Department of Agriculture, \$5,000, "Food Safety Social Marketing Campaign for Young Adults at Kansas State University."

Morosan, Cristian, Lawrence Convention and Visitors Bureau, \$13,314, "Advertising Effectiveness Study."

Morosan, Cristian, Manhattan Convention and Visitors Bureau, \$10,534, "Convention Market Assessment Study."

Roberts, Kevin R., (see **Canter, Deborah D.**, Hotel, Restaurant, Institution Management and Dietetics).

Roberts, Kevin R., Remig, Valentina M. (Human Nutrition), **Bryant, Toni J.**, and **Snyder, Gerry** (Communications), US Department of Agriculture, \$299,633, "Multimedia Food Safety Training Program for Community Based Older Adults."

Sauer, Kevin L., (see **Canter, Deborah D.**, Hotel, Restaurant, Institution Management and Dietetics).

Schrader, Melissa A., (see **Canter, Deborah D.**, Hotel, Restaurant, Institution Management and Dietetics).

Shanklin, Carol W., Kansas State University Foundation, \$3,500, "Perceptions of Customer Satisfaction with the Dining Experiences in Assisted Living Facilities - Amber Howells."

HUMAN NUTRITION

Adhikari, Koushik, (see **Medeiros, Denis M.**, Human Nutrition).

Baybutt, Richard C., Kansas State University Foundation, \$3,000, "Undergraduate Student Cancer Research - Short Chain Omega-3 Fatty Acids."

Baybutt, Richard C., (see **Medeiros, Denis M.**, Human Nutrition).

Bryant, Toni J., (see **Remig, Valentina M.**, Human Nutrition).

Chambers IV, Edgar, Multisponsor, \$390,221, "Sensory Analysis Center Support."

Chambers IV, Edgar, Nutricia North America, \$13,000, "Flavor Formulation Development."

Chambers IV, Edgar, and **Chambers, Delores H.**, Frito Lay, Inc., \$15,000, "Consumer Perception of Products under Extended Use."

Chambers, Delores H., Kansas State University Foundation, \$2,500, "Sensory Characteristics of Meat Jerky and Consumer Preferences for Jerky of Health Conscious and Non-Health Conscious Consumers in Two Countries."

Chambers, Delores H., (see **Chambers IV, Edgar**, Human Nutrition).

Fitzgerald, Karen D., (see **Peters, Paula**, Extension Family and Consumer Sciences).

Haub, Mark D., MGP Ingredients, Inc., \$13,598, "Resistant Start and Exercise on Insulin Sensitivity in Older Adults."

Hudson, Karen S., (see **Peters, Paula**, Extension Family and Consumer Sciences).

Klaahsen, Darcey L., (see **Medeiros, Denis M.**, Human Nutrition).

Medeiros, Denis M., Sunflower Foundation, \$7,913, "Knowledge of Nutrition and Activity for Communities in Kansas."

Medeiros, Denis M., United Methodist Health Ministry Fund, \$7,913, "Knowledge of Nutrition and Activity for Communities in Kansas."

Medeiros, Denis M., US Department of Health and Human Services, \$184,189, "Kansas Bridges to the Future."

Medeiros, Denis M., and **Adhikari, Koushik**, US Department of Agriculture, \$50,000, "Acquisition of Gas Chromatograph-Mass Spectrometer (GC-MS) for the Human Nutrition Department to Study the Quality of Functional Foods."

Medeiros, Denis M., Baybutt, Richard C., Klaahsen, Darcey L., Melgarejo, L. Tonatiuh, and **Wang, Weiqun**, Kansas State University Foundation, \$4,213, "Faculty Equipment Award - Eppendorf Vacufuge Concentrator."

Melgarejo, L. Tonatiuh, Kansas State University Foundation, \$2,500, "Carnivore-Derived Antimicrobial Peptides Applied to Food Packing Materials to Inhibit Foodborne Pathogens on Beef."

Melgarejo, L. Tonatiuh, (see **Medeiros, Denis M.**, Human Nutrition).

Remig, Valentina M., Bryant, Toni J., Roberts, Kevin R. (Hotel, Restaurant, Institution Management and Dietetics), and **Snyder, Gerry** (Communications), US Department of Agriculture, \$299,633, "Multimedia Food Safety Training Program for Community Based Older Adults."

Remig, Valentina M., and **Weeden, Allisha M.**, American Dietetic Association Foundation, \$5,000, "Association Among Dietary Supplement Use, Diet Intake, and Chronic Conditions of Older Adults."

Wang, Weiqun, Kansas State University Foundation, \$3,987, "Differential Profiling of Phospholipids and Related Gene/Protein Expression in Skin Tissues of Body Weight-Controlled Mice for Cancer Prevention."

Wang, Weiqun, Kansas State University Foundation, \$1,331, "Graduate Student Travel Award - Travel to Experimental Biology Annual Meeting."

Wang, Weiqun, (see **Medeiros, Denis M.**, Human Nutrition).

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Bradshaw, Michael H., Kansas Health Foundation, \$534, "Health Promotion for Older Kansans."

Bradshaw, Michael H., US Department of Agriculture, \$9,000, "Healthy Homes Kansas 2007."

DeLuccie, Mary L., US Department of Agriculture, \$11,504, "Federal Aid in Support of the Child and Adult Care Food Program."

DeLuccie, Mary L., US Department of Education, \$4,500, "Early Childhood Unified (B-K) Preservice Program."

DeLuccie, Mary L., USD 383, Manhattan, \$19,824, "Early Childhood Lab."

Fees, Bronwyn S., and **Toland, Susan E.**, US Department of Health and Human Services, \$15,758, "Comparative Analysis of Subsidized and Non-Subsidized Relative Child Care."

Glasscock, Marlene K., US Department of Agriculture, \$515,000, "4-H/Air Force Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, \$1,363,677, "USDA/Army Youth Development Project."

Grable, John E., International Association of Registered Financial Consultants, Inc., \$1,200, "Journal of Personal Finance."

Griffin, Charles L., Kansas Department of Social & Rehabilitation Services, \$555,914, "SRS Organizational Development Training and Curriculum Development."

Griffin, Charles L., and **Olsen, Charlotte S.**, US Department of Agriculture, \$150,000, "Training and Facilitation of Successful Farm Family Businesses and Markets."

Griffin, Charles L., and **Olsen, Charlotte S.**, US Department of Agriculture, \$50,000, "Women Managing the Farm."

Hoag, Linda A., US Department of Health and Human Services, \$90,409, "Communicative Competence and the Use of Prestored Text."

Johannes, Elaine M., (see **Fink, Carol J.**, Four-H Youth Development).

O'Conner, Nancy T., and **White, Mark B.**, US Department of Health and Human Services, \$173,909, "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

Olsen, Charlotte S., (see **Griffin, Charles L.**, School of Family Studies and Human Services).

Schumm, Walter R., Kansas Commission on Veterans Affairs, \$2,610, "Stressors for Recently Deployed Kansas Veterans."

Schumm, Walter R., US Department of Defense, \$87,015, "Relationship Stress and Chaplaincy Support Among Mid-Level Career U.S. Army Officers."

Toland, Susan E., (see **Fees, Bronwyn S.**, School of Family Studies and Human Services).

White, Mark B., (see **O'Conner, Nancy T.**, School of Family Studies and Human Services).

COLLEGE OF TECHNOLOGY AND AVIATION

DEAN OF COLLEGE OF TECHNOLOGY AND AVIATION

Kuhlman, Dennis K., Schwan Food Company, \$24,000, "Phase 1: Green Manufacturing Opportunities."

SALINA ENGINEERING TECHNOLOGY

Dandu, Raju, De Leon, John E., Khan, Saeed M., Leite, Jose Pedro T., and **Morse, Julia L.**, National Science Foundation, \$500,000, "Enhancing Lives through Technology and Engineering (ELITE) Program."

De Leon, John E., (see **Dandu, Raju**, Salina Engineering Technology).

Khan, Saeed M., (see **Dandu, Raju**, Salina Engineering Technology).

Leite, Jose Pedro T., (see **Dandu, Raju**, Salina Engineering Technology).

Morse, Julia L., (see **Dandu, Raju**, Salina Engineering Technology).

COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Blecha, Frank, Ross, Chris R., and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, \$364,000, "Porcine Antimicrobial Peptides and Toll-Like Receptors in PRRSV Pathogenesis."

Blecha, Frank, (see **Freeman, Lisa C.**, Anatomy and Physiology).

Blecha, Frank, (see **Lillich, James D.**, Clinical Sciences).

Erickson, Howard H., American Association of Equine Practitioners, \$25,000, "Can Conjugated Estrogens and Aminocaproic Acid Reduce EIPH?"

Erickson, Howard H., and **Poole, David C.**, Racing Medication and Testing Consortium, \$25,000, "Can Conjugated Estrogens and Aminocaproic Acid Reduce EIPH?"

Erickson, Howard H., Andresen, Daniel A. (Computing and Information Sciences), **Poole, David C.** (Anatomy and Physiology), **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$52,800, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Fong, Peying, Cystic Fibrosis Foundation, \$70,436, "Epithelial Sodium Channel Mutations in the Genesis of CF-like Disease."

Freeman, Lisa C., and **Blecha, Frank**, Merck Company Foundation, \$46,372, "Veterinary Research Scholars." (2 awards)

Freeman, Lisa C., and **Blecha, Frank**, US Department of Health and Human Services, \$26,211, "Basic Research Immersion Training Experience (BRITE) Veterinary Student Program."

Freeman, Lisa C., **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), National Science Foundation, \$14,775, "Collaborative Research for Data-Driven Analysis of Interdisciplinary Research Teams."

Freeman, Lisa C., and **Marcus, Daniel C.**, US Department of Health and Human Services, \$54,409, "Short-Term Training Students in Health Professional Schools."

Kukanich, Stanley P., Farnam Companies, Inc., \$15,116, "Efficacy of an Extended Release Injectable Analgesic in Dogs Using the von Frey Model."

Kukanich, Stanley P., (see **Freeman, Lisa C.**, Dean of Veterinary Medical Center).

Kumari, Meena, US Department of Health and Human Services, \$255,179, "Ethanol-Induced NMDA R1 mRNA Stabilization."

Marcus, Daniel C., and **Wangemann, A. Philine**, US Department of Health and Human Services, \$360,267, "Cochlear and Vestibular Ion Transport."

Marcus, Daniel C., (see **Freeman, Lisa C.**, Anatomy and Physiology).

Marcus, Daniel C., (see **Wangemann, A. Philine**, Anatomy and Physiology).

Musch, Timothy I., American Heart Association, Heartland Affiliate, \$71,500, "Skeletal Muscle Microvascular Oxygen Delivery and Fatigue in Aging: Effects of Antioxidants."

Poole, David C., (see **Andresen, Daniel A.**, Computing and Information Sciences).

Poole, David C., (see **Erickson, Howard H.**, Anatomy and Physiology).

Ross, Chris R., (see **Blecha, Frank**, Anatomy and Physiology).

Schultz, Bruce D., Cystic Fibrosis Foundation, \$75,000, "Neuroendocrine-Modulated Epithelial HCO₃-Transport."

Schultz, Bruce D., and **Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$28,643, "Model Synthetic Channel Assemblies."

Tamura, Masaaki, and **Troyer, Deryl L.**, Joan's Legacy: The Joan Scarangelo Foundation, \$50,000, "IFN-Beta Expressing Stem Cell Therapy for Bronchioalveolar Carcinoma."

Troyer, Deryl L., **Davis, Duane L.** (Animal Sciences and Industry), **Coffman, James R.** (Clinical Sciences), **Minton, J. Ernest** (Animal Sciences and Industry), and **Weiss, Mark L.** (Anatomy and Physiology), Kansas State University, \$175,000, "Scientific Enhancement of the Midwest Institute for Comparative Stem Cell Biology."

Troyer, Deryl L., (see **Tamura, Masaaki**, Anatomy and Physiology).

Wangemann, A. Philine, and **Marcus, Daniel C.**, US Department of Health and Human Services, \$310,250, "Cellular Regulation of Cochlear Blood Flow."

Wangemann, A. Philine, and **Marcus, Daniel C.**, US Department of Health and Human Services, \$313,860, "Cytosolic Regulation of Inner Ear Ion Transport."

Wangemann, A. Philine, and **Hua, Duy H.** (Chemistry), American Heart Association, Heartland Affiliate, \$35,750, "Synthesis and Bioevaluation of Myriceric Acid A and its Analogs."

Wangemann, A. Philine, (see **Marcus, Daniel C.**, Anatomy and Physiology).

Weiss, Mark L., Kansas City Area Life Sciences Institute, \$24,750, "Transgenic Rats Created via Rat Embryonic Stem Cell Technology."

Weiss, Mark L., Kansas State University Foundation, \$50,000, "Northeast Kansas Parkinson Association Research Fund."

Weiss, Mark L., US Department of Health and Human Services, \$263,753, "Neural Circuitry of the Kidney."

Weiss, Mark L., (see **Cain, Mary E.**, Psychology).

Weiss, Mark L., (see **Davis, Duane L.**, Animal Sciences and Industry).

CLINICAL SCIENCES

Anderson, David E., (see **White, Bradley J.**, Clinical Sciences).

Apley, Michael D., Schering-Plough Animal Health Corporation, \$57,898, "Use of Computerized Tomography Scanning to Evaluate Lung Pathology in Calves."

Beard, Warren L., (see **Freeman, Lisa C.**, Dean of Veterinary Medical Center).

Coetzee, Johann F., (see **Hollis, Larry C.**, Animal Sciences and Industry).

Coffman, James R., (see **Davis, Duane L.**, Animal Sciences and Industry).

Davis, Elizabeth G., (see **Lillich, James D.**, Clinical Sciences).

Fingland, Roger B., Friends of the Sunset Zoo, \$4,000, "Sunset Zoo Internship Program."

Grauer, Gregory F., Schering-Plough Animal Health Corporation, \$366,445, "Tepoxalin Treatment for Osteoarthritis in Dogs with Chronic Kidney Disease: Acute and Longer-Term Effects of Treatment on Kidney Disease and Kidney Function."

Grauer, Gregory F., and **Sanderson, Michael W.**, Mark Morris Institute, \$20,500, "Comparison of Student Learning Resulting from Traditional Lecture Teaching vs. Case-Based, Problem-Based Teaching."

Grauer, Gregory F., (see **Rush, Bonnie R.**, Clinical Sciences).

Hodgson, David S., US Agency for International Development, \$159,029, "Advancing Afghan Agricultural Alliance (A4)."

Jones, Phillip D., (see **Lillich, James D.**, Clinical Sciences).

Larson, Robert L., Agri Food Certification, LLC, \$588,896, "Agri-Food Auditor Training."

Lillich, James D., **Blecha, Frank** (Anatomy and Physiology), **Davis, Elizabeth G.**, and **Jones, Phillip D.**, Kansas City Area Life Sciences Institute, \$25,000, "In vitro and Ex vivo Assessment of a Novel Lipopolysaccharide Binding Pharmacophore."

Rush, Bonnie R., Saint George's University, \$40,944, "Clinical Training for St. George's University."

Sanderson, Michael W., US Department of Agriculture, \$6,163, "Kansas Johnnes Work Plan 2007."

Sanderson, Michael W., (see **Grauer, Gregory F.**, Clinical Sciences).

Sanderson, Michael W., (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

Schermerhorn, Thomas, Waltham Center for Pet Nutrition, \$15,000, "Development of a Clinically Useful In vivo Sampling Method for Studying Expression of Genes Involved in Feline Hepatic Glucose Metabolism."

Schermerhorn, Thomas, (see **Swanson, Janice C.**, Animal Sciences and Industry).

Thomson, Daniel U., and **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), Epitopix, LLC, \$83,500, "Effects of Siderophore Receptor and Porin Proteins Vaccine Technology on Pre-harvest Control and Shedding E. coli O157:H7 in Cattle."

Thomson, Daniel U., **Reinhardt, Christopher D.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Animal Sciences and Industry), Kansas State University, \$490,000, "Beef Cattle Institute at Kansas State University."

White, Bradley J., **Anderson, David E.**, **Mosier, Derek A.** (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Schering-Plough Animal Health Corporation, \$64,535, "Serial Evaluation of Physiological and Pathological Changes Related to Disease Progression in Experimentally Induced Mannheimia Respiratory Disease in Feeder Calves."

DEAN OF VETERINARY MEDICAL CENTER

Carter, Bart B., Intervet, Inc., \$75,451, "Immunogenicity of Streptococcus equi."

Freeman, Lisa C., **Beard, Warren L.** (Clinical Sciences), and **Kukanich, Stanley P.** (Anatomy and Physiology), Morris Animal Foundation, \$4,000, "Effects of Flunixin Meglumine on the Ex-Vivo Protein Binding of Lidocaine in Horses - Sarah Waxman."

Freeman, Lisa C., and **Nagaraja, Tiruvoor G.** (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$7,088, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training."

Willard, Gayle K., State Library of Kansas, \$8,000, "Kansas Library ILDP Animals in Society."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

Anderson, Gary A., Sate of Nebraska, \$10,740, "Rabies Testing for the State of Nebraska."

Anderson, Gary A., Novartis Corporation, \$5,000, "Retrospective Study to Determine the Longevity of Serological Titers after Pre-Exposure Vaccination with Purified Chick Embryo Cell Rabies Vaccine (PCECV)."

Anderson, Gary A., US Department of Agriculture, \$15,411, "Classical Swine Fever Surveillance."

Anderson, Gary A., US Department of Agriculture, \$27,500, "Pseudorabies Laboratory Testing."

Anderson, Gary A., US Department of Health and Human Services, \$30,000, "Laboratory Response Network."

Anderson, Gary A., US Department of Health and Human Services, \$40,000, "Avian Flu Hotline."

Anderson, Gary A., and **Stockham, Steven L.**, US Department of Agriculture, \$50,000, "NAHLN: KS."

Anderson, Gary A., (see **Minton, J. Ernest**, Animal Sciences and Industry).

Anderson, Gary A., (see **Tafanelli, Lee E.**, National Agricultural Biosecurity Center).

Chang, Kyeong-Ok, US Department of Health and Human Services, \$163,554, "Replication of Noroviruses in Cell Culture."

Chang, Kyeong-Ok, and **Rowland, Raymond R. R.**, National Pork Board, \$7,500, "Development of Stable Cell Lines Permissive for PRRSV Replication and Production."

Dritz, Steven S., (see **DeRouchey, Joel M.**, Animal Sciences and Industry).

Dritz, Steven S., (see **Minton, J. Ernest**, Animal Sciences and Industry).

Dritz, Steven S., (see **Nelssen, Jim L.**, Animal Sciences and Industry).

Dritz, Steven S., (see **Rowland, Raymond R. R.**, Diagnostic Medicine/Pathobiology).

Dritz, Steven S., (see **Tokach, Michael D.**, Animal Sciences and Industry).

Dryden, Michael W., Fort Dodge Animal Health, \$80,738, "Efficacy of a Single Dose of a Topically Applied Spot-on Formulation of Metaflumizone Combined with Amitraz to Repel, Prevent Attachment and Kill Amblyomma americanum and Dermacentor variabilis."

Dryden, Michael W., Pfizer Inc., \$231,739, "Rate of Kill of Fipronil, Imidacloprid and Selamectin Spot-ons against Flea Infestations on Dogs."

Dryden, Michael W., Summit VetPharm LLC, \$50,150, "Comparative Residual Efficacy of Summit VetPharm DTE and Frontline Plus (Fipronil/(S)-Methoprene) against Fleas with Reduced Susceptibility to Fipronil on Cats."

Ganta, Roman Reddy R., US Department of Health and Human Services, \$30,000, "American Society for Rickettsiology Conference 2006."

Ganta, Roman Reddy R., US Department of Health and Human Services, \$18,338, "Replication of Noroviruses in Cell Culture-Mentor."

Ganta, Roman Reddy R., **Chapes, Stephen K.** (Biology), and **Wilkerson, Melinda**, US Department of Health and Human Services, \$159,050, "Cellular Immunity Against Ehrlichia chaffeensis."

Kastner, Justin J., **Freeman, Lisa C.** (Anatomy and Physiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), National Science Foundation, \$14,341, "Collaborative Research for Data-Driven Analysis of Interdisciplinary Research Teams."

Kastner, Justin J., **Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Food Science Institute), US Department of Agriculture, \$60,000, "Development of a National Educational and Outreach Program for Food Safety and Food Defense."

Kastner, Justin J., (see **Phebus, Randall K.**, Animal Sciences and Industry).

Mosier, Derek A., (see **White, Bradley J.**, Clinical Sciences).

Nagaraja, Tiruvoor G., **Drouillard, James S.** (Animal Sciences and Industry), **Narayanan, Sanjeevkumar**, and **Renter, David G.**, Kansas Beef Council, \$42,500, "Distiller's Grains and Food-borne Pathogens in Cattle: Interaction and Intervention."

Nagaraja, Tiruvoor G., **Drouillard, James S.** (Animal Sciences and Industry), **Narayanan, Sanjeevkumar**, and **Renter, David G.**, National Cattlemen's Beef Association, \$42,500, "Distiller's Grains and Food-Borne Pathogens in Cattle: Interaction and Intervention."

Nagaraja, Tiruvoor G., **Oberst, Richard D.**, **Renter, David G.**, **Sanderson, Michael W.** (Clinical Sciences), and **Zurek, Luděk** (Entomology), US Department of Agriculture, \$373,384, "Ecology of E. coli O157:H7 in Beef Cow-Calf Operations from Ranch to Feedlot."

Nagaraja, Tiruvoor G., and **Drouillard, James S.** (Animal Sciences and Industry), Kemira Phosphates Ltd., \$22,630, "Evaluation of Megasphaera elsdenii as a Competitive Inhibitor to Reduce Fecal Shedding of Escherichia coli O157 in Naturally Infected Cattle."

Nagaraja, Tiruvoor G., **Drouillard, James S.** (Animal Sciences and Industry), and **Renter, David G.**, Kansas Beef Council, \$18,375, "Strategies to Address Adverse Effects of Distiller's Grain on Prevalence of E. coli O157:H7 in Feedlot Cattle."

Nagaraja, Tiruvoor G., (see **Freeman, Lisa C.**, Dean of Veterinary Medical Center).

Nagaraja, Tiruvoor G., (see **Thomson, Daniel U.**, Clinical Sciences).

Narayanan, Sanjeevkumar, (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

Nietfeld, Jerome C., (see **Rowland, Raymond R. R.**, Diagnostic Medicine/Pathobiology).

Oberst, Richard D., (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

Oberst, Richard D., (see **Tafanelli, Lee E.**, National Agricultural Biosecurity Center).

Oberst, Richard D., (see **Vanier, Martha A.**, National Agricultural Biosecurity Center).

Pickrell, John A., (see **Maghirang, Ronaldo G.**, Biological and Agricultural Engineering).

Powell, Douglas A., Phebus, Randall K. (Animal Sciences and Industry), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), American Meat Institute Foundation, \$47,500, "Beyond Intent: Assessment and Validation of On-Package Handling and Cooking Instructions for Uncooked, Breaded Poultry Products to Promote Consumer Practices that Reduce Foodborne Illness Risks."

Renter, David G., (see **Drouillard, James S.**, Animal Sciences and Industry).

Renter, David G., (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

Renter, David G., (see **White, Bradley J.**, Clinical Sciences).

Robertson, Donald C., (see **Minton, J. Ernest**, Animal Sciences and Industry).

Rowland, Raymond R. R., National Pork Board, \$56,950, "Identification of a Peptide Sequence in NSP2 that can Function as a Deletion Marker for the Differentiation of Vaccinated from Naturally Infected Pigs."

Rowland, Raymond R. R., Pfizer Inc., \$39,879, "To Evaluate the Safety and Attenuation Level of PRRSV Strains, Which were Genetically Modified in the NSP2 Region, in Young Pigs."

Rowland, Raymond R. R., US Department of Agriculture, \$39,591, "Long Term PRRSV Persistence: Understanding the Mechanisms Involved in Controlling, Regulating, and Predicting PRRSV Persistence."

Rowland, Raymond R. R., and **Dritz, Steven S.**, US Department of Agriculture, \$39,007, "Role of Inflammatory Cytokines in Growth Performance during PRRSV Infection."

Rowland, Raymond R. R., and **Nietfeld, Jerome C.**, National Pork Board, \$15,000, "Kansas Cluster of Severe PMWS Cases: Characterization of a Novel PCV2 as the Possible Etiological Agent."

Rowland, Raymond R. R., (see **Blecha, Frank**, Anatomy and Physiology).

Rowland, Raymond R. R., (see **Chang, Kyeong-Ok**, Diagnostic Medicine/Pathobiology).

Rowland, Raymond R. R., (see **Wyatt, Carol R.**, Diagnostic Medicine/Pathobiology).

Spire, Mark F., Andresen, Daniel A. (Computing and Information Sciences), **Erickson, Howard H.** (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$22,000, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Stockham, Steven L., (see **Anderson, Gary A.**, Diagnostic Medicine/Pathobiology).

Wilkerson, Melinda, (see **Fleming, Sherry D.**, Biology).

Wilkerson, Melinda, (see **Ganta, Roman Reddy R.**, Diagnostic Medicine/Pathobiology).

Wyatt, Carol R., and **Rowland, Raymond R. R.**, National Pork Board, \$46,149, "Exploring PRRS Virus GP5 Peptides for Protective Cross-Reactive T Cell Epitopes."

Wyatt, Carol R., (see **Fleming, Sherry D.**, Biology).

VETERINARY MEDICAL TEACHING HOSPITAL

Arck, Shirley T., University of Kansas, \$7,200, "Pharm.D. Clerkship."

Fingland, Roger B., City of Manhattan, Kansas, \$13,500, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

OFFICE OF THE PRESIDENT

AUDITORIUM

Martin, Richard P., National Foundation on the Arts and the Humanities, \$8,014, "2006-07 Performance Series."

Martin, Richard P., National Foundation on the Arts and the Humanities, \$5,000, "Mozart Opera Festival."

Martin, Richard P., National Foundation on the Arts and the Humanities, \$5,000, "National Philharmonic of Russia."

BEACH ART MUSEUM

Render, Lorne E., National Foundation on the Arts and the Humanities, \$8,014, "Beach Museum of Art General Opening Support, 2007."

Render, Lorne E., and **Schlageck, Kathrine W.**, National Foundation on the Arts and the Humanities, \$7,500, "Growing up ARTSmart at the Beach Museum of Art."

Render, Lorne E., and **Schlageck, Kathrine W.**, National Foundation on the Arts and the Humanities, \$7,500, "Sandzen to Sudlow: Beach Museum of Art Curriculum Development Project."

Schlageck, Kathrine W., (see **Render, Lorne E.**, Beach Art Museum).

VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

DEPARTMENT OF HOUSING

Ring, Debra J., and **Bosco, Pat J.** (Office of Student Life), US Department of Education, \$125,522, "K-State Childcare Access Means Parents in School (KCAMPIS)."

EDUCATIONAL AND PERSONAL DEVELOPMENT

Greene, Kathleen V., US Department of Education, \$240,043, "Ronald E. McNair Post-Baccalaureate Achievement Program."

Greene, Kathleen V., US Department of Education, \$274,712, "Student Support Services."

Greene, Kathleen V., US Department of Education, \$211,478, "Student Support Services - KSU Salina."

Lynch, Michael L., US Department of Education, \$255,743, "Upward Bound Math and Science Program."

Lynch, Michael L., US Department of Education, \$220,000, "Upward Bound Program - Salina Campus."

Turner, Margaret A., US Department of Agriculture, \$8,135, "Kansas State University Upward Bound - Summer Food Service Program."

Turner, Margaret A., US Department of Education, \$414,116, "Upward Bound Program."

OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT

Gordon, Myra E., and **Ehie, Ike C.** (Management), US Agency for International Development, \$250,000, "Advancing Economic Development in Nigeria through Strengthening Business Management Education and Technology Competence."

OFFICE OF STUDENT LIFE

Bosco, Pat J., (see **Ring, Debra J.**, Department of Housing).

UNIVERSITY COUNSELING SERVICES

Arck Jr., William, City of Manhattan, Kansas, \$28,400, "Youth Oriented Alcohol Abuse Prevention Program."

OFFICE OF THE PROVOST

CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT

Procter, David E., Council on Public Policy Education, \$5,000, "Encouraging Public Deliberation through the Institute for Civic Discourse and Democracy."

Procter, David E., Kettering Foundation, \$10,000, "Role of Deliberative Forums in Community Politics."

Procter, David E., and **Tolar, Mary H.** (Educational Leadership), Kettering Foundation, \$1,200, "College Student Political Engagement Study."

Steichen, Ethel M., Corporation for National and Community Service, \$44,918, "Evaluation for the Corporation for National and Community Service-Funded Service-Learning Project."

INTERNATIONAL PROGRAMS

Holland, Kenneth M., Canadian Department of Foreign Affairs and International Trade, \$19,717, "Canadian Studies Program Enhancement."

Holland, Kenneth M., Peace Corps, \$15,800, "Peace Corps Recruitment."

Holland, Kenneth M., World Bank, \$1,999,430, "Partnership between Balkh University and Kansas State University to Strengthen the Department of English."

Holland, Kenneth M., World Bank, \$2,397,989, "Partnership with Kabul University Department of English."

Holland, Kenneth M., World Bank, \$3,186,826, "Partnership with Kabul University for Engineering Faculty."

LIBRARY

Allen, David B., (see **Zolnerowich, Gregory**, Entomology).

Haddock, Michael J., (see **Zolnerowich, Gregory**, Entomology).

Schenck-Hamlin, Donna C., Kansas Humanities Council, \$2,000, "Democracy Dialogs 2006: Freedom of Information: Principles, Laws, and Citizen Use."

OFFICE OF THE PROVOST

Dyer, Ruth A., **King, Terry S.** (Dean of Engineering), **Montelone, Beth A.** (Dean of Arts and Sciences), **Unger, Elizabeth A.** (Vice Provost for Academic Services and Technology), and **White, Stephen E.** (Dean of Arts and Sciences), National Science Foundation, \$690,341, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY

DEAN OF CONTINUING EDUCATION

Maes, Sue C., (see **Anderson, Dawn L.**, Dean of Human Ecology).

Retzlaff, Deanna D., (see **Getty, Kelly J. K.**, Food Science Institute).

EDUCATIONAL COMMUNICATIONS CENTER

Chastain, Melvin L., US Environmental Protection Agency, \$12,900, "Broadcast Training Session for Spill Prevention, Control and Countermeasure (SPCC) Regulations."

VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY

Unger, Elizabeth A., (see **Dyer, Ruth A.**, Office of the Provost).

VICE PROVOST FOR RESEARCH AND DEAN OF THE GRADUATE SCHOOL

NATIONAL AGRICULTURAL BIOSECURITY CENTER

Tafanelli, Lee E., **Anderson, Gary A.** (Diagnostic Medicine/ Pathobiology), **Oberst, Richard D.** (Diagnostic Medicine/ Pathobiology), and **Vanier, Martha A.**, US Department of Agriculture, \$487,360, "High Throughput Robotics Validation and Equivalency Testing."

Tafanelli, Lee E., (see **Vanier, Martha A.**, National Agricultural Biosecurity Center).

Vanier, Martha A., US Department of Agriculture, \$5,600, "Open Source Information Collection and Analysis (OSICA) System."

Vanier, Martha A., US Department of Defense, \$4,536,000, "Infrastructure Support for the KSU Biosecurity Research Institute Facility."

Vanier, Martha A., **Oberst, Richard D.** (Diagnostic Medicine/ Pathobiology), **Phebus, Randall K.** (Animal Sciences and Industry), and **Tafanelli, Lee E.**, US Department of Defense, \$3,444,550, "Biosecurity Research Institute at Kansas State University: Facilities, Methods and Technologies to Determine Real-Time Biohazards in Foods and to Validate Technology Readiness."

Vanier, Martha A., and **Fleming, Sherry D.** (Biology), US Department of Defense, \$35,753, "Targeted Complement Inhibition of Hemorrhage Induced Damage and Inflammation."

Vanier, Martha A., (see **Tafanelli, Lee E.**, National Agricultural Biosecurity Center).

OFFICE OF THE VICE PROVOST FOR RESEARCH

Trewyn, R. W., Kansas State University Research Foundation, \$471,670, "KSU Research Foundation Staff Compensation."

VICE PROVOST FOR RESEARCH AND DEAN OF GRADUATE SCHOOL

Guikema, James A., National Aeronautics and Space Administration, \$2,000, "Kansas NASA EPSCoR 2000 Program."

Guikema, James A., (see **Erickson, Larry E.**, Center for Hazardous Substance Research).

Shanklin, Carol W., **Harrington, Lisa M.** (Geography), **Archer, Allen W.** (Geology), **Goodin, Douglas G.** (Geography), **Harrington Jr., John A.** (Geography), **Hubbard, Mary S.** (Geology), **Hutchinson, J. M. Shawn** (Geography), **Oviatt, Charles G.** (Geology), and **Uhlarik, John J.** (Psychology), National Aeronautics and Space Administration, \$4,200, "Kansas Space Grant Consortium."

BIOTECHNOLOGY DESIGN LABORATORY

Tomich, John M., Multisponsor, \$53,559, "Biotechnology Laboratory Support."

ELECTRONICS DESIGN LABORATORY

Sobering, Timothy J., Multisponsor, \$203,252, "Electronics Design Laboratory Support."

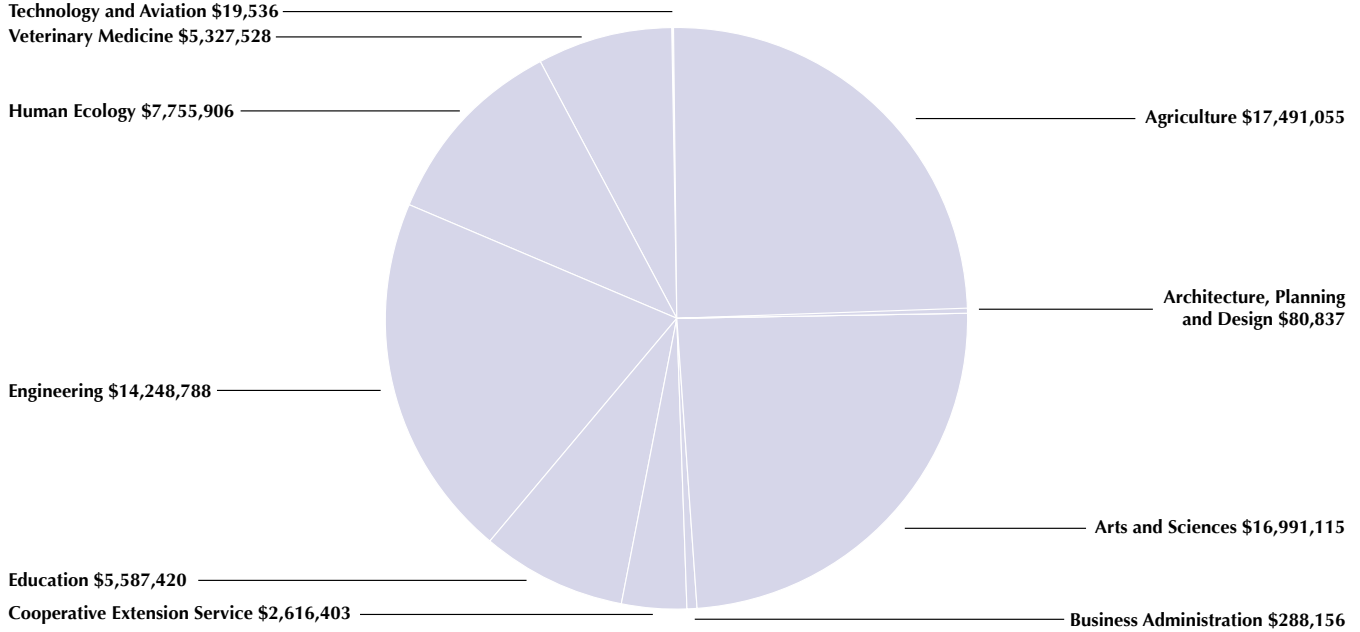
Sobering, Timothy J., (see **Taylor, Russell D.**)

Taylor, Russell D., and **Sobering, Timothy J.**, Kintec, Inc., \$1,359, "General Maintenance for Digital Brake Controller - Phase 3."

SECTION 2: EXPENDITURES

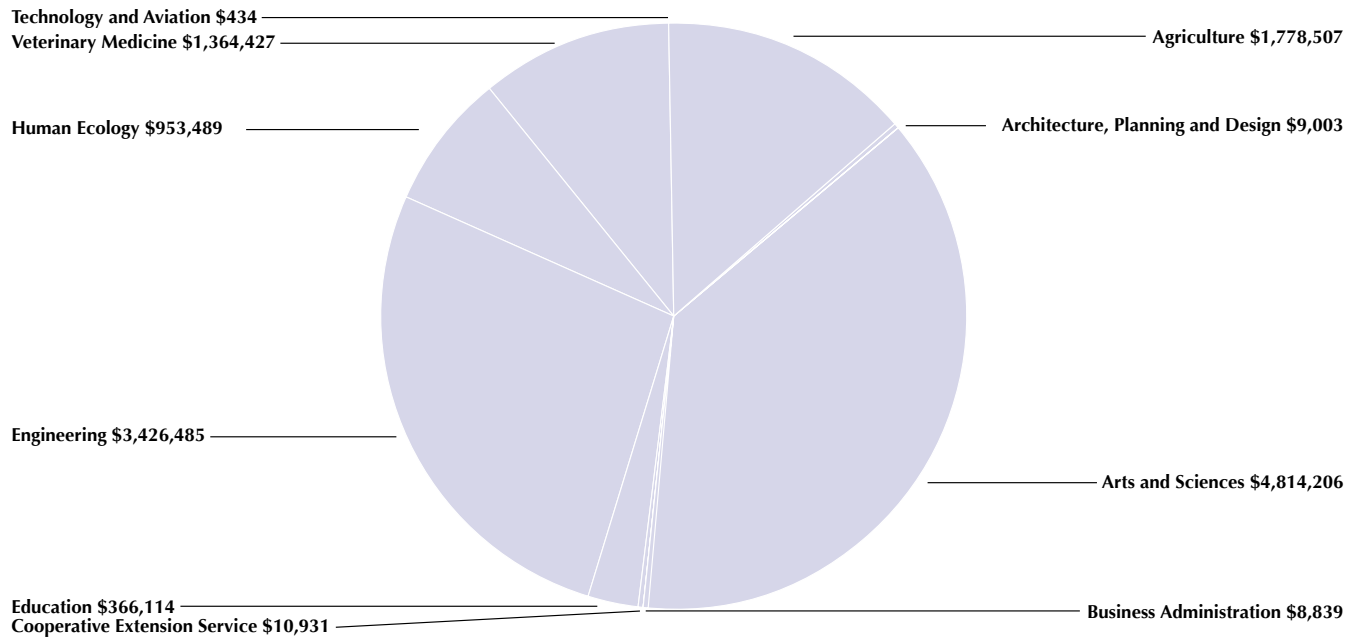
DIRECT COST EXPENDITURES BY COLLEGE AND EXTENSION*

Fiscal Year 2007



FACILITIES AND ADMINISTRATIVE COST RECOVERY BY COLLEGE AND EXTENSION*

Fiscal Year 2007



*Note: Data provided by the KSU Controller's Office, Sponsored Projects Accounting

EXPENDITURES FOR SPONSORED EXTRAMURAL FUNDING BY COLLEGE AND EXTENSION DEPARTMENT*

Fiscal Year 2007

College of Agriculture	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of Agriculture and Director of AES	18,661.44	0.00	18,661.44
Agricultural Economics	1,436,600.17	237,490.86	1,674,091.03
Agronomy	3,596,714.52	395,767.54	3,992,482.06
Animal Sciences and Industry	1,531,390.93	193,878.05	1,725,268.98
Communications	215,742.51	18,612.57	234,355.08
Entomology	1,381,989.66	167,098.51	1,549,088.17
Grain Science and Technology	1,237,664.34	161,539.37	1,399,203.71
Horticulture, Forestry and Recreation Resources	278,157.01	12,933.03	291,090.04
Plant Pathology	4,556,123.77	444,120.17	5,000,243.94
Kansas Center for Ag. Resource & Env.	857,563.80	85,347.65	942,911.45
Agricultural Experiment Station	1,147,033.18	55,848.12	1,202,881.30
Northwest Research Extension Center	151,126.64	1,229.96	152,356.60
Agricultural Research Center-Hays.	309,717.56	0.00	309,717.56
Southwest Research Extension Center	151,609.10	657.50	152,266.60
Southeast Agricultural Research Center	91,440.86	0.00	91,440.86
Food Science Institute	529,520.39	3,984.06	533,504.45
Total-College of Agriculture	17,491,055.88	1,778,507.39	19,269,563.27
College of Architecture and Design			
Architecture.	34,629.27	7,270.03	41,899.30
Landscape Architecture/Regional &Community Plan.	46,208.57	1,733.65	47,942.22
Total-College of Architecture & Design.	80,837.84	9,003.68	89,841.52
College of Arts and Sciences			
Dean of Arts and Sciences.	366,567.61	29,186.52	395,754.13
Biochemistry	1,694,424.52	532,503.92	2,226,928.44
Biology	7,089,694.81	1,922,968.92	9,012,663.73
Chemistry	1,419,870.15	344,927.61	1,764,797.76
Geography.	210,787.75	63,861.40	274,649.15
Geology	49,272.43	17,965.82	67,238.25
History	10,171.40	0.00	10,171.40
James R. MacDonald Laboratory	1,816,974.63	753,635.91	2,570,610.54
School of Journalism and Mass Communication	128,719.79	1,015.74	129,735.53
Mathematics	304,720.76	95,419.78	400,140.54
Music	30,256.73	0.00	30,256.73
Kinesiology	14,283.75	1,295.48	15,579.23
Physics	3,101,275.31	897,743.56	3,999,018.87
Political Science	5,031.74	2,314.63	7,346.37
Psychology	299,763.56	62,700.20	362,463.76
Sociology, Anthropology, & Social Work	125,052.14	14,432.62	139,484.76
Speech, Communications, Theatre and Dance.	2,748.60	0.00	2,748.60
Statistics	45,738.93	6,857.41	52,596.34
Community Health Institute.	275,760.86	67,376.82	343,137.68
Total-College of Arts and Sciences	16,991,115.47	4,814,206.34	21,805,321.81

College of Business Administration	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of Business Administration	208,034.50	1,262.41	209,296.91
Accounting	65,581.66	0.00	65,581.66
Management	14,540.43	7,576.72	22,117.15
Total-College of Business Administration	288,156.59	8,839.13	296,995.72

Cooperative Extension Services

Director of Cooperative Extension	78,258.75	0.00	78,258.75
4-H Youth Development	139,428.18	0.00	139,428.18
Extension Communication	1,161.02	0.00	1,161.02
Kansas Forest Service	1,670,115.75	10,937.39	1,681,053.14
Agriculture and Natural Resources	605,726.23	0.00	605,726.23
Northwest Area Office	22,627.73	0.00	22,627.73
Southwest Area Office	33,727.58	0.00	33,727.58
Northeast Area Office	56,728.14	0.00	56,728.14
Southeast Area Office	8,629.79	0.00	8,629.79
Extension Office of Community Health	0.00	(6.18)	(6.18)
Total-Cooperative Extension Services	2,616,403.17	10,931.21	2,627,334.38

College of Education

Dean of Education	5,117,884.59	338,045.92	5,455,930.51
Educational Leadership	160,127.66	3,737.27	163,864.93
Special Education	184,633.21	22,960.61	207,593.82
Secondary Education	124,774.69	1,371.12	126,145.81
Total-College of Education	5,587,420.15	366,114.92	5,953,535.07

College of Engineering

Dean of Engineering	223,599.64	96,056.50	319,656.14
Biological & Agricultural Engineering	1,462,445.21	102,990.76	1,565,435.97
Chemical Engineering	526,138.38	140,081.73	666,220.11
Civil Engineering	1,377,954.38	304,424.47	1,682,378.85
Computing & Information Sciences	1,275,422.52	358,147.74	1,633,570.26
Electrical & Computer Engineering	563,562.53	167,438.96	731,001.49
Engineering Experiment Station	1,782.92	182.00	1,964.92
Institute for Environmental Research	657,687.51	233,482.98	891,170.49
Industrial & Manufacturing Systems Engineering	384,237.33	133,362.10	517,599.43
Mechanical and Nuclear Engineering	2,207,362.98	569,084.14	2,776,447.12
Advanced Manufacturing Institute	2,411,798.10	372,120.07	2,783,918.17
Kansas Industrial Extension Services	803,639.13	144,621.36	948,260.49
Center for Hazardous Substance Research	1,443,218.36	502,032.73	1,945,251.09
National Institute for Land Management & Training	594,436.28	183,743.72	778,180.00
National Gas Machinery Laboratory	315,502.79	118,716.60	434,219.39
Total-College of Engineering	14,248,788.06	3,426,485.86	17,675,273.92

College of Human Ecology

Dean of Human Ecology	5,056,680.61	608,796.83	5,665,477.44
Apparel, Textiles and Interior Design	0.00	0.01	0.01
Hotel, Restaurant, Institution Management & Dietetics	128,673.73	29,067.66	157,741.39
Human Nutrition	695,924.90	129,226.07	825,150.97
School of Family Studies & Human Services	1,874,626.90	186,398.94	2,061,025.84
Total-College of Human Ecology	7,755,906.14	953,489.51	8,709,395.65

College of Technology	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of College of Tech and Aviation	9,919.06	0.00	9,919.06
Aviation.	1,669.78	434.14	2,103.92
Engineering Technology.	7,947.32	0.00	7,947.32
Total-Salina College of Technology	19,536.16	434.14	19,970.30
Veterinary Medical Center			
Dean of Veterinary Medical Center	111,198.70	15,615.17	126,813.87
Anatomy and Physiology.	2,670,946.59	776,487.11	3,447,433.70
Diagnostic Medicine/Pathobiology	1,534,184.56	403,943.52	1,938,128.08
Clinical Sciences.	1,006,177.62	165,581.75	1,171,759.37
Veterinary Medical Teaching Hospital	5,020.56	2,800.00	7,820.56
Total-Veterinary Medical Center.	5,327,528.03	1,364,427.55	6,691,955.58
Grand Total	70,406,747.49	12,732,439.73	83,139,187.22

UNIVERSITY SMALL RESEARCH GRANTS

University Small Research Grants are awarded by the Office of Research and Sponsored Programs to support the research, scholarly activity and other creative efforts of tenure-track faculty members.

Fall 2006 Awards

Clark, George, Geology, \$1,000; Research organic matrix similarities among extant and extinct animal groups and the origins of calcified skeletons.

Davis, Elizabeth, Clinical Sciences, \$1,500; Perform research on molecular cloning and gene expression of equine TLR.7"

Esmaily, Asadollah, Civil Engineering, \$1,500; Investigate the effect of sustained load on the elastic modulus and stress-strain relationship of confined concrete, to develop a mathematical model to predict this behavior.

Fallon, Elizabeth, Kinesiology, \$3,100; Identify and redesign physical activity and nutrition educational materials for use in primary care offices serving rural Latina women in southwest Kansas.

Frey, Timothy, Special Education, \$1,500; Develop an observation system for teacher engaged in professional development.

Hillard, Derek, Modern Languages, \$1,900; Travel to Germany to examine archival materials required for a proposed book on sacrifice in German literature and theory 1800-1930 (Sacrificial Selves); Deutsches Literaturarchiv, Marbach.

Hubbell, Amy, Modern Languages, \$3,500; Attend commemorative ceremonies and conferences and conduct research and interviews in France to produce "Reconstructing the Past: The Pieds-Noirs 45 Years after Algerian Independence."

Klein, Rupert, Psychology, \$2,000; Study the role of self-complexity and the delay of conscious recognition.

Kolonosky, Walter, Modern Languages, \$500; First installment of biography interview entitled "Towards a Biography of A.D. Sinyavsky: The Paris Years 1973-1997."

Kraft, Stefan, Chemistry, \$800; Perform research on the ion selective perchlorate receptors for catalytic degradation of perchlorate.

Kulcsar, Laszlo, Sociology, Anthropology, and Social Work, \$1,500; Study migration networks in rural Kansas.

Lee, Kyoungmi, Marketing, \$1,200; Research the impact of negative stereotypes toward females on their decision processes.

Loschky, Lester, Psychology, \$1,500; Perform a study to determine "is localized information necessary to recognize real world sciences?"

Martinez, Maria, Modern Languages, \$1,500; Study the women from indigenous communities in the regions surrounding San Cristobal de las Casas in Mexico.

McCrea, Heather, History, \$1,000; Obtain regionally and nationally produced publications and photograph documents held at the Archive Historico de Salud y Salubridad in order to finish manuscript.

Muturi, Nancy, Journalism and Mass Communications, \$3,000; A pilot study entitled "social-cultural factors in health literacy development for HIV/AIDS prevention among minority women."

Rayat, Sundeep, Chemistry, \$500; Perform research on neurotoxic effects of 5-cysteinylnorepinephrine and its role in the pathogenesis of Parkinson's disease.

Scuilla, Jason, Art, \$5,000; Artist in Residence at the Quadrato Di Omega printmaking studio in Italy.

Selfa, Theresa, Sociology, Anthropology, and Social Work, \$3,500; Research the local water governance systems in Western Kansas: balancing needs for water conservation and economic development in rural communities.

Siepl-Coates, Susanne, Architecture, \$2,200; Present poster session at the world congress on design and health; UK.

Smith, Donald "Kim", English, \$2,200; Perform research at Huntington Library.

Vontz, Thomas, Elementary Education, \$1,200; Study the status of social studies: a survey of elementary teachers in Kansas.

Weyher, Lothar, Sociology, Anthropology, and Social Work, \$1,500; Study culture, class, and social change: Immigrant labor in Kansas.

Westman, Karin, English, \$1,000; Research Harry Potter in context at J.K. Rowling's Library.

Spring 2007 Awards

Adhikari, Koushik, Human Nutrition, \$2,500; Can proteomics be used to screen super-tasters?

Bopp, Melissa, Kinesiology, \$2,000; Research entitled "Understanding influences on physical activity participation in a population of Kansas Hispanics."

Chikan, Viktor, Chemistry, \$1,000; Research entitled "Melting Au/Fe core/shell metal nanoparticles on silicon for catalyzing radial nanowire and nanotube growth."

Coetzee, Johann, Clinical Sciences, \$2,500; Research the use of plasma substance P and Cortisol as pharmacodynamic measures of analgesia following xylazine and ketamine administration to bulls prior to castration.

Dodd, Elizabeth C, English, \$1,000; Study the Big Horn medicine wheel.

Frey, Timothy, Special Education, \$2,500; Enhancing project-based on-line practicum experiences through use of digital video.

Garavito, C. L., Modern Languages, \$2,000; Attend summer intensive study program at Carl Jung Institute, Switzerland.

Harrington, Lisa, Geography, \$1,500; Produce narratives of southeastern Louisiana Hurricane Katrina evacuees and non-evacuees.

Harris, Richard, Psychology, \$1,300; Determine the effects of pressure and working memory capacity on second-language reading comprehension.

Hedrick, Donald, English, \$1,200; Research the seventeenth-century "water poet," John Taylor, at the Folger Shakespeare Library, Washington, DC.

Hoff, Derek, History, \$1,500; Study entitled "Are we too many: the population debate and policymaking in the 20th-century United States."

Kozar, Joy, Apparel, Textiles, and Interior Design, \$1,500; study women's responses to current fashion models: a study of middle-aged female consumers.

Krysko, Michael, History, \$1,500; Research on "American radio interests in China from 1919-1955."

Kulcsar, Laszlo, Sociology, Anthropology, and Social Work, \$2,500; Conduct research on aging as an opportunity: Retirement migration patterns and community development in Nemaha County, Kansas.

Morosan, Cristian, Hotel, Restaurant, Institution Management and Dietetics, \$1,000; An empirical investigation of the demand for eco-tourism in Kansas.

Sandercock, Brett, Biology, \$1,500; study the population genetics of a newly established island population of Ptarmigan.

Sauter, Silvia, Modern Languages, \$1,000; International Symposium -- Center of Narratology Studies: Creation and projection of narrative discourse; International Congress -- Possible worlds: New paradigms, Peru.

Sellers, Debra, Family Studies and Human Services, \$3,500; Research entitled "Sage advice: Understanding ageism."

Steffensmeier, Timothy, Speech Communication, Theatre and Dance, \$2,000; Invention through public deliberation: Analyzing rural rejuvenation efforts of "Kansas Communities, LLC."

Tatonetti, Lisa, English, \$2,000; "From Ghost Dance to Grass Dance: Post-Indian resistance in American Indian literatures."

Teagarden, James, Secondary Education, \$1,500; Continue middle-school overall screening technique (MOST) part 2.

With, Kimberly, Biology, \$3,000; Study on using landscape genetics of an elusive predator to assess predation risk and ecological traps for grassland birds.

Zhu, Yun, Apparel, Textiles, and Interior Design, \$700; Perform research entitled "Color and design participation as factors in a studio environment."

FACULTY DEVELOPMENT AWARDS

Faculty Development Awards are awarded by the Office of Research and Sponsored Programs and serve primarily as travel awards. They can be used for travel to international meetings, travel for foreign exchange, travel to the offices of potential external funding sponsors, and as matching funds on certain fellowships. They cannot be used for research travel.

Fall 2006 Awards

An, Soontae, Journalism and Mass Communications, \$900; To present at the American Academy of Advertising Asia Conference in Korea.

Arana, Andrew, Philosophy, \$1,250. To present at the Conference in Philosophy of Mathematics in France.

Arnds, Peter, Modern Languages, \$500; To present at the Comparative Literature Association conference in Mexico.

Burrack, Frederick, Music, \$1,000; To present at the Colloquium of Instrumental Music Teacher Education.

Caragea, Doina, Computing and Information Sciences, \$2,700; To present at the Artificial Intelligence International Conference in India.

Gould, Thomas, Journalism and Mass Communications, \$2,000; To present at the International Conference on Technology, Knowledge and Society in England.

Janette, Michele, English, \$500; To participate in a foreign exchange with Charles University in the Czech Republic.

Jin, Hyun, Journalism and Mass Communications, \$900; To present at the American Academy of Advertising Asia Conference in Korea.

Marcus, Daniel, Anatomy and Physiology, \$500; To present at the Otologic Society Meeting in Korea.

Pagadala, Venkata, Agronomy, \$1,000; To present at the Nano Technology Conference in Egypt.

Pentz, Julie, Speech Communication, Theatre and Dance, \$1,400; To attend the Estada Internacional de Dansa performance tour of Cataluna.

Senanayake, Muditha, Apparel, Textiles, and Interior Design, \$2,300; To present at the Concept to Consumer Textile Institute Conference in Sri Lanka.

Shanteau, James, Psychology, \$1,000; To present at the International Conference on Applications of Functional Measurement in Psychology in Italy.

Soibelman, Yan, Mathematics, \$750; To participate in foreign travel exchange in France.

Wangemann, Philine, Anatomy and Physiology, \$500; To present at the Otologic Society Meeting in Korea.

Wood, Naomi, English, \$1,900; To present at the International Symposium in France.

Spring 2007 Awards

Anthony, Jennifer, Chemical Engineering, \$2,200; To present at the International Zeolite Conference in China.

Asano, Katsura, Biology, \$1,500; To present at the Conference for RNA Society of Japan.

Ben-Arieh, David, Industrial and Manufacturing Systems Engineering, \$1,500; To present at the International Conference on Production Research in Chile.

Berry, Vikas, Chemical Engineering, \$2,500; To present at the Trends in Nanotechnology Conference in Spain.

Edgar, James, Chemical Engineering, \$1,000; To present at the Workshop on Bulk Nitride Semiconductors in Brazil.

Edzell, John, Philosophy, \$1,200; To present at the Congress of Philosophy of Law and Social Philosophy in Poland.

Frey, Marsha, History, \$1,000; To present at the Society for French Historical Studies, Scotland, and German Historical Institute in England.

Hall, Dean, English, \$1,500; To present at the International Conference on New Directions in the Humanities in France.

Hamilton, James, Philosophy, \$1,000; To present at the Performing Literature Conference in United Kingdom.

Hillard, Derek, Modern Languages, \$500; To receive an Award at the German Studies Association meeting in California.

Janda, Swinder, Business Administration, \$800; To present at the International Conference on Marketing of the Athens Institute for Education and Research in Greece.

Jankowiak, Ryszard, Chemistry, \$1,500; To present at the PS07 Light Harvesting Systems Workshop in Scotland.

Mahoney, Jon, Philosophy, \$1,300; To present at the World Congress on Law and Social Philosophy in Poland.

Margolies, David, Entomology, \$500; To present at the IOBC Global Working Group.

Martinez, Maria, Modern Languages, \$500; To present at the Swiss Gender History Conference in Switzerland.

McCrea, Heather, History, \$1,500; To present at the Latin American Scholars Association Meeting in Canada.

Michaud, John, Agriculture and Natural Resources, \$1,500; To present at the Ecology of "Aphidophaga 10" International Symposium in Greece.

Morgan, Theodore, Biology, \$350; To present at the Ecological Genetics conference in Austria.

Muturi, Nancy, Journalism and Mass Communications, \$2,000; To present at the Association of Mass Communication Research Convention in France.

Nel, Philip, English, \$2,500; To present at the Congress of the International Research Society for Children's Literature in Japan.

Parker, Craig, Music, \$1,500; To present at the Congress of the International Musicological Society, Switzerland and College Music Society International Conference in Thailand.

Pierzynski, Gary, Agronomy, \$1,000; To present at the International Conference on Biogeochemistry of Trace Elements in China.

Ramm, Alexander, Mathematics, \$2,000; To present at the World Congress of Engineering in the United Kingdom.

Selfa, Theresa, Sociology, Anthropology, and Social Work, \$2,000; To present at the European Society for Rural Sociology Conference in the Netherlands.

Spencer, Joel, Geology, \$500; To present at the Luminescence and Electron Spin Resonance Dating Conference in England.

Walton, Krista, Chemical Engineering, \$2,000; To present at the International Zeolite Conference in China.

UNIVERSITY DISTINGUISHED PROFESSORS

JOHN M. BLAIR, Biology (2006)
FRANK BLECHA, Anatomy and Physiology (2001)
M. CHENGAPPA, Diagnostic Medicine/Pathobiology (2003)
C. LEWIS COCKE, Physics (1997)
GARY W. CONRAD, Biology (1998)
ROBIN DENELL, Biology, (2000)
L. T. FAN, Chemical Engineering (1987)
BIKRAM S. GILL, Plant Pathology (1997)
DAVID HARTNETT, Biology (2004)
DALE HERSPRING, Political Science (2007)
JONATHAN HOLDEN, English (1988)
DUY HUA, Chemistry (2007)
YOSHIRO IKEDA, Art (2004)
HONGXING JIANG, Physics (2004)
MICHAEL R. KANOST, Biochemistry (2005)
KENNETH KLABUNDE, Chemistry (1988)
ALAN KNAPP, Biology (2002)
CHII-DONG LIN, Physics (1990)
ROBERT D. LINDER, History (2003)
DAVID LITTRELL, Music (2001)
DANIEL C. MARCUS, Anatomy and Physiology (2006)
JAMES L. MARSDEN, Regents Distinguished Professor of Animal Sciences (1994)
RICHARD A. MARSTON, Geography (2006)
SUBBARATNAM MUTHUKRISHNAN, Biochemistry (2007)
E. WAYNE NAFZIGER, Economics (1999)
VINCENT ORTIZ, Chemistry (2004)
HARALD E.L. PRINS, Anthropology (2005)
TALAT RAHMAN, Physics (2001)
SONNY RAMASWAMY, Entomology (2004)
PATRICK RICHARD, Cortelyou-Rust Distinguished Professor of Physics (1988)
TOM ROCHE, Biochemistry (2002)
SADAHIRO SAEKI, Mathematics (1988)
DAVID A. SCHMIDT, Computing and Information Sciences (2003)
JAMES SHANTEAU, Psychology (2005)
TED SCHROEDER, Agricultural Economics (2004)
CHRISTOPHER SORENSEN, Physics, (2000)
BRIAN S. SPOONER, Biology (1999)
MICHAEL W. SULEIMAN, Political Science (1990)
LARRY TAKEMOTO, Biology (2001)
BARBARA VALENT, Plant Pathology (2002)
DEAN ZOLLMAN, Physics (2001)

A COMPLETE LISTING, INCLUDING UNIVERSITY DISTINGUISHED PROFESSORS EMERITUS, APPEARS AT
WWW.KSU.EDU/GRAD/FACULTY/GRADPRO.HTM

RECIPIENTS OF THE DISTINGUISHED GRADUATE FACULTY AWARD

The Distinguished Graduate Faculty Award is made annually to those faculty members who have distinguished themselves nationally and internationally for their excellence in research and graduate education. Normally, up to two faculty members are selected annually by a group of faculty peers. Recipients receive an honorarium and deliver a public lecture following selection for this award.

JOHN F. HELM Architecture and Applied Arts 1955-56
HILMER H. LAUDE Agronomy 1955-56

ALVIN B. CARDWELL Physics 1956-57
CHARLES H. SCHOLER Applied Mechanics 1956-57

HOWARD T. HILL Speech 1957-58
ARTHUR D. WEBER College of Agriculture 1957-58

CHARLES M. CORRELL History 1958-59
LEON R. QUINLAN Landscape Architecture 1958-59

FRANCIS D. FARRELL President Emeritus 1959-60
FRED L. PARRISH History 1959-60

KLING L. ANDERSON Agronomy 1960-61
HOLLY C. FRYER Statistics 1960-61

A. M. GUHL Zoology 1961-62
H. HENLEY HAYMAKER Botany 1961-62

ROBERT KATZ Physics 1962-63

ERLE E. BARTLEY Dairy and Poultry Science 1963-64

ROY LANGFORD Psychology 1964-65

V. D. FOLTZ Bacteriology 1965-66

BREWSTER ROGERSON English 1966-67

JOHN A. JOHNSON Grain Science and Industry 1967-68

R. KENNETH BURKHARD Biochemistry 1968-69

CLIFTON E. MELOAN Chemistry 1969-70

ROBIN HIGHAM History 1970-71

ANGELO C. GARZIO Art 1971-72

L. T. FAN Chemical Engineering 1972-73

IVAN D. TEARE Agronomy 1973-74

STANLEY E. LELAND Veterinary Pathology 1974-75

RICHARD CONSIGLI Biology 1975-76

DUDLEY WILLIAMS Physics 1976-77

FREDERICK W. OEHME Surgery and Medicine 1977-78

ELMER G. HEYNE Agronomy 1978-79

DONALD W. SETSER Chemistry 1979-80

JAMES F. SHEPARD Plant Pathology 1980-81

ROGER FEDDE Anatomy and Physiology 1981-82

NASIR AHMED Electrical Engineering 1982-83

WILLIAM FATELEY Chemistry 1983-84

BURTON I. KAUFMAN History 1984-85

PATRICK RICHARD Physics 1984-85

JONATHAN HOLDEN English 1985-86

HORST LEIPOLD Pathology 1985-86

TERRY C. JOHNSON Biology 1986-87

MICHAEL W. SULEIMAN Political Science 1986-87

CORNELIA BUTLER FLORA Sociology 1987-88

RICHARD N. MCDONALD Chemistry 1987-88

MARGO KREN Art 1988-89

GERALD R. REECK Biochemistry 1988-89

BIKRAM S. GILL Plant Pathology 1989-90

PATRICIA J. O' BRIEN Sociology, Anthropology and Social Work 1989-90

BRIAN S. SPOONER Biology 1990-91

BENJAMIN R. TILGHMAN Philosophy 1990-91

ALBERT N. HAMSCHER History 1991-92

KENNETH J. KLABUNDE Chemistry 1991-92

C. LEWIS COCKE Physics 1992-93

JANE A. WESTFALL Anatomy and Physiology 1992-93

ROBIN E. DENELL Biology 1993-94

JOHN J. IANDOLO Pathology and Microbiology 1993-94

DONALD J. MROZEK History 1993-94

THEODORE L. HOPKINS Entomology 1994-95

THOMAS E. ROCHE Biochemistry 1994-95

GARY W. CONRAD Biology 1995-96

JAN E. LEACH Plant Pathology 1995-96

E. WAYNE NAFZIGER Economics 1995-96

ALEXANDER G. RAMM Mathematics 1996-97

CHRISTOPHER M. SORENSEN Physics 1996-97

FRANK BLECHA Anatomy and Physiology 1997-98

TALAT RAHMAN Physics 1997-98

ROLLIN SEARS Agronomy 1997-98

LARRY TAKEMOTO Biology 1998-99

MARSHA FREY History 1999-2000

ERIC MAATA Chemistry 1999-2000

GEORGE KEISER English 2000-01

PAUL SEIB Grain Science and Industry 2000-01

SCOT H. HULBERT Plant Pathology 2001-02

JOSEPH VINCENT ORTIZ Chemistry 2001-02

LARRY E. ERICKSON Chemical Engineering 2002-03

JAMES SHANTEAU Psychology 2002-03

DALE HERSPRING Political Science 2003-04

DAVID NORMAN Agricultural Economics 2003-04

DALLAS JOHNSON Statistics 2004-05

DUY HUA Chemistry 2004-05

EDGAR CHAMBERS IV Human Nutrition 2005-06

ALLEN FEATHERSTONE Agricultural Economics 2005-06

SUBBARAT MUTHUKRISHNAN Biochemistry 2006-07

PHILINE WANGEMANN Anatomy and Physiology 2006-07

U.S. PATENTS

Issued from July 1, 2006 to June 30, 2007 to the KSU Research Foundation

(Listed in reverse chronological order)

Scott C. Todd and **Paul W. Baures** "Compositions and Methods for the Treatment of Hepatitis C Virus Infection" (#7,208,628)

Hongxing Jiang, Tom N. Oder and **Jingyu Lin** "Nitride Microlens" (#7,193,784)

Sanjay Kapil and **Kumar Shanmukhappa** "Identification and Applications of Porcine Reproductive and Respiratory Syndrome Virus Host Susceptibility Factor(s) for Improved Swine Breeding and Development of a Non-Simian Recombinant Cell Line for Propagation of the Virus and a Target for a Novel Class of Antiviral Compounds" (#7,175,984)

Daryl Real, Michael D. Tokach, Steve S. Dritz, Jim L. Nelssen, Robert D. Goodband, Jason Woodworth and **Kevin Q. Owen** "Method of Enhancing Reproductive Performance in Sows" (#7,169,770)

Alan Collmer, James R. Alfano, Xiaoyan Tang, C. Robin Buell and **Gregory B. Martin** "Nucleic Acids Encoding Pseudomonas Hop Proteins and Use Thereof" (#7,138,569)

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FISCAL YEAR 2007

Agricultural Economics

Amanor-Baodu, Vincent
Barkley, Andrew
Boland, Michael
Crespi, John
Dhuyvetter, Kevin
Jones, Rodney
Kastens, Terry
Langemeier, Michael
Mintert, James
Peterson, Hikaru
Peterson, Jeffrey
Schroeder, Ted
Williams, Jeffery

Agronomy

Al-Khatib, Kassim
Claassen, Mark
Dille, Johanna A.
Fick, Walter
Fritz, Allan
Gordon, Walter
Ham, Jay
Heer, William
Janssen, Keith
Kirkham, Mary Beth
Kluitenberg, George
Knapp, Mary
Maddux, Larry
Martin, Victor
Mengel, David
Nelson, Nathon
Owensby, Clenton
Pierzynski, Gary
Ransom, Michel
Regehr, David
Rice, Charles
Rozenboom, Kraig
Schaffer, Vernon
Schapaugh, William
Staggenborg, Scott
Stone, Loyd
Tuinstra, Mitchel
Welch, Stephen

Animal Sciences and Industry

Beyer, R. Scott
Blasi, Dale
Bormann, Jennifer
Davis, Duane
DeRouchey, Joel
Dikeman, Michael
Drouillard, James
Fung, Daniel
Goodband, Robert
Hancock, Joe Dan
Herald, Thomas
Hollis, Larry
Hunt, Melvin
Johnson, Brad
Minton, J. Ernest

Moser, Daniel
Nelssen, Jim
Phebus, Randall
Reinhardt, Christopher
Smith, J. Scott
Stevenson, Jeffery
Swanson, Janice
Titgemeyer, Evan
Tokach, Mike
Unruh, John

Food Science Institute

Kastner, Curtis
Getty, Kelly

Communications

Baldwin, Will
Terry, Roger

Entomology

Broce, Alberto
Buschman, Lawrent
Cloyd, Ray
Harvey, Tommy
Michaud, John
Nechols, James
Park, Yoonseong
Reese, John
Smith, C. Michael
Wilde, Gerald
Whitworth, Robert J.
Zhu, Kun Yan
Zolnerowich, Greg
Zurek, Ludek

Grain Science and Industry

Alavi, Sajid
Behnke, Keith
Faubion, Jon
Gwirtz, Jeff
Howard, John
Madl, Ron
McKinney, Leland
Shi, Yong-Cheng
Sun, Susan

Horticulture, Forestry, and Recreation Resources

Bremer, Dale
Carey, Edward
Fry, Jack
Griffin, Jason
Keeley, Steven
Rajashakar, Channa
Reid, William
St. John, Rodney
Stevens, Alan
Williams, Kimberly

Plant Pathology

Bockus, William
Garrett, Karen
Gill, Bikram
Jardine, Douglas
Kennelly, Megan
Leslie, John
Nelson, James
Stack, James
Trick, Harold
Todd, Timothy
Valent, Barbara
White, Frank

ARCH-Hays

Coyne, Patrick
Kofoid, Kenneth
Martin, Terry J.
Seifers, Dallas
Stahlman, Phillip

NWREC-Colby

Aiken, Robert
Lamm, Freddie

SWREC-Garden City

Currie, Randall
Holman, John
Klocke, Norman
Schlegel, Alan

SEREC-Parsons

Kelly, Kenneth
Long, James
Moyer, Joseph

Biochemistry

Kanost, Michael
Muthukrishnan, S.
Prakash, Om
Reeck, Gerald
Roche, Thomas
Takemoto, Delores
Tomich, John
Wei, Quze
Zolkiewska, Anna
Zolkiewski, Michal
Zufferey, Rachel

Biology

Asano, Katsuro
Blair, John
Brown, Susan
Chapes, Stephen
Clem, Rollie
Denell, Robin
Dodds, Walter
Ferguson, Carolyn
Gido, Keith
Hartnett, David
Passarelli, A. Lorena
Shah, Jyoti
Welti, Ruth

Community Health

Dzewaltowski, David

Biological & Agriculture Engineering

Barnes, Philip
Hutchinson, Stacey
Koelliker, James
Maghirang, Ronald
Mankin, Kyle
Steichen, James
Wang, Donghai
Zhang, Naiqian

Civil Engineering

Bhandari, Alok
Reddi, Laksmi

Human Nutrition

Baybutt, Richard
Chambers IV, Edgar
Haub, Mark
Medeiros, Denis
Wang, Weiqun

HRIMD

Canter, Deborah

Anatomy & Physiology

Blecha, Frank
Schultz, Bruce
Troyer, Deryl

Diagnostic Medicine \ Pathobiology

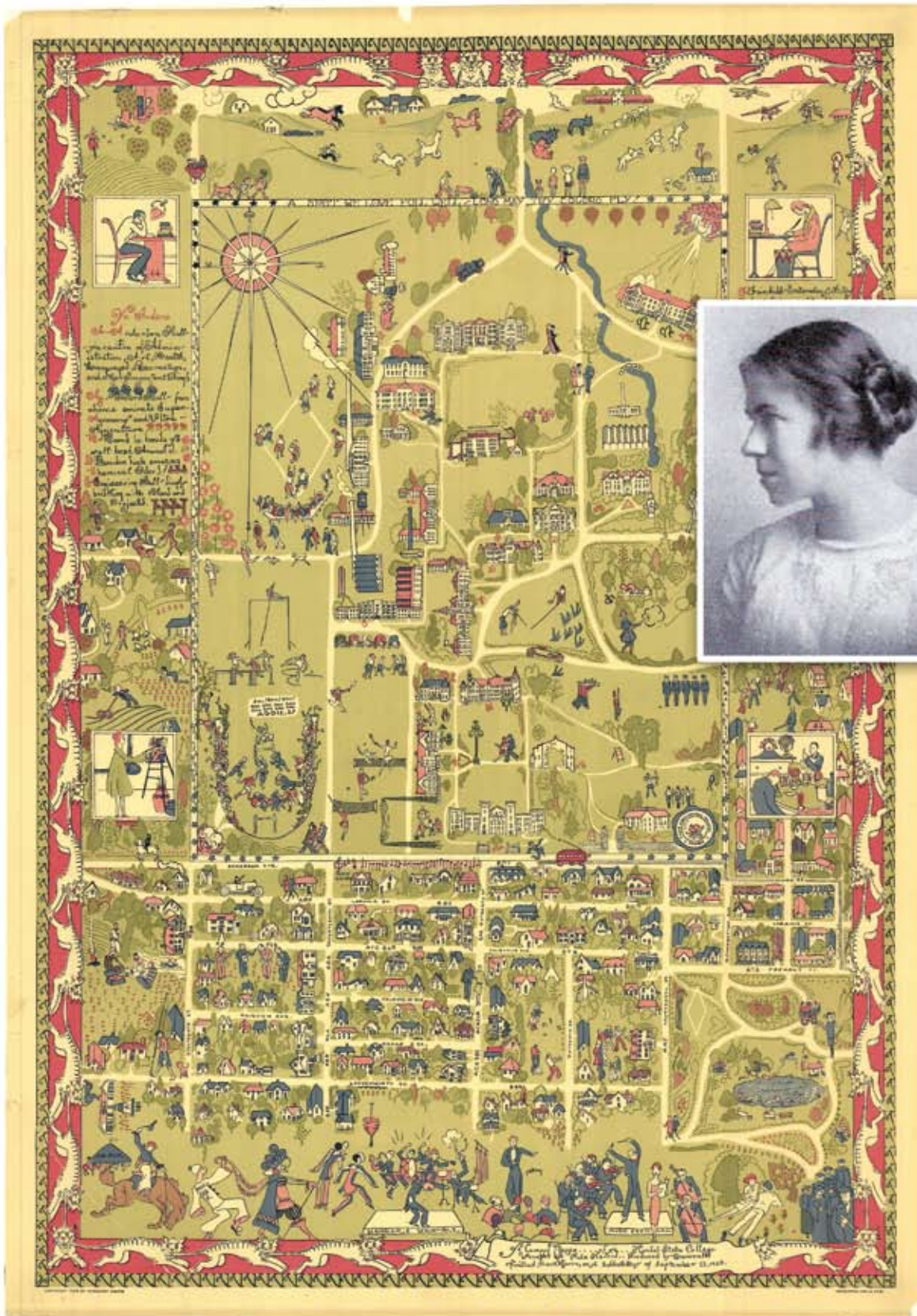
Chang, Kyeong-Ok
Chengappa, M. M.
Chowdhury, Shafiqul
Dritz, Steven
Dryden, Michael
Ganta, Roman
Moro, Manuel
Mosier, Derek
Nagaraja, Tiruvor
Oberst, Richard
Pickrell, John
Renter, David
Robertson, Donald
Rowland, Raymond
Wyatt, Carol

Clinical Sciences

Thomson, Daniel

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