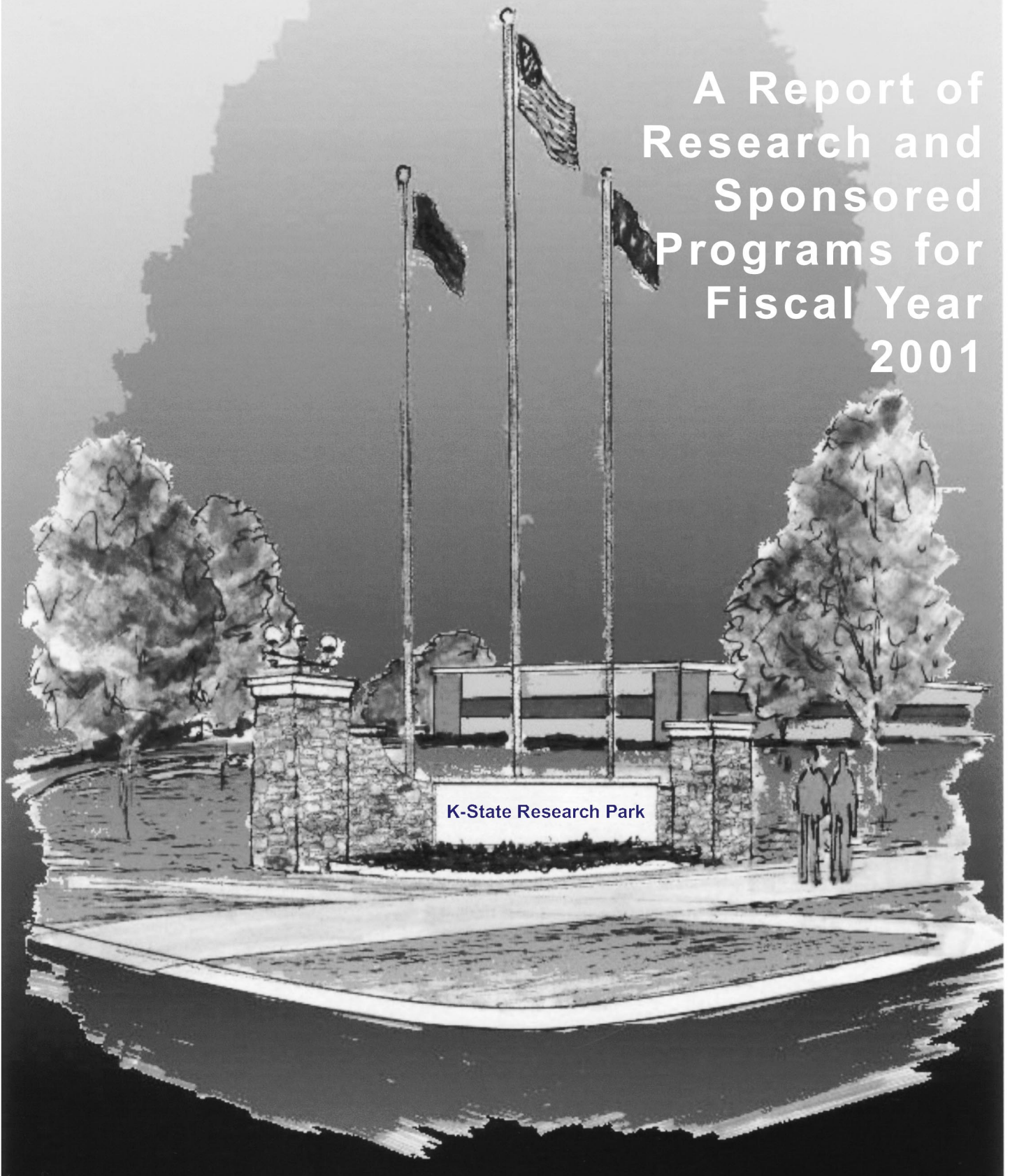


RESEARCH 2001

A Report of
Research and
Sponsored
Programs for
Fiscal Year
2001



K a n s a s S t a t e U n i v e r s i t y

ABOUT THE COVER—*Architect's rendering of the entrance to K-State's new Research Park by Dave DeBusman, Project Coordinator, KSU Facilities Planning. Cover design by Yvonne Bachura, Office of Research and Sponsored Programs.*

K-State broke ground for its Research Park in 2001. The park will occupy 25 acres north of main campus at a site where K-State research has made advances for nearly a century.

In 1913 the Kansas Board of Regents authorized construction at this site for Research Hall, a facility meant to house the stepped-up manufacturing of anti-hog cholera serum for public sale.

Research Hall also housed research by K-State veterinarians O. M. Franklin, C.V. Christian and T.P. Haslam that lead to development of an effective blackleg vaccine in 1915. The vaccine prevented annual cattle losses in the millions of dollars.

Nanoscale Materials, Inc., K-State's first start-up company, will become the first occupant of the 21st century park.



**Vice Provost for Research
Dean of Graduate School**

108 Anderson Hall
Manhattan, KS 66506-0113
785-532-5110
Fax: 785-532-6507

K-State Colleagues and Friends:

The Kansas State University faculty are to be commended for several significant achievements this year: In extramural funding, they received a record-setting \$83.7 million for research and creative scholarship. In just the past two years, they have increased the amount of competitive external funding to K-State by over 40 percent.

When you add in \$58.3 million from federal and state appropriations and another \$29.5 million of donated funds transferred to the university, the total research and scholarly activity-funding base reached almost \$172 million in fiscal year 2001.

In FY 2001, the university achieved another research milestone: it broke ground for a new Research Park on 25 acres north of the main campus. It is noteworthy that the park is located at a site where research has taken place for nearly 100 years: there, the anti-hog cholera serum was produced, and there also, K-State researchers developed a vaccine for blackleg disease of cattle.

The KSU Foundation is providing the land and underwriting the first research building, the research and development headquarters of K-State's first start-up company—Nanoscale Materials, Inc. Future tenant companies with cooperative ties to the university can lease land in the research park.

K-State faculty, staff, and students routinely discover and invent: this year they received eight patents for inventions and 12 additional patent applications were filed.

Among the inventions: a cystic fibrosis therapy system; a naturally-occurring chemical that inhibits the absorption of cholesterol; a new vaccine and an anti-viral compound; a way to make high-strength plastics using wheat starch; a synthetic chemistry that will cut the cost of making some HIV/AIDS drugs; increased drought tolerance in plants. Any or all these inventions could be licensed for development or turned into start-up companies.

Congratulations to the K-State faculty, staff, and students who put forth such outstanding effort and have achieved so much. It was another terrific year.

Best wishes,

R.W. Trewyn
Vice Provost and Dean
President, KSU Research Foundation

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

Fiscal Year 2001

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 AWARDS</u> | <u>\$ 83,734,304</u> |
| II. | <u>APPROPRIATED FUNDS</u> | |
| | Main Campus State Appropriation | \$2,903,265 |
| | Agriculture Experiment Station and Extension Service | |
| | Federal Appropriation | \$8,314,991 |
| | State Appropriation | \$46,532,337 |
| | Veterinary Medical Center State Appropriation | \$534,844 |
| | <u>SUBTOTAL</u> | <u>\$58,285,437</u> |
| III. | <u>DONATED FUNDS*</u> | <u>\$29,470,179</u> |
| | RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE GRAND TOTAL | <u>\$171,489,920</u> |

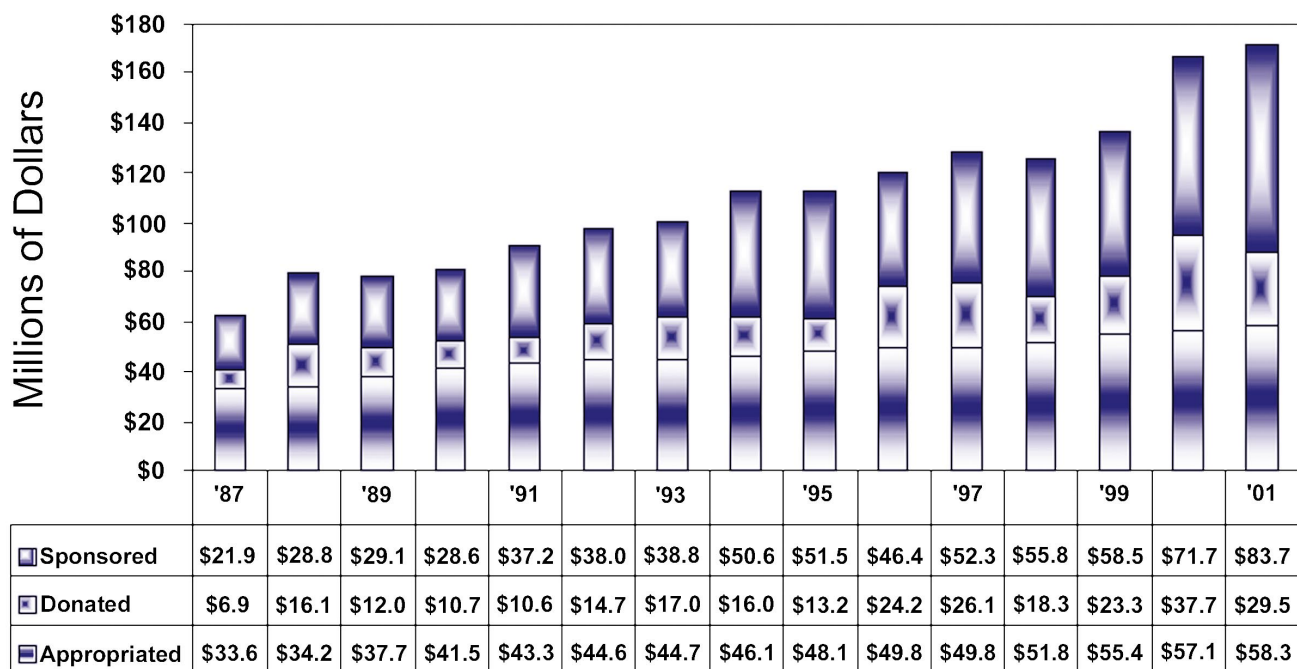
*KSU Foundation funds transferred to KSU in support of research/scholarly activity (excludes transfers to Athletics).

SECTION 1: AWARDS

KANSAS STATE
UNIVERSITY

RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE

Fiscal Years 1987–2001



Fiscal Year

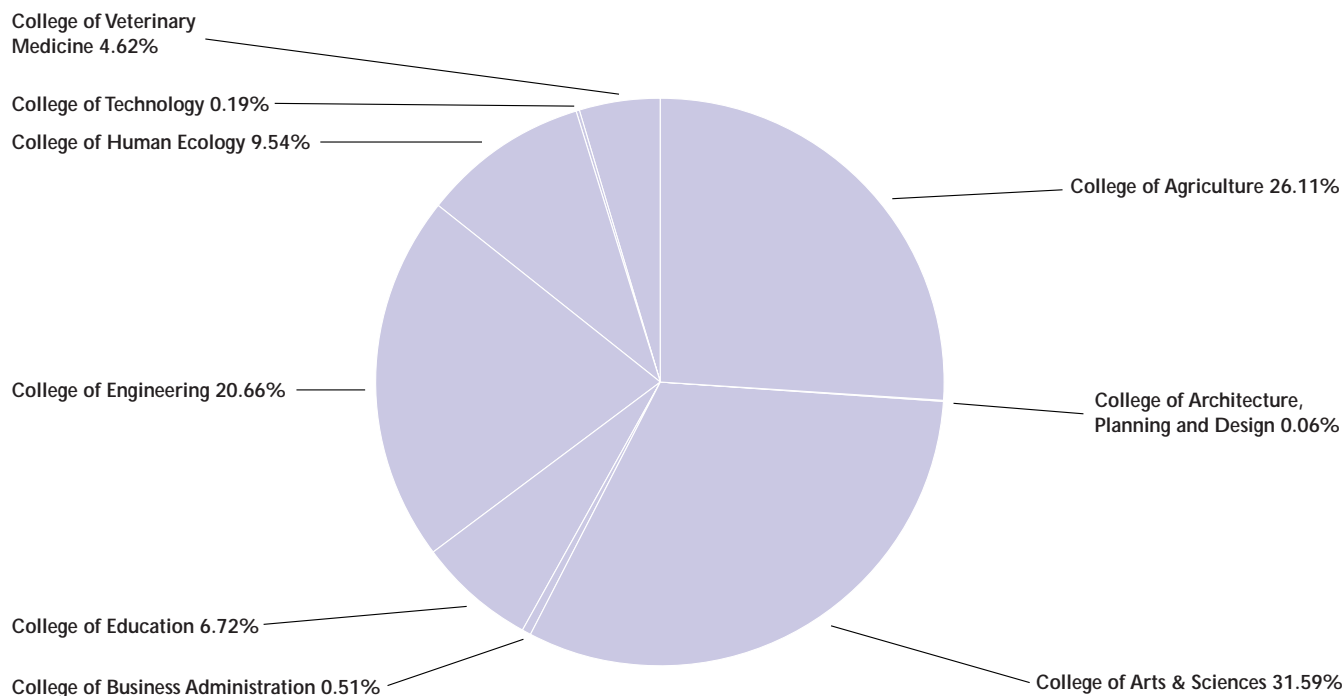
DISTRIBUTION OF NEW AWARDS AMONG COLLEGES AND OFFICES OF THE UNIVERSITY

Fiscal Year 2001

| College/Office | Number of Awards | Dollar Value |
|---|---------------------|-----------------|
| College of Agriculture | 346 | \$20,406,068 |
| College of Architecture, Planning and Design | 3 | 44,000 |
| College of Arts and Sciences | 202 | 24,682,882 |
| College of Business Administration | 5 | 396,613 |
| College of Education | 33 | 5,254,434 |
| College of Engineering | 180 | 16,141,572 |
| College of Human Ecology | 61 | 7,454,082 |
| College of Technology | 3 | 147,830 |
| College of Veterinary Medicine | 56 | 3,611,939 |
| Office of the President | 7 | 50,140 |
| Office of the Provost | 14 | 756,349 |
| Vice President for Administration and Finance | 2 | 16,800 |
| Vice President for Institutional Advancement | 14 | 2,319,826 |
| Vice Provost for Academic Services and Instruction | 3 | 923,701 |
| Vice Provost for Research and Dean of Graduate School | 9 | 1,528,068 |
| UNIVERSITY TOTALS | 938 | \$83,734,304 |

AWARDS BY COLLEGE

Fiscal Year 2001



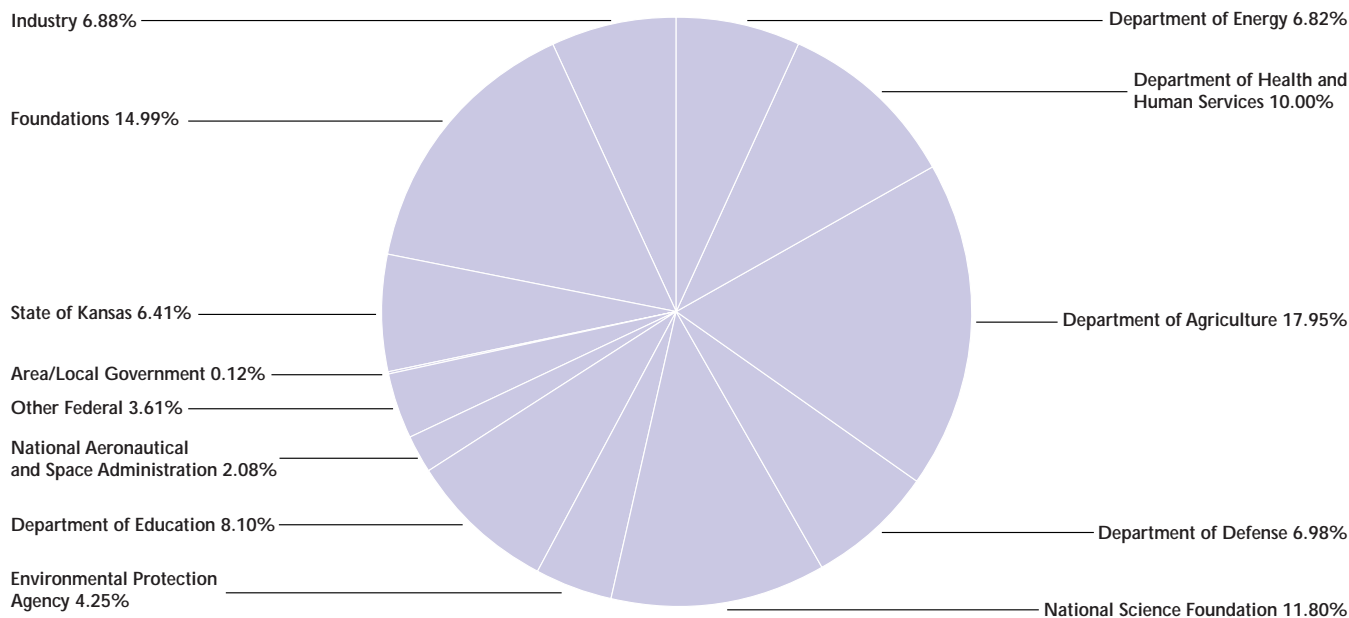
KANSAS STATE UNIVERSITY SOURCES OF AWARDS

Fiscal Year 2001

| Source | Number of Awards | Dollar Value |
|---|---------------------|---------------------|
| Area/Local Government | 8 | \$98,622 |
| Department of Agriculture | 115 | 15,080,541 |
| Department of Defense | 38 | 5,866,743 |
| Department of Education | 32 | 6,807,313 |
| Department of Energy | 31 | 5,725,730 |
| Department of Health and Human Services | 56 | 8,396,769 |
| Environmental Protection Agency | 24 | 3,567,812 |
| Foundations | 208 | 12,589,741 |
| Industry | 189 | 5,779,469 |
| National Science Foundation | 77 | 9,909,429 |
| National Aeronautics and Space Administration | 17 | 1,750,939 |
| Other Federal | 49 | 3,034,880 |
| State of Kansas | 94 | 5,385,723 |
| TOTAL | 938 | \$83,734,304 |

SOURCES OF AWARDS

Fiscal Year 2001



EXTRAMURAL AWARDS

Fiscal Year 2001 (July 1, 2000 - June 30, 2001)

COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS

Barkley, Andrew P., Boland, Michael A., Marsh, Thomas L., and Stiegert, Kyle W., Kansas Wheat Commission, \$24,000, "Potential to Increase U.S. Demand for Wheat: Emerging Domestic Markets."

Barkley, Andrew P., Boland, Michael A., Marsh, Thomas L., and Stiegert, Kyle W., Kansas Wheat Commission, \$8,632, "Fast Food Sales: The Potential to Increase Wheat Product Consumption."

Barton, David G., Multisponsor, \$40,000, "Arthur Capper Cooperative Center."

Bernardo, Daniel J., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Boland, Michael A., US Department of Agriculture, \$120,538 (includes \$65,538 from Kansas Department of Commerce and Housing), "Market Research for Specialty White Wheats."

Boland, Michael A., and Barton, David G. (Extension Agricultural Economics), US Department of Agriculture, \$27,527, "Cooperatives' Role in Food and Feed Grain Identity-Preserved Systems."

Boland, Michael A., and Dhuyvetter, Kevin C., Kansas Corn Commission, \$15,135, "Market Research on Value-Enhanced Corn."

Boland, Michael A., and Dhuyvetter, Kevin C., Kansas Grain Sorghum Commission, \$7,577, "Market Research on Grain Sorghum."

Boland, Michael A., and Dhuyvetter, Kevin C., Kansas Soybean Commission, \$9,538, "Market Research on Value-Enhanced Soybeans."

Boland, Michael A., and Fox, John A., US Department of Agriculture, \$10,000, "National Need Fellowship—Management and Marketing/Agribusiness Food and Forest Products."

Boland, Michael A., (see **Barkley, Andrew P.**, Agricultural Economics).

Boland, Michael A., (see **Barton, David G.**, Extension Agricultural Economics).

Coltrain, David E., (see **Barton, David G.**, Extension Agricultural Economics).

Dhuyvetter, Kevin C., (see **Boland, Michael A.**, Agricultural Economics).

Featherstone, Allen M., US Department of Agriculture, \$15,000, "Yield Performance and Producer Experience."

Fox, John A., (see **Boland, Michael A.**, Agricultural Economics).

Fox, John A., (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Kastens, Terry, (see **Williams, Kimberly A.**, Horticulture, Forestry and Recreation Resources).

Langemeier, Michael R., Kansas Department of Wildlife and Parks, \$6,400, "Summarization and Analysis of 2000 Small Game Harvest Survey."

Leatherman, John C., US Department of Commerce, \$1,700, "Economic and Fiscal Implications of Electronic Commerce for Rural Communities: New Business Opportunity or Death Knell for Main Street?"

Marsh, Thomas L., (see **Barkley, Andrew P.**, Agricultural Economics).

Marsh, Thomas L., (see **Williams, Kimberly A.**, Horticulture, Forestry and Recreation Resources).

Norman, David W., Food and Agriculture Organization of United Nations, \$45,100, "Evaluation of Special Programme for Food Security."

Schroeder, Ted C., Chicago Mercantile Exchange, \$17,500, "Cost and Benefits of Mandatory Price Reporting in the Beef Industry."

Stiegert, Kyle W., US Department of Agriculture, \$95,000, "Empirical Tests of STE Leadership Behavior in International Grain Markets."

Stiegert, Kyle W., (see **Barkley, Andrew P.**, Agricultural Economics).

Zhang, Ping, (see **Sargeant, Janice M.**, Food Animal Health and Management Center).

AGRICULTURAL EXPERIMENT STATION

Ham, George E., US Department of Agriculture, \$112,073, "Development and Management of Canola in the Great Plains Region."

Johnson, Marc A., Multisponsor, \$43,642, "Farmland/KSU Research Alliance."

Johnson, Marc A., (see **Buchholz, Daryl D.**, Production Management and Natural Resource Development).

Schenck-Hamlin, Donna C., US Department of Agriculture, \$7,500, "Internet Publishing of Selected Full-Text Translations from Chinese Literature Pertaining to the Soybean Aphid and Its Biological Control."

AGRICULTURAL RESEARCH CENTER-HAYS

Kofoed, Kenneth D., Multisponsor, \$1,000, "Sorghum Research."

Kofoed, Kenneth D., US Department of Agriculture, \$18,000, "Regeneration of Sorghum Accessions."

Kofoed, Kenneth D., Harvey, Tom L. (Entomology), **Reese, John C.** (Entomology), **Seifers, Dallas L.**, and **Tuinstra, Mitchell R.** (Agronomy), Kansas Grain Sorghum Commission, \$138,500, "Breeding Sorghum with Improved Grain Yield, Greenbug and Virus Resistance, and Pre-Flowering Drought Tolerance."

Kofoed, Kenneth D., (see **Tuinstra, Mitchell R.**, Agronomy).

Kofoed, Kenneth D., (see **Vanderlip, Richard**, Agronomy).

Martin, Terry J., Kansas Crop Improvement Association, \$7,200, "Wheat Streak Mosaic Virus Regional Screening Nursery."

Martin, Terry J., Harvey, Tom L. (Entomology), and **Seifers, Dallas L.**, Kansas Wheat Commission, \$163,800, "Kansas Dual Purpose Pest Resistant White Wheats."

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

Seifers, Dallas L., and **Harvey, Tom L.** (Entomology), Pioneer Hi-Bred International, Inc., \$1,463, "Identification, Detection and Variability of the High Plains Pathogen."

Seifers, Dallas L., (see **Kofoed, Kenneth D.**, Agricultural Research Center-Hays).

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

Stahlman, Phillip W., Multisponsor, \$31,400, "Weed Research."

Stahlman, Phillip W., United Agri Products, Inc., \$21,200, "United Agri Products Fellowship."

Stahlman, Phillip W., and **O'Brien, Daniel M.** (Northwest Area Office), US Department of Agriculture, \$20,000, "Integrated Management Systems for Jointed Goatgrass in the Central Great Plains."

Stahlman, Phillip W., **Price, Troy M.** (Northwest Research Extension Center), and **Stockton, Roger D.** (Northwest Area Office), High Plains National Sunflower Association, \$2,800, "Optimizing Spartan Performance in No-Till Sunflower."

Thompson, Carlyle A., Multisponsor, \$7,300, "HAYRC Crop Culture."

Thompson, Carlyle A., Stockhausen, Inc., \$12,833, "Effects of Stockosorb Agro on Grain Sorghum Grown in Central Kansas."

Thompson, Carlyle A., Stockhausen, Inc., \$13,334, "Effect of Stockosorb Agro on Winter Wheat Grown in Central Kansas."

Thompson, Carlyle A., (see **Gordon, Walter B.**, Agronomy).

AGRONOMY

Al-Khatib, Kassim, and **Regehr, David L.**, Kansas Grain Sorghum Commission, \$24,800, "Improving the Crop Safety and Weed Control Efficacy of Metsulfuron-Methyl (Ally)-based Herbicide Programs for Grain Science."

Brown-Guedira, Gina L., (see **Fritz, Allan K.**, Agronomy).

Claassen, Mark J., (see **Bockus, William W.**, Plant Pathology).

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

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

Devlin, Daniel L., (see **Barden, Charles J.**, Horticulture, Forestry and Recreation Resources).

Devlin, Daniel L., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Devlin, Daniel L., (see **Powell, G. Morgan**, Extension Biological and Agricultural Engineering).

Dieleman, Johanna A., US Department of Agriculture, \$82,879, "Post-Control Weed Competitiveness as Input into a Weed Management DSS."

Dieleman, Johanna A., and **Peterson, Dallas E.** (Extension Agronomy), US Department of Agriculture, \$8,500, "Adaptation of WeedSOFT Weed Management Decision Aid Software to Kansas."

Fick, Walter H., Multisponsor, \$12,200, "Range and Pasture Brush and Weed Control."

Fjell, Dale L., Kansas Soybean Commission, \$5,000, "Soybean Production in Kansas: Extension and Applied Research."

Fjell, Dale L., Kansas Corn Commission, \$5,000, "Corn Production in Kansas: Extension and Applied Research."

Fjell, Dale L., (see **Clark, Gary A.**, Biological and Agricultural Engineering).

Fritz, Allan K., and **Brown-Guedira, Gina L.**, 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, \$189,000, "Improvement of Hard Red Winter Wheat for Kansas."

Fritz, Allan K., and **Paulsen, Gary M.**, Kansas Wheat Commission, \$90,000, "Development of Hard White Winter Wheat for Kansas."

Fritz, Allan K., (see **Paulsen, Gary M.**, Agronomy).

Gordon, Walter B., **Aiken, Robert M.** (Northwest Research Extension Center), **Duncan, Stewart R.** (South Central Area Office), **Fjell, Dale L.** (Extension Agronomy), **Heer, William F.**, **Janssen, Keith A.**, **Kilgore, Gary L.** (Southeast Area Office), **Long, James H.** (Southeast Agricultural Research Center), **Maddux, Larry D.**, **Staggenborg, Scott A.** (Northeast Area Office), **Thompson, Carlyle A.** (Agricultural Research Center-Hays), and **Witt, Merle D.** (Southwest Research Extension Center), Kansas Soybean Commission, \$70,000, "Planting Dates and Maturity Group Effects on Soybean Production in Kansas."

Gordon, Walter B., (see **Mengel, David B.**, Agronomy).

Gordon, Walter B., (see **Roozeboom, Kraig L.**, Agronomy).

Gordon, Walter B., (see **Tuinstra, Mitchell R.**, Agronomy).

Ham, Jay M., **Hargrove, William L.** (Kansas Water Resource Research Institute), **Reddi, Lakshmi N.** (Civil Engineering), and **Rice, Charles W.**, Kansas Department of Health and Environment, \$70,000, "Lagoon Water Quality Study."

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

Heer, William F., (see **Gordon, Walter B.**, Agronomy).

Heer, William F., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Janssen, Keith A., Four Star Services, Inc., \$5,500, "Evaluation of Agri-SC for Reducing Soil, Nutrient, and Herbicide Losses in Cropland Runoff."

Janssen, Keith A., Multisponsor, \$450, "Double-Crop Soybean Performance Tests—Agronomy."

Janssen, Keith A., (see **Gordon, Walter B.**, Agronomy).

Janssen, Keith A., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Janssen, Keith A., (see **Regehr, David L.**, Agronomy).

Janssen, Keith A., (see **Roozeboom, Kraig L.**, Agronomy).

Janssen, Keith A., (see **Tuinstra, Mitchell R.**, Agronomy).

Kluitenberg, Gerard J., (see **Pierzynski, Gary M.**, Agronomy).

Kulakow, Peter A., (see **Erickson, Larry.**, Center for Hazardous Substance Research Center).

Kulakow, Peter A., (see **Pierzynski, Gary M.**, Agronomy).

Lamond, Ray E., **Maddux, Larry D.**, **Marsh, Brian H.**, and **Pierzynski, Gary M.**, Multisponsor, \$45,300, "Soil Fertility and Soil Management Investigations."

Liang, George H., Kansas Crop Improvement Association, \$5,000, "Addition of Genes Encoding Thaumatin-Like Protein and Late Embryogenesis Abundant Protein."

Liang, George H., and **Lookhart, George L.** (Grain Science and Industry), Kansas Wheat Commission, \$79,600, "Gluten Proteins that Improve Bread Quality."

Liang, George H., **Muthukrishnan, Subbarat** (Biochemistry), and **Tuinstra, Mitchell R.**, Kansas Grain Sorghum Commission, \$55,000, "Transformation of Sorghum with Agronomically Useful Genes."

Liang, George H., **Muthukrishnan, Subbarat** (Biochemistry), and **Tuinstra, Mitchell R.**, Kansas Grain Sorghum Commission, \$57,500, "Transformation of Sorghum for Enhanced Stalk Rot Resistance and Drought Tolerance."

Liang, George H., (see **Muthukrishnan, Subbarat**, Biochemistry).

Maddux, Larry D., (see **Gordon, Walter B.**, Agronomy).

Maddux, Larry D., (see **Lamond, Ray E.**, Agronomy).

Marsh, Brian H., (see **Lamond, Ray E.**, Agronomy).

Martin, Victor L., (see **Clark, Gary A.**, Biological and Agricultural Engineering).

Martin, Victor L., (see **Tuinstra, Mitchell R.**, Agronomy).

McVay, Kent A., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Mengel, David B., and **Gordon, Walter B.**, US Department of the Interior, \$20,000, "Sprinkler Irrigation Demonstration Project."

Ohlenbusch, Paul D., (see **Pierzynski, Gary M.**, Agronomy).

Owensby, Clenton E., **Ham, Jay M.**, and **Knapp, Alan K.** (Biology), US Department of Energy, \$51,202, "Landscape-Level Trace Gas Fluxes on Grazed and Ungrazed Tallgrass Prairie."

Paulsen, Gary M., and **Fritz, Allan K.**, Kansas Crop Improvement Association, \$8,600, "Improving Resistance to Preharvest Sprouting in Kansas White Wheat."

Paulsen, Gary M., (see **Fritz, Allan K.**, Agronomy).

Pierzynski, Gary M., **Erickson, Larry E.** (Center for Hazardous Substance Research), **Kluitenberg, Gerard J.**, **Kulakow, Peter A.**, **Ohlenbusch, Paul D.**, and **Reddi, Lakshmi N.** (Civil Engineering), Sunflower Electric Power Corp. and Electric Power Research Institute, \$20,352, "Investigations of Vegetation Capping Strategies for Fly-Ash Disposal Sites."

Pierzynski, Gary M., (see **Erickson, Larry E.**, Chemical Engineering).

Pierzynski, Gary M., (see **Lamond, Ray E.**, Agronomy).

Ransom, Michel D., (see **Seyler, Harry L.**, Geography).

Ransom, Michel D., (see **Thien, Stephen J.**, Agronomy).

Regehr, David L., Kansas Corn Growers Association, \$30,000, "Isoxalutole Losses in Surface Water Runoff."

Regehr, David L., (see **Al-Khatib, Kassim**, Agronomy).

Regehr, David L., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Regehr, David L., and **Janssen, Keith A.**, Multisponsor, \$80,250, "Field Herbicidal Evaluations."

Rice, Charles W., US Department of Energy, \$18,600, "Terrestrial Carbon Processes, II."

Rice, Charles W., US Department of Energy, \$63,103, "Belowground Carbon Allocation and Cycling in Tallgrass Prairie and Wheat Ecosystems."

Rice, Charles W., US Environmental Protection Agency, \$22,931, "Consortium for Agricultural Soil Mitigation of Greenhouse Gases."

Rice, Charles W., (see **Ham, Jay M.**, Agronomy).

Rice, Charles W., (see **Hartnett, David C.**, Biology).

Rice, Charles W., (see **Thien, Stephen J.**, Agronomy).

Rife, Charles L., Kansas Crop Improvement Association, \$5,000, "Aluminum Tolerance in Canola: Developing Canola Varieties Adapted to Low pH Soils."

Roozeboom, Kraig L., Multisponsor, \$337,396, "Crop Performance."

Roozeboom, Kraig L., **Claassen, Mark J.**, **Gordon, Walter B.**, **Janssen, Keith A.**, and **Tuinstra, Mitchell R.**, National Grain Sorghum Producers Association, \$15,000, "Evaluation of Tan-Plant Sorghum Hybrids."

Roozeboom, Kraig L., (see **Wilde, Gerald E.**, Entomology).

Schaffer, Vernon A., Multisponsor, \$2,150, "Foundation Seed Maintenance."

Schapaugh, William T., Kansas Crop Improvement Association, \$12,500, "Development of Improved Soybean Varieties for Kansas."

Schapaugh, William T., **Long, James H.** (Southeast Agricultural Research Center), and **Todd, Timothy C.** (Plant Pathology), Kansas Soybean Commission, \$175,153, "Improving Soybean Profitability through Breeding."

Schapaugh, William T., (see **Higgins, Randall A.**, Extension Entomology).

Schapaugh, William T., (see **Tang, Xiaoyan**, Plant Pathology).

Schapaugh, William T., (see **Todd, Timothy C.**, Plant Pathology).

Schapaugh, William T., (see **Trick, Harold N.**, Plant Pathology).

Schmidt, John P., **Rogers, Danny H.** (Extension Biological and Agricultural Engineering), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, Kansas Department of Agriculture, \$25,000, "Evaluating Nitrate Leaching Characteristics for Various Nitrogen Management Strategies for Irrigated Corn Along the Lower Arkansas."

Schmidt, John P., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Schmidt, John P., (see **Schlegel, Alan J.**, Southwest Research Extension Center).

Shroyer, James P., (see **Herrman, Timothy J.**, Grain Science and Industry).

Skinner, Daniel Z., (see **St. Amand, Paul C.**, Agronomy).

St. Amand, Paul C., and **Skinner, Daniel Z.**, Kansas Crop Improvement Association, \$3,770, "Development of Acid-Tolerant Alfalfa Germplasm for Kansas."

Stone, Loyd R., (see **Schlegel, Alan J.**, Southwest Research Extension Center).

Stone, Loyd R., (see **Schmidt, John P.**, Agronomy).

Thien, Stephen J., **Ransom, Michel D.**, and **Rice, Charles W.**, US Golf Association, \$10,000, "Impact of Golf Courses on Soil Quality."

Thien, Stephen J., (see **Starrett, Steven K.**, Civil Engineering).

Tuinstra, Mitchell R., National Grain Sorghum Producers Association, \$35,000, "Elucidation of and Development of Cold Tolerance in Sorghum."

Tuinstra, Mitchell R., **Claassen, Mark J.**, **Claflin, Larry E.** (Plant Pathology), **Gordon, Walter B.**, **Janssen, Keith A.**, **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), **Martin, Victor L.**, and **Witt, Merle D.** (Southwest Research Extension Center), Kansas Grain Sorghum Commission, \$60,000, "Breeding Grain Sorghum for Improved Dryland Production."

Tuinstra, Mitchell R., **Claassen, Mark J.**, **Claflin, Larry E.** (Plant Pathology), **Gordon, Walter B.**, **Janssen, Keith A.**, **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), and **Martin, Victor L.**, Kansas Grain Sorghum Commission, \$55,000, "Breeding Grain Sorghum for Improved Dryland Production."

Tuinstra, Mitchell R., and **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), US Department of Agriculture, \$24,875, "Breeding for Ergot Avoidance in Sorghum: Mid-Season Cold Tolerance."

Tuinstra, Mitchell R., (see **Kofoed, Kenneth D.**, Agricultural Research Center-Hays).

Tuinstra, Mitchell R., (see **Liang, George H.**, Agronomy).

Tuinstra, Mitchell R., (see **Roozeboom, Kraig L.**, Agronomy).

Tuinstra, Mitchell R., (see **Vanderlip, Richard**, Agronomy).

Vanderlip, Richard, **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), and **Tuinstra, Mitchell R.**, US Department of Agriculture, \$99,163, "Sorghum Research."

Vanderlip, Richard, **Kofoed, Kenneth D.** (Agricultural Research Center-Hays), and **Tuinstra, Mitchell R.**, US Department of Agriculture, \$98,935, "Sorghum Research."

Xia, Kang, US Environmental Protection Agency, \$19,706, "Role of Natural Organic Material in the Disposition and Binding of Organic Contaminants and Heavy Metals."

Xia, Kang, (see **Starrett, Steven K.**, Civil Engineering).

ANIMAL SCIENCES AND INDUSTRY

Aramouni, Fadi M., and **Boyle, Elizabeth**, US Department of Agriculture, \$207,007, "Improving HACCP Systems for Small Meat and Food Processors in Four Midwest States."

Boyle, Elizabeth, (see **Aramouni, Fadi M.**, Animal Sciences and Industry).

Danler, Robert J., (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Davis, Duane L., and **Chenoweth, Peter J.** (Clinical Sciences), Alpha Pharma Inc., \$20,978, "Evaluation of Optiboar for Assessing Characteristics of Boar Semen."

Dikeman, Michael E., National Cattlemen's Beef Association, \$71,000, "Carcass Merit Traits: Development of EPD's and Genetic Marker Validation."

Drouillard, James S., North Dakota State University, \$10,800, "Modulation of Immune Response in Feeder Cattle with Flaxseed."

Drouillard, James S., North Dakota Oilseed Council, \$60,908 (includes \$8,300 from North Dakota Oilseed Council), "Feeding Flaxseed and Flaxseed Products to Improve Health and Performance of Stressed Feeder Calves."

Drouillard, James S., Kastner, Curtis L., and Phebus, Randall K., Corn Marketing Program of Michigan, \$25,000, "Corn Byproducts for Cattle: Performance, Food Safety and Meat Quality."

Drouillard, James S., Kastner, Curtis L., and Phebus, Randall K., Kansas Corn Commission, \$79,504, "Distiller's Byproducts for Cattle: Food Safety, Meat Quality and Cattle Performance."

Fung, Daniel Y.C., California Prune Board, \$5,000, "Effects of Dried Plum Puree on Foodborne Pathogens in Meats and Meat Products."

Fung, Daniel Y.C., (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Herald, Thomas L., (see **Aramouni, Fadi M.**, Extension Animal Sciences and Industry).

Herald, Thomas L., (see **Thippareddi, Harshavardhan**, Animal Sciences and Industry).

Herald, Thomas L., (see **MacRitchie, Finlay I.**, Grain Science and Industry).

James, Dee W., Kansas State University Foundation, \$33,794, "Teaching Support—Livestock and Meat Industry Council."

Kastner, Curtis L., Boyle, Elizabeth (Extension Animal Sciences and Industry), **Danler, Robert J., Fox, John A.** (Agricultural Economics), **Kropf, Donald H., Phebus, Randall K., and Thippareddi, Harshavardhan**, US Department of Agriculture, \$200,186, "Merchandising Value-Added Lamb Shoulder to the Food Service Industry."

Kastner, Curtis L., Fung, Daniel Y.C., and Kropf, Donald H., US Department of Agriculture, \$374,905, "Animal Sciences and Industry Food Safety Consortium-Kansas State University."

Kastner, Curtis L., (see **Drouillard, James S.**, Animal Sciences and Industry).

Kastner, Curtis L., (see **Marsden, James L.**, Animal Sciences and Industry).

Kastner, Curtis L., (see **Thippareddi, Harshavardhan**, Animal Sciences and Industry).

Kropf, Donald H., (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Marsden, James L., Kastner, Curtis L., Phebus, Randall K., and Thippareddi, Harshavardhan, National Cattlemen's Beef Association, \$31,080, "Escherichia coli O157:H7 and Salmonella spp. and Listeria monocytogenes: Determination of D- and Z-Values in Ground Beef."

Marsden, James L., Kastner, Curtis L., Phebus, Randall K., and Thippareddi, Harshavardhan, National Cattlemen's Beef Association, \$43,000, "Salmonella spp. and Listeria monocytogenes Risk Assessment for Production and Cooking of Blade Tenderized Beef Steaks."

Marsden, James L., (see **Thippareddi, Harshavardhan**, Animal Sciences and Industry).

Nelssen, Jim L., and Tokach, Michael D. (Extension Animal Sciences and Industry), Hill's Pet Nutrition, Inc., \$28,500, "Effect of Protein Size and Source on Delayed Type Hypersensitivity in Early Weaned Pigs."

Phebus, Randall K., (see **Drouillard, James S.**, Animal Sciences and Industry).

Phebus, Randall K., (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Phebus, Randall K., (see **Marsden, James L.**, Animal Sciences and Industry).

Phebus, Randall K., (see **Thippareddi, Harshavardhan**, Animal Sciences and Industry).

Riley, Jack G., Kansas Beef Council, \$200,250, "Support of Regents Distinguished Professorship in Animal Sciences."

Schmidt, Karen A., (see **MacRitchie, Finlay I.**, Grain Science and Industry).

Thippareddi, Harshavardhan, National Pork Board, \$25,000, "Post-Process Pasteurization of Packaged, Ready-to-Eat Pork Products for Control of Listeria monocytogenes."

Thippareddi, Harshavardhan, Herald, Thomas L., Kastner, Curtis L., Marsden, James L., and Phebus, Randall K., American Meat Institute Foundation, \$73,500, "Control of Listeria monocytogenes in Ready-to-Eat Meats using Cetyl Pyridinium Chloride."

Thippareddi, Harshavardhan, (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Thippareddi, Harshavardhan, (see **Marsden, James L.**, Animal Sciences and Industry).

COMMUNICATIONS

Flores, Sandra A., (see **Shanklin, Carol W.**, Hotel, Restaurant, Institution Management and Dietetics).

Furbee, Robert R., and Peavler, Nancy J., Kansas Department of Agriculture, \$30,000, "Bugs in Kansas Book."

Jackson, William L., Corporation for Public Broadcasting, \$17,209, "Radio Community Service Grant."

Jackson, William L., Kansas Department of Administration, \$50,466, "Kansas Public Broadcasters Council Service and Incentive Program."

Peavler, Nancy J., (see **Furbee, Robert R.**, Communications).

OFFICE OF THE DEAN OF THE COLLEGE OF AGRICULTURE AND DIRECTOR OF THE AGRICULTURAL EXPERIMENT STATION

Johnson, Marc A., US Department of Agriculture, \$637,431, "USDA/ARS Research Support Agreement." (10 awards)

Johnson, Marc A., USFT Other, \$6,498, "IAP USFT Other."

Johnson, Marc, A., (see **Buchholz, Daryl D.**, Production Management and Natural Resource Development).

Wilson, Ron J., Kansas Agriculture and Rural Leadership, \$14,772, "Secretarial Support—Huck Boyd National Institute for Rural Development."

Wilson, Ron J., Kansas Agriculture and Rural Leadership, \$2,710, "Work-Study Student Hourly Support-Huck Boyd National Institute for Rural Development."

ENTOMOLOGY

Beeman, Richard W., (see **Denell, Robin E.**, Biology).

Buschman, Larry L., Dow AgroSciences, \$2,000, "Dow Research Project."

Buschman, Larry L., Multisponsor, \$19,250, "Insecticide Management of Field Crop Insects in Southwestern Kansas."

Buschman, Larry L., Pioneer Hi-Bred International, Inc., \$2,000, "Product Transfer and Evaluation Agreement."

Buschman, Larry L., US Department of Agriculture, \$5,000, "Using Crop Insurance to Improve Transgenic Corn Refuge Compliance."

Buschman, Larry L., Higgins, Randall A., Ramaswamy, Sonny B., Sloderbeck, Phillip E. (Southwest Area Office), **Witt, Merle D.** (Southwest Research Extension Center), and **Zhu, Kun Yan**, Kansas Corn Commission, \$18,800, "Biology and Management of Corn Borers in Kansas."

Buschman, Larry L., and Sloderbeck, Phillip E. (Southwest Area Office), Monsanto Company, \$8,000, "Efficacy of New Lepidoptera and Coleoptera Active Transgenic Bt Corn Lines against Several Corn Pests."

Buschman, Larry L., (see **Higgins, Randall A.**, Extension Entomology).

Buschman, Larry L., (see **Wilde, Gerald E.**, Entomology).

Charlton, Ralph E., US Department of Agriculture, \$15,000, "Investigation of Adult Male Gypsy Moth Dispersal Behavior."

Charlton, Ralph E., Cully, Jr., Jack F. (Biology), **Kaufman, Donald W.** (Biology), **Kaufman, Glennis A.** (Biology), and **Whiles, Matthew R.**, Kansas Army National Guard, \$70,123, "Restoration of Native Grasslands and LCTA."

Harvey, Tom L., (see **Kofoed, Kenneth D.**, Agricultural Research Center-Hays).

Harvey, Tom L., (see **Martin, Terry J.**, Agricultural Research Center-Hays).

Harvey, Tom L., (see **Seifers, Dallas L.**, Agricultural Research Center-Hays).

Higgins, Randall A., FMC Corporation, \$2,000, "Alfalfa Weevil Efficacy and Spray/No-Spray Bt Corn Trial."

Higgins, Randall A., (see **Buschman, Larry L.**, Entomology).

Higgins, Randall A., (see **Wilde, Gerald E.**, Entomology).

Katsar, Catherine S., (see **Reeck, Gerald R.**, Biochemistry).

Margolies, David C., (see **Williams, Kimberly A.**, Horticulture, Forestry and Recreation Resources).

Nechols, James R., County Weed Director Association of Kansas, \$500, "Gall Mite Research Project."

Nechols, James R., (see **Williams, Kimberly A.**, Horticulture, Forestry and Recreation Resources).

Ramaswamy, Sonny B., National Science Foundation, \$25,000, "Consortium for Host Resistance to Pests."

Ramaswamy, Sonny B., Tougaloo College, \$12,500, "Tougaloo College Project."

Ramaswamy, Sonny B., US Department of Agriculture, \$36,773, "Determine Physiological Effects of Insect Growth Regulators for Major Pest Species."

Ramaswamy, Sonny B., US Department of Agriculture, \$50,000, "Facilitate Multiple Pest Resistant Wheat Germplasm Research."

Ramaswamy, Sonny B., US Department of Agriculture, \$6,000, "Biological Control of Stored Product Insects Pests."

Ramaswamy, Sonny B., and Bhadriraju, Subramanyam (Grain Science and Industry), US Department of Agriculture, \$1,217,829, "Consortium for Integrated Management of Stored Product Insect Pests."

Ramaswamy, Sonny B., (see **Buschman, Larry L.**, Entomology).

Ramaswamy, Sonny B., (see **Cress, Donald C.**, Extension Entomology).

Ramaswamy, Sonny B., (see **Higgins, Randall A.**, Entomology).

Reese, John C., (see **Kofoed, Kenneth D.**, Agricultural Research Center-Hays).

Reese, John C., (see **Reeck, Gerald R.**, Biochemistry).

Smith, C. Michael, Kansas Crop Improvement Association, \$4,500, "Diagnostic Molecular Genetic Markers to Detect Multi-Gene Greenbug Resistance in Wheat."

Smith, C. Michael, Kansas Wheat Commission, \$25,475, "Molecular Diagnosis of Wheat Aphid Resistance."

Whiles, Matthew R., (see **Charlton, Ralph E.**, Entomology).

Wilde, Gerald E., Monsanto Company, \$7,000, "Efficacy of Lead Transgenic Corn Rootworm Event against Western and Northern Corn Rootworm."

Wilde, Gerald E., Multisponsor, \$34,975, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Wilde, Gerald E., Pioneer Hi-Bred International, Inc., \$2,000, "Product Transfer and Evaluation Agreement."

Wilde, Gerald E., Buschman, Larry L., Higgins, Randall A., Sloderbeck, Phillip E. (Southwest Area Office), and **Zhu, Kun Yan**, US Department of Agriculture, \$35,000, "Development of a Corn Rootworm Areawide Management Program in Kansas."

Wilde, Gerald E., and Roozeboom, Kraig L. (Agronomy), Kansas Corn Commission, \$13,000, "Evaluation of Transgenic Corn for Corn Rootworm Pest Management."

Wilde, Gerald E., (see **Bockus, William W.**, Plant Pathology).

Wilde, Gerald E., (see **Trick, Harold N.**, Plant Pathology).

Zhu, Kun Yan, US Department of Agriculture, \$8,500, "Monitoring Insect Population Dynamics and Movement Using Molecular Markers."

Zhu, Kun Yan, (see **Buschman, Larry L.**, Entomology).

Zhu, Kun Yan, (see **Wilde, Gerald E.**, Entomology).

Zolnerowich, Gregory, US Department of Agriculture, \$18,443, "Revision of Nearctic *Metaphycus*, with a Phylogenetic Analysis of *Aphycini*."

FOOD AND FEED GRAINS INSTITUTE

Acasio, Ulysses A., and Schenck-Hamlin, Donna C., US Agency for International Development, \$4,670, "Post Harvest Handling/Uganda."

Borsdorf, Roe E., US Department of Agriculture, \$7,319, "Training Program for Paul Mwebaze."

Neils, Kenneth E., US Department of Agriculture, \$73,344, "White Wheat Commercialization in Export Markets."

Norman, David W., Food and Agriculture Organization of United Nations, \$19,000, "Informal Employment and Sustainable Livelihoods."

Schenck-Hamlin, Donna C., (see **Acasio, Ulysses A.**, Food and Feed Grains Institute).

GRAIN SCIENCE AND INDUSTRY

Behnke, Keith C., Cotton Foundation, \$12,000, "Pelleting Characteristics of Cottonseed Meal in Corn-Soy Based Rations."

Behnke, Keith C., International Stock Food Corporation, \$10,454, "Evaluation of Tox-Guard as a Mold Inhibitor in High-Molasses Textured Feeds."

Behnke, Keith C., Kemin Industries, Inc., \$10,000, "Material Release Agreement."

Behnke, Keith C., (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Bhadriraju, Subramanyam, Rupp Industries, \$15,000, "Fellowship for the Management of Stored-Product Insects with Heat in Food-Processing Facilities."

Bhadriraju, Subramanyam, Behnke, Keith C., and Eustace, W. Dale, US Department of Agriculture, \$133,000 (includes \$83,000 from Rupp Industries), "Heat Sterilization for Insect Management in Food-Handling Establishments."

Bhadriraju, Subramanyam, Chambers, Delores H. (Human Nutrition), **Eustace, W. Dale, Padula, Frank J., Seib, Paul A., and Willyard, Marvin R.**, Dow AgroSciences, \$120,794, "Quality of Sulfuryl Fluoride (Profume) Treated Wheat."

Bhadriraju, Subramanyam, and **Reed, Carl**, Kansas Wheat Commission, \$35,048, "SPINOSAD: An Effective Alternative to Pesticides for Management of Stored-Wheat Insects."

Bhadriraju, Subramanyam, (see **Cress, Donald C.**, Extension Entomology).

Bhadriraju, Subramanyam, (see **Ramaswamy, Sonny B.**, Entomology).

Donnelly, Brendan J., Kansas Corn Commission, \$36,600, "Market Development Grant—International Grains Program Grain Storage, Handling, and Sanitation Specialist."

Donnelly, Brendan J., Kansas Soybean Commission, \$36,600, "Market Development Grant—International Grains Program Grain Storage, Handling and Sanitation Specialist."

Donnelly, Brendan J., Kansas Wheat Commission, \$400,000, "International Grains Program Support Project."

Donnelly, Brendan J., Nebraska Wheat Board, \$15,000, "International Grains Program Advisory Board."

Donnelly, Brendan J., Nebraska Wheat Board, \$4,000, "IGP/Marketing Wheat—Mexico."

Donnelly, Brendan J., Oklahoma Wheat Commission, \$15,000, "International Grains Program Wheat Advisory Board."

Donnelly, Brendan J., and **McCluskey, Patrick J.**, Kansas Wheat Commission, \$27,900, "Protein/Hardness Screening of Early Progeny Wheats."

Donnelly, Brendan J., and **McCluskey, Patrick J.**, Kansas Wheat Commission, \$100,523, "Quality Evaluation from KAES Wheat Breeding Programs."

Donnelly, Brendan J., and **Reed, Carl**, US Department of Agriculture, \$395,000, "Continuation of Development of a Stored Wheat Area-wide Management Program in Kansas."

Eustace, W. Dale, (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Flores, Rolando A., Kansas Wheat Commission, \$67,556, "Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing."

Gwartz, Jeffrey A., (see **Herrman, Timothy J.**, Grain Science and Industry).

Herrman, Timothy J., Grain Industry Alliance, \$30,000, "Pre-Harvest Prediction of Wheat End-Use Quality."

Herrman, Timothy J., Kansas Department of Commerce and Housing, \$44,600, "Wheat Marketing—Mexico."

Herrman, Timothy J., Ohio State University, \$25,525, "Grain Facility System Analysis to Improve Adoption of Value-Enhanced Grain Handling and Marketing in the U. S."

Herrman, Timothy J., and **Gwartz, Jeffrey A.**, Ohio State University, \$15,000, "Impact of Storage on Wheat Milling Performance."

Herrman, Timothy J., and **Shroyer, James P.** (Agronomy), Kansas Department of Commerce and Housing, \$2,100, "Optimizing Hard White Wheat Yield and Processing Performance in Kansas."

Herrman, Timothy J., and **Shroyer, James P.** (Agronomy), Kansas Wheat Commission, \$2,100, "Optimizing Hard White Wheat Yield and Processing Performance in Kansas."

Klopfenstein, Carol F., (see **Takemoto, Dolores J.**, Biochemistry).

Lookhart, George L., (see **Liang, George H.**, Agronomy).

MacRitchie, Finlay I., Nutratech, \$5,600, "Analysis of Superoxide Dismutase."

MacRitchie, Finlay I., **Herald, Thomas L.** (Animal Sciences and Industry), and **Schmidt, Karen A.** (Animal Sciences and Industry), Kansas Wheat Commission, \$67,804, "Chemical/Physical Modification of Gluten Protein and Characterization."

McCluskey, Patrick J., (see **Donnelly, Brendan J.**, Grain Science and Industry).

Padula, Frank J., (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Reed, Carl, (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Reed, Carl, (see **Donnelly, Brendan J.**, Grain Science and Industry).

Seib, Paul A., Kansas Wheat Commission, \$28,604, "Use of Low-Protein Hard White Winter Wheats for Asian Noodles."

Seib, Paul A., US Department of Agriculture, \$34,146, "Development of Prediction Models for Wheat Quality Parameters."

Seib, Paul A., (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Seib, Paul A., (see **Sun, X. Susan**, Grain Science and Industry).

Seib, Paul A., (see **Walker, Charles E.**, Grain Science and Industry).

Sun, X. Susan, US Department of Agriculture, \$22,200, "Edible/Biodegradable Composites for Animal Feed Supplement Containers."

Sun, X. Susan, and **Seib, Paul A.**, Kansas Wheat Commission, \$49,480, "Biodegradable Plastics from Wheat Starch and Poly(lactic Acid)."

Sun, X. Susan, and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Defense, \$30,000, "Adhesion Performance of Modified Soy Protein Adhesive."

Sun, X. Susan, (see **Walker, Charles E.**, Grain Science and Industry).

Walker, Charles E., Gas Research Institute, \$20,000, "Bakery Oven Humidity Measurement and Control."

Walker, Charles E., Tortilla Industry Association, \$40,000, "Tortilla Shelf Life Improvement."

Walker, Charles E., US Department of Agriculture, \$61,515 (includes \$21,515 from Garland Group-Welbilt Co.), "Bakery Oven Humidity Measurement and Control."

Walker, Charles E., and **Seib, Paul A.**, Kraft Foods, Inc., \$40,000, "Pasta Ingredient Study."

Walker, Charles E., and **Sun, X. Susan**, Kansas Wheat Commission, \$43,000, "Wheat for Chinese Northern-Style Steamed Bread."

Wetzel, David L., Kansas Wheat Commission, \$80,611, "Wheat Screening for Natural Desirable Lipids."

Willyard, Marvin R., (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

HORTICULTURE, FORESTRY AND RECREATION RESOURCES

Barden, Charles J., and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$12,340, "Riparian Buffer Education to Improve Surface Water Quality in the Blue River of Nebraska and Kansas."

Becker, Constance D., LASPAU: Academic and Professional Programs for the Americas, \$14,105, "Fullbright/LASPAU Fellowship for Boris Sanjurj."

Becker, Constance D., (see **Gipson, Philip S.**, Biology).

Cable, Ted T., (see **Gipson, Philip S.**, Biology).

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

Fry, Jack D., **Fagerness, Matthew**, **Huang, Bingru**, **Marcum, Kenneth B.**, **Pair, John C.**, and **Wiest, Steven C.**, Multisponsor, \$52,850, "Turfgrass Investigations."

Fry, Jack D., Huang, Bingru, and Keeley, Steven J., National Turfgrass Federation, \$9,500, "Turfgrass Testing."

Fry, Jack D., and Huang, Bingru, International Turf Producers Foundation, \$16,000, "Minimum Irrigation Requirements for Sod Production in Transition Zone."

Fry, Jack D., and Huang, Bingru, Kansas Golf Course Superintendents Association, \$10,000, "Converting Transition Zone Fairways from Perennial Ryegrass to Kentucky Bluegrass or Seeded Zoysiagrass."

Huang, Bingru, (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

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

Marcum, Kenneth B., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Marr, Charles W., Multisponsor, \$3,092, "Efficacy of Insecticides Against Vegetable Feeding Insect Pests."

McElwain, Scott K., (see **Warner, Thomas D.**, Horticulture, Forestry and Recreation Resources).

Pair, John C., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

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

Reid, William R., University of Missouri, \$5,564, "Missouri Pecan Growers."

Selfridge, Gail L., (see **Warner, Thomas D.**, Horticulture, Forestry and Recreation Resources).

Warner, Thomas D., McElwain, Scott K., and Selfridge, Gail L., Manhattan Convention and Visitors Bureau, \$2,400 (includes \$1,200 from various private funds), "KSU Gardens Tourist Brochure."

Warner, Thomas D., and Selfridge, Gail L., Stanley Smith Horticultural Trust, \$20,000, "Kansas State University Gardens."

Warner, Thomas D., and Zhang, Donglin, J. Frank Schmidt Family Charitable Foundation, \$2,000, "Evaluation of Ornamental Species for the Great Plains."

Wiest, Steven C., (see **Fry, Jack D.**, Horticulture, Forestry and Recreation Resources).

Williams, Kimberly A., Fred C. Gloeckner Foundation, Inc., \$12,850, "Use of Pre-Charged Zeolites to Provide Aluminum for Blue Sepal Coloration during the Hydrangia Production."

Williams, Kimberly A., Floriculture Research (Multi-Sponsor), \$2,500, "Floriculture Research (Multi-Sponsor)."

Williams, Kimberly A., Kastens, Terry (Agricultural Economics), **Margolies, David C.** (Entomology), **Marsh, Thomas L.** (Agricultural Economics), and **Nechols, James R.** (Entomology), US Department of Agriculture, \$190,000, "Bioeconomic Assessment of Biologically Based Pest Management on Ivy Geranium."

Zhang, Donglin, (see **Warner, Thomas D.**, Horticulture, Forestry and Recreation Resources).

KANSAS CENTER FOR AGRICULTURE RESOURCES AND THE ENVIRONMENT

Beckman, Jana J., (see **Buchholz, Daryl D.**, Production Management and Natural Resource Development).

Hargrove, William L., US Environmental Protection Agency, \$548,607, "Abatement of Fecal Coliform Bacteria."

Hargrove, William L., Barnes, Philip L. (Biological and Agricultural Engineering), **Bernardo, Daniel J.** (Agricultural Economics), **Devlin, Daniel L.** (Agronomy), **Heer, William F.** (Agronomy), **Janssen, Keith A.** (Agronomy), **Kilgore, Gary L.** (Southeast Area Office), **McVay, Kent A.** (Agronomy), **Regehr, David L.** (Agronomy), **Schmidt, John P.** (Agronomy), and **Sweeney, Daniel W.** (Southeast Agricultural Research Center), Kansas Corn Commission, \$55,000, "Integrated Agricultural Management Systems (IAMS): Using Best Management Practices (BMPs) to Improve the Quality of Kansas Surface Waters."

Hargrove, William L., Barnes, Philip L. (Biological and Agricultural Engineering), **Bernardo, Daniel J.** (Agricultural Economics), **Devlin, Daniel L.** (Agronomy), **Heer, William F.** (Agronomy), **Janssen, Keith A.** (Agronomy), **Kilgore, Gary L.** (Southeast Area Office), **McVay, Kent A.** (Agronomy), **Regehr, David L.** (Agronomy), **Schmidt, John P.** (Agronomy), and **Sweeney, Daniel W.** (Southeast Agricultural Research Center), Kansas Grain Sorghum Commission, \$55,000, "Integrated Agricultural Management Systems (IAMS): Using Best Management Practices (BMPs) to Improve the Quality of Kansas Surface Waters."

Hargrove, William L., Barnes, Philip L. (Biological and Agricultural Engineering), **Bernardo, Daniel J.** (Agricultural Economics), **Devlin, Daniel L.** (Agronomy), **Heer, William F.** (Agronomy), **Janssen, Keith A.** (Agronomy), **Kilgore, Gary L.** (Southeast Area Office), **McVay, Kent A.** (Agronomy), **Regehr, David L.** (Agronomy), **Schmidt, John P.** (Agronomy), and **Sweeney, Daniel W.** (Southeast Agricultural Research Center), Kansas Soybean Commission, \$30,000, "Integrated Agricultural Management Systems (IAMS): Using Best Management Practices (BMP's) to Improve the Quality of Kansas Surface Waters."

KANSAS WATER RESOURCE RESEARCH INSTITUTE

Hargrove, William L., US Department of the Interior, \$112,228 (includes \$36,907 from University of Kansas), "State Water Research Institute Program."

Hargrove, William L., US Department of the Interior, \$40,222, "State Water Research Institute Internship—Fort Hays State University and Wichita State University."

Hargrove, William L., State Conservation Commission, \$90,000, "Watershed Specialist Initiative."

Hargrove, William L., Kansas Department of Agriculture, \$10,000, "Implementing TMDLs in Kansas: Abatement of Non-Point Sources of Fecal Coliform Bacteria."

Hargrove, William L., Kansas Water Office, \$12,400, "Kansas Water Resources Adult Education."

Hargrove, William L., US Department of Agriculture, \$20,000, "Planning Workshop for the Leadership Team of the Animal Waste Initiative."

Hargrove, William L., US Department of Agriculture, \$72,820, "Green Topeka: Tree-Based Buffer Planning in the Shunganunga Creek Watershed."

Hargrove, William L., US Environmental Protection Agency, \$204,408, "Waste Management Water Quality Protection Learning Center."

Hargrove, William L., (see **Ham, Jay M.**, Agronomy).

NORTHWEST RESEARCH EXTENSION CENTER

Aiken, Robert M., Multisponsor, \$3,000, "Sunflower Investigations."

Aiken, Robert M., National Sunflower Association, \$2,000, "Quantifying Heat and Water Stress Impacts on Yield and Water Use for Oilseed Sunflower Crops."

Aiken, Robert M., National Sunflower Association, \$3,000, "Strategies for the Management of the Sunflower Stem Weevil."

Aiken, Robert M., (see **Gordon, Walter B.**, Agronomy).

Coyne, Patrick J., Multisponsor, \$33,118, "NWREC Sunflower Performance Testing Program."

Coyne, Patrick J., US Environmental Protection Agency, \$6,702 (includes \$1,400 from City of Colby), "Water and Sediment Control Basin and Underground Outlet Construction Project."

Lamm, Freddie R., Pioneer Hi-Bred International, Inc., \$5,000, "Optimal Planting Strategies for Irrigated Corn Production with Limited Well Capacities."

Price, Troy M., (see **Stahlman, Phillip W.**, Agricultural Research Center-Hays).

PLANT PATHOLOGY

Ardales, Edna, (see **Leach, Jan E.**, Plant Pathology).

Bockus, William W., Multisponsor, \$6,400, "Seed Treatment."

Bockus, William W., and **Bowden, Robert L.**, Kansas Crop Improvement Association, \$4,000, "Development of Scab Resistant Winter Wheat Cultivars for Kansas."

Bockus, William W., and **Bowden, Robert L.**, Kansas Wheat Commission, \$25,500, "Development of Barley Yellow Dwarf-Resistant Wheat Cultivars for Kansas."

Bockus, William W., and **Bowden, Robert L.**, US Department of Agriculture, \$43,249, "Development of Scab Resistant Wheat Cultivars for Kansas."

Bockus, William W., **Bowden, Robert L.**, **Claassen, Mark J.** (Agronomy), and **Wilde, Gerald E.** (Entomology), Kansas Wheat Commission, \$33,000, "Control of Residue-Borne Winter Wheat Diseases."

Bowden, Robert L., Multisponsor, \$400, "Winter Wheat Seed Treatment Tests."

Bowden, Robert L., and **Leslie, John F.**, US Department of Agriculture, \$53,410, "Genetics and Diversity of *Gibberella zeae*."

Bowden, Robert L., (see **Bockus, William W.**, Plant Pathology).

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

Claflin, Larry E., Pioneer Hi-Bred International, Inc., \$16,542, "International Scholarship Fund—Dario Narvaez."

Claflin, Larry E., US Department of Agriculture, \$19,760, "Determine the Survivability of Micro- and Macro-conidia of *Claviceps africana*."

Claflin, Larry E., (see **Leslie, John F.**, Plant Pathology).

Claflin, Larry E., (see **Tuinstra, Mitchell R.**, Agronomy).

Friebe, Bernd, and **Gill, Bikram S.**, US Department of Agriculture, \$140,000, "Mutational Analysis of a Gametocidal Gene, *Gc2* of Wheat."

Garrett, Karen A., International Potato Center, \$13,000, "Farmer Field School Analysis."

Garrett, Karen A., Land Institute, \$6,000, "Perenniality, Cytogenetics, and Disease Resistance of *Thinopyrum* spp. X *Triticum aestivum* Hybrids and Genetic Heterogeneity Effects on Disease Epidemiology—Cindy M. Cox."

Garrett, Karen A., National Science Foundation, \$58,094, "Effects of Environmental Variation on Plant Disease in the Tallgrass Prairie."

Gill, Bikram S., Kansas Wheat Commission, \$170,000, "Wheat Genetics Resource Center."

Gill, Bikram S., McKnight Foundation, \$130,600, "Collaborative Crop Research Program (China)."

Gill, Bikram S., National Science Foundation, \$115,000, "Structure and Function of the Expressed Portion of the Wheat Genomes."

Gill, Bikram S., National Science Foundation, \$128,694, "Assessment of the Insular Organization of the Wheat D Genome by Physical Mapping."

Gill, Bikram S., US Department of Agriculture, \$243,605, "Wheat Genetics Resource Center at Kansas State University."

Gill, Bikram S., (see **Friebe, Bernd**, Plant Pathology).

Gill, Bikram S., (see **Muthukrishnan, Subbarat**, Biochemistry).

Gill, Bikram S., (see **Trick, Harold N.**, Plant Pathology).

Heaton, Louis A., and **Leslie, John F.**, US Department of Agriculture, \$14,349, "Can We Debilitate the Wheat Scab Fungus with a Virus?"

Hulbert, Scot H., National Science Foundation, \$130,000, "Molecular Characterization of Novel *Rp1* Genes."

Hulbert, Scot H., **Leach, Jan E.**, and **Trick, Harold N.**, US Department of Agriculture, \$65,000, "Isolation of Maize Genes Controlling Defense Reactions to Pathogens of Cereals."

Hulbert, Scot H., (see **Leach, Jan E.**, Plant Pathology).

Hulbert, Scot H., (see **Trick, Harold N.**, Plant Pathology).

Hulbert, Scot H., and **Leach, Jan E.**, National Science Foundation, \$216,066, "Functional and Comparative Genomics of NBS-LRR Encoding Genes."

Johnson, Lowell B., (see **White, Frank F.**, Plant Pathology).

Leach, Jan E., US Agency for International Development, \$82,532, "Utilization of Candidate Genes for Analyzing Disease Resistance and Improving Broad-spectrum Disease Resistance in Rice."

Leach, Jan E., **Ardales, Edna**, and **Hulbert, Scot H.**, Pioneer Hi-Bred International, Inc., \$1,000, "Compounds Useful to Affect Resistance in Plants and Methods Related Thereto and Genetic Sequences Conferring Pathogen Resistance in Plants and Uses Therefore."

Leslie, John F., and **Claflin, Larry E.**, US Agency for International Development, \$110,500, "Agroecology and Biotechnology of Fungal Pathogens of Sorghum and Millet From the Greater Horn of Africa."

Leach, Jan E., (see **Hulbert, Scot H.**, Plant Pathology).

Leslie, John F., American Society for Microbiology, \$21,375, "Editor Position for Applied and Environmental Microbiology."

Leslie, John F., US Department of Agriculture, \$36,662, "Genetic Diversity in *Cephalosporium Maydis* and Other Stalk Rotting Fungi of Maize in Egypt."

Leslie, John F., and **Bowden, Robert L.**, US Department of Agriculture, \$52,224, "International Genetic Diversity in *Gibberella zeae*."

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

Leslie, John F., (see **Heaton, Louis A.**, Plant Pathology).

Tang, Xiaoyan, National Science Foundation, \$52,251, "Molecular Analysis of *Pto* - *avrPto* Recognition Specificity."

Tang, Xiaoyan, National Science Foundation, \$70,000, "Functional Genomics of the Interactions of Tomato and *Pseudomonas syringae* pv *tomato* DC3000."

Tang, Xiaoyan, **Schapaugh, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$46,336, "Improvement of Soybean Disease Resistance via Genetic Engineering."

Tisserat, Ned A., Multisponsor, \$31,500, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

Todd, Timothy C., Multisponsor, \$3,000, "Nematode and Soybean Research."

Todd, Timothy C., **Long, James H.** (Southeast Agricultural Research Center), and **Schapaugh, William T.** (Agronomy), Kansas Soybean Commission, \$41,431, "Integrated Management of the Soybean Cyst Nematode and Charcoal Rot."

Todd, Timothy C., (see **Hartnett, David C.**, Biology).

Todd, Timothy C., (see **Schapaugh, William T.**, Agronomy).

Trick, Harold N., **Gill, Bikram S.**, **Hulbert, Scot H.**, **Roe, Judith L.** (Biology), and **Wang, Xuemin** (Biochemistry), National Science Foundation, \$62,686, "(Microarray Scanner and) Phosphoimager as Capital Improvements for Plant Genomic Infrastructure."

Trick, Harold N., **Higgins, Randall A.** (Extension Entomology), **Kramer, Karl J.** (Biochemistry), **Muthukrishnan, Subbarat** (Biochemistry), and **Wilde, Gerald E.** (Entomology), Kansas Corn Commission, \$50,664, "Control of Corn Rootworm using Genetically Engineered Corn."

Trick, Harold N., and **Hulbert, Scot H.**, Kansas Wheat Commission, \$57,000, "Leaf Rust Resistance in Transgenic Wheat."

Trick, Harold N., **Muthukrishnan, Subbarat** (Biochemistry), and **Schapaugh, William T.** (Agronomy), Kansas Soybean Commission, \$63,997, "Over-Expression of Antifungal Proteins in Transgenic Soybean."

Trick, Harold N., (see **Hulbert, Scot H.**, Plant Pathology).

Trick, Harold N., (see **Muthukrishnan, Subbarat**, Biochemistry).

Trick, Harold N., (see **Tang, Xiaoyan**, Plant Pathology).

Warren, Randall F., US Department of Agriculture, \$90,000, "Roles of Pathogen-Inducible EREBP-like Sequences in Disease Resistance."

White, Frank F., and **Johnson, Lowell B.**, US Department of Agriculture, \$300,000, "Characterization of the Pathogenicity Protein AvrXa7."

Zeigler, Robert S., Kansas State University Foundation, \$30,704, "Non-Conventional Plant Improvement Technology."

Zeigler, Robert S., US Department of Agriculture, \$174,654, "Facilitate Multiple Stress Resistant Wheat and Alfalfa Germplasm."

Zhou, Jianmin, US Department of Agriculture, \$140,000, "Nonhost Resistance Mechanisms in Arabidopsis."

Zhou, Jianmin, (see **Shah, Jyoti**, Biology).

SOUTHEAST AGRICULTURAL RESEARCH CENTER

Kelley, Kenneth W., Multisponsor, \$2,500, "Weed Control in Farm Crops."

Kelley, Kenneth W., and **Sweeney, Daniel W.**, Kansas Soybean Commission, \$11,513, "Effects of Crop Rotation and Tillage Systems on Soybean Yield in Southeast Kansas."

Lomas, Lyle, Postive Feed, Inc., \$4,050, "Effect of Supplementation and Supplementation Method on Grazing and Subsequent Feedlot Performance of Stocker Steers."

Long, James H., National Crop Insurance Services, \$1,500, "Soybean Research in Southeast Kansas."

Long, James H., (see **Gordon, Walter B.**, Agronomy).

Long, James H., (see **Schapaugh, William T.**, Agronomy).

Long, James H., (see **Todd, Timothy C.**, Plant Pathology).

Moyer, Joseph L., Multisponsor, \$3,350, "Southeast Kansas Crop Performance Testing Program."

Moyer, Joseph L., (see **Sweeney, Daniel W.**, Southeast Agricultural Research Center).

Sweeney, Daniel W., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Sweeney, Daniel W., (see **Kelley, Kenneth W.**, Southeast Agricultural Research Center).

Sweeney, Daniel W., and **Moyer, Joseph L.**, Multisponsor, \$5,750, "Soil Fertility and Management Investigations in Southeastern Kansas."

SOUTHWEST RESEARCH EXTENSION CENTER

Currie, Randall S., Multisponsor, \$31,800, "Weed Control Research in Southwest Kansas."

Schlegel, Alan J., Kansas Department of Wildlife and Parks, \$30,000, "Compatibility of Intensified Cropping Systems and Wildlife Habitat in Western Kansas."

Schlegel, Alan J., Multisponsor, \$2,000, "Variety Testing of Alternative Crops."

Schlegel, Alan J., Multisponsor, \$5,975, "Soil Fertility and Soil Management Research for Western Kansas."

Schlegel, Alan J., **Dumler, Troy** (Southwest Area Office), and **Stone, Loyd R.** (Agronomy), Kansas Grain Sorghum Commission, \$12,000, "Irrigated Cropping Systems to Reduce Irrigation Water Use and Groundwater Depletion While Sustaining Profitability."

Schlegel, Alan J., **Schmidt, John P.** (Agronomy), **Taylor, Randal K.** (Extension Biological and Agricultural Engineering), and **Thompson, Curtis R.** (Southwest Area Office), Kansas Corn Commission, \$29,524, "Iron (Fe) Chlorosis: Addressing a Familiar Problem with New Technology."

Schlegel, Alan J., (see **Schmidt, John P.**, Agronomy).

Schlegel, Alan J., (see **Willson, Thomas C.**, Southwest Research Extension Center).

Trooien, Todd P., (see **Alam, Mahbub U.**, Southwest Area Office).

Willson, Thomas C., **Alam, Mahbub U.** (Southwest Area Office), **Dumler, Troy** (Southwest Area Office), and **Schlegel, Alan J.**, Kansas Corn Commission, \$10,776, "Manure and Water Management for Environmental Protection and Corn Production."

Witt, Merle D., Multisponsor, \$7,000, "Yield Appraisal of Crops for Southwest Kansas—Yield Appraisals of Immature Corn."

Witt, Merle D., (see **Buschman, Larry L.**, Entomology).

Witt, Merle D., (see **Gordon, Walter B.**, Agronomy).

Witt, Merle D., (see **Tuinstra, Mitchell R.**, Agronomy).

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

ARCHITECTURE

Sachs, David H., (see **Dubois, James H.**, Interior Architecture).

INTERIOR ARCHITECTURE

Dubois, James H., **Rolley, Stephanie A.** (Landscape Architecture/Regional and Community Planning), and **Sachs, David H.** (Architecture), Downtown Topeka, Inc., \$2,000, "Downtown Topeka Collaborative Studio."

LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING

Brooks, Kenneth R., US Environmental Protection Agency, \$25,000, "Suburban Site Planning for Quality Stormwater Management."

Rolley, Stephanie A., National Foundation on the Arts and the Humanities, \$17,000, "Your Town: Designing Its Future Plains Region Workshop."

Rolley, Stephanie A., (see **Dubois, James H.**, Interior Architecture).

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY

Kanost, Michael R., US Department of Energy, \$15,000 (Includes \$15,000 from Dow Agro), "Evaluation of Insect Serpins as Biopesticides."

Kanost, Michael R., US Department of Health and Human Services, \$235,685, "Proteinase Systems in Insect Hemolymph."

Kanost, Michael R., and **Kramer, Karl J.**, National Science Foundation, \$125,000, "Regulation of Protein Cross-Linking for Insect Cuticle Sclerotization."

Kramer, Karl J., (see **Kanost, Michael R.**, Biochemistry).

Kramer, Karl J., (see **Trick, Harold N.**, Plant Pathology).

Krishnamoorthi, Ramaswamy, American Heart Association, Heartland Affiliate, \$40,000, "Factor XII: Structure-Function Relationships."

Krishnamoorthi, Ramaswamy, Great Plains Diabetes Research, Inc., \$8,000, "Effect of Glucose on Blood Coagulation Factor XII."

Muthukrishnan, Subbarat, Gill, Bikram S. (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), US Department of Agriculture, \$58,408, "Enhanced Resistance to Scab by Genetic Engineering with Genes for Defense Proteins."

Muthukrishnan, Subbarat, Gill, Bikram S. (Plant Pathology), **Liang, George H.** (Agronomy), and **Trick, Harold N.** (Plant Pathology), Kansas Wheat Commission, \$114,000, "Wheat Crop Improvement by Genetic Engineering."

Muthukrishnan, Subbarat, (see **Liang, George H.**, Agronomy).

Muthukrishnan, Subbarat, (see **Trick, Harold N.**, Plant Pathology).

Prakash, Om, US Department of Health and Human Services, \$10,626, "Immunogenic Tumor-Associated Mucin Peptides."

Prakash, Om, US Department of Health and Human Services, \$5,907, "Molecular Analysis of Mucin-Type O-Glycosylation."

Reeck, Gerald R., **Katsar, Catherine S.** (Entomology), and **Reese, John C.** (Entomology), US Department of Agriculture, \$190,000, "Molecular Genetics of Enzymes and Structural Proteins of Aphid Saliva."

Roche, Thomas E., AstraZeneca UK Limited, \$72,750, "Transfer of KSU Materials to AstraZeneca."

Roche, Thomas E., US Department of Health and Human Services, \$499,695, "Regulation of Mammalian Pyruvate Dehydrogenase."

Roche, Thomas E., and **Hua, Duy H.** (Chemistry), American Heart Association, Heartland Affiliate, \$35,000, "Selective Inhibitors of Pyruvate Dehydrogenase Kinase Isoforms."

Smith, Paul E., Kansas Technology Enterprise Corporation, \$12,427, "Molecular Dynamics Simulations of the Effects of Salts on the Aggregation Properties of Benzene in Water."

Smith, Paul E., National Science Foundation, \$270,000, "Kirkwood-Buff Approach to Improved Cosolvent Force Fields."

Smith, Paul E., US Department of Energy, \$49,709, "Molecular Dynamics Simulations of the Effects of Salts on the Aggregation Properties of Benzene in Water."

Takemoto, Dolores J., and **Boyle, Daniel L.** (Biology), US Department of Health and Human Services, \$218,250, "Protein Kinase C Gamma in the Lens."

Takemoto, Dolores J., and **Klopfenstein, Carol F.** (Grain Science and Industry), Kansas Wheat Commission, \$90,315, "Cancer Protective Effects of Wheats with Different Antioxidant Potentials."

Takemoto, Dolores J., (see **Montelone, Beth A.**, Biology).

Tomich, John M., **Mitchell, Kathy E.** (Anatomy and Physiology), and **Schultz, Bruce D.** (Anatomy and Physiology), US Department of Health and Human Services, \$273,375, "Role of Ordered Helical Segments in Membrane Proteins."

Wang, Xuemin, National Science Foundation, \$115,382, "Regulation and Function of Membrane Lipid Hydrolysis in Lipid-Based Signaling of Plants."

Wang, Xuemin, US Department of Agriculture, \$130,000, "Characterizing Functions of Multiple Phospholipase Ds in Arabidopsis."

Wang, Xuemin, (see **Shah, Jyoti**, Biology).

Wang, Xuemin, (see **Trick, Harold N.**, Plant Pathology).

Zolkiewska, Anna, American Heart Association, Heartland Affiliate, \$110,000, "Protein-Protein Interactions Mediated by ADAM 12, A Muscle-Specific Metalloprotease-Disintegrin."

Zolkiewska, Anna, US Department of Health and Human Services, \$70,080, "Role of ADAM 12 Disintegrin Domain in Myoblast Fusion."

Zolkiewska, Anna, US Department of Health and Human Services, \$72,750, "ADAM 12 in Myogenesis."

Zolkiewski, Michal, American Heart Association, Heartland Affiliate, \$39,969, "Functional Domains in ClpB, a Novel Molecular Chaperone."

Zolkiewski, Michal, Dystonia Medical Research Foundation, \$49,473, "Structure and Activity of Human TorsinA."

Zolkiewski, Michal, US Department of Health and Human Services, \$181,875, "Structure and Function of Hsp100 Proteins."

DIVISION OF BIOLOGY

Asano, Katsura, US Department of Health and Human Services, \$72,750, "Mechanism of Start Codon Selection by Eukaryotic Ribosomes."

Blair, John M., **Fay, Philip A.**, and **Knapp, Alan K.**, US Department of Energy, \$100,000, "Belowground Responses to Multiple Climate Change Factors: Interactive Effects of Warming and More Extreme Precipitation Patterns on Grassland Ecosystems."

Blair, John M., **McGrath, Diane** (Foundations and Adult Education), and **Wright, Valerie F.**, US Department of Education, \$24,045, "Hands-On Ecological Science with Internet Connectivity at Konza Prairie Biological Station."

Blair, John M., (see **Knapp, Alan K.**, Biology).

Boyle, Daniel L., (see **Takemoto, Dolores J.**, Biochemistry).

Briggs, John M., (see **Knapp, Alan K.**, Biology).

Brown, Susan J., (see **Denell, Robin E.**, Biology).

Chapes, Stephen K., National Aeronautics and Space Administration, \$155,833, "Influence of Gravity as a Determinant in Cellular Biology."

Chapes, Stephen K., National Aeronautics and Space Administration, \$124,812, "Differentiation of Bone Marrow Macrophages in Space."

Chapes, Stephen K., (see **Uhlarik, John J.**, Psychology).

Clem, Rollie J., US Department of Agriculture, \$116,000, "Apoptosis as an Anti-Viral Defense Mechanism in Insects."

Clem, Rollie J., US Department of Health and Human Services, \$161,238, "Functional Analysis of Anti-Apoptotic IAP Proteins."

- Conrad, Gary W.**, US Department of Health and Human Services, \$333,810, "Fibroblast Differentiation During Eye Development."
- Conrad, Gary W.**, and **Tasheva, Elena S.**, US Department of Health and Human Services, \$315,115, "Transcriptional Regulation of Keratocan and Mimecan."
- Cully, Jr., Jack F.**, Kansas Department of Wildlife and Parks, \$48,000, "Cowbird Abundance Effects on Spatial Patterns of Brood Parasitism in Grassland Bird Communities."
- Cully, Jr., Jack F.**, US Department of the Interior, \$27,002, "Bird and Vascular Plant Responses to Conversion from Fescue Pastures to Native Tallgrass Prairie II."
- Cully, Jr., Jack F.**, US Department of the Interior, \$76,000, "Metapopulation Ecology of the Black-Tailed Prairie Dog: A Keystone Species of Badlands National Park."
- Cully, Jr., Jack F.**, and **Kaufman, Glennis A.**, Kansas Department of Wildlife and Parks, \$45,000, "Gap Analysis in Kansas."
- Cully, Jr., Jack F.**, (see **Charlton, Ralph E.**, Entomology).
- Denell, Robin E.**, US Department of Health and Human Services, \$250,634, "Genetic Control of Segmentation."
- Denell, Robin E.**, **Beeman, Richard W.** (Entomology), and **Brown, Susan J.**, National Science Foundation, \$400,000, "Genetic Regulation of Developmental Fate."
- Denell, Robin E.**, and **Tomoyasu, Yoshinori**, Human Frontier Science Program Organization, \$138,110, "Elucidation of Animal Diversity by Comparing Drosophila and Tribolium Wing Development."
- Denell, Robin E.**, (see **Johnson, Marc A.**, Biology).
- Denell, Robin E.**, (see **Spooner, Brian S.**, Biology).
- Dodds, Walter K.**, Proctor and Gamble Company, \$6,325, "Assessing Impact of Exposure of Periphyton to Linear Alkylbenzene Sulfonate with Microscale Sensors at the Proctor and Gamble Experimental Stream Facility."
- Dodds, Walter K.**, **Horne, Eva A.**, and **Smith, Christopher C.**, National Science Foundation, \$56,204, "Research Experience for Undergraduates in Grassland Ecology at Konza Prairie Research Natural Area."
- Fay, Philip A.**, (see **Blair, John M.**, Biology).
- Ferguson, Carolyn J.**, Kansas Wildflower Society, \$500, "Pollination Biology of Phlox divaricata L. (Polemoniaceae): Visitation and Pollinator Effectiveness across Geographic Regions—Shelly D. Wiggam Harper."
- Ferguson, Carolyn J.**, National Science Foundation, \$260,806, "Systematics and Geographic Relations of Phlox L. (Polemoniaceae)."
- Gipson, Philip S.**, Kansas Department of Wildlife and Parks, \$10,500, "Changes in Land Use Patterns and Their Effects on Rio Grand Turkey in Southwest Kansas."
- Gipson, Philip S.**, Kansas Department of Wildlife and Parks, \$25,000, "Establishment and Operation of the Kansas Cooperative Fish and Wildlife Research Unit."
- Gipson, Philip S.**, Kansas Department of Wildlife and Parks, \$30,300, "Kansas Upland Game Bird Hunter Satisfaction with Management Programs for Wild Turkeys and Bobwhite Quail."
- Gipson, Philip S.**, US Fish and Wildlife Service, \$55,900, "Changes in Land Use Patterns and Their Effects on Rio Grande Turkeys in Southwest Kansas."
- Gipson, Philip S.**, and **Becker, Constance D.** (Horticulture, Forestry and Recreation Resources), US Department of the Interior, \$74,074, "Responses of Neotropical Migrant Birds to Natural and Forestry Related Changes in Riparian Forests of North-Central Kansas."
- Gipson, Philip S.**, **Becker, Constance D.** (Horticulture, Forestry and Recreation Resources), **Cable, Ted T.** (Horticulture, Forestry and Recreation Resources), and **Rintoul, David A.**, US Department of the Interior, \$25,000, "Responses of Birds and Other Wildlife to Recreation Along the Niobrara River, Fort Niobrara National Wildlife Refuge."
- Gipson, Philip S.**, and **Pontius, Jeffrey S.** (Statistics), US Department of the Interior, \$274,599, "Evaluation of Land Condition Trend Analysis as a Component of the Integrated Training Area Management Program at Fort Riley, Kansas."
- Guikema, James A.**, National Aeronautics and Space Administration, \$6,190, "Administrative Support for the Executive Committee of the Kansas NASA EPSCoR Program."
- Guikema, James A.**, (see **Shah, Jyoti**, Biology).
- Guikema, James A.**, (see **Spooner, Brian S.**, Biology).
- Guy, Christopher S.**, Kansas Department of Wildlife and Parks, \$137,160, "Effects of Water Willow on Age-0 Centrarchids in Kansas."
- Guy, Christopher S.**, Kansas Department of Wildlife and Parks, \$71,071, "Influence of Instream Habitat Restoration on Spotted Bass in a Kansas Stream."
- Hartnett, David C.**, Kansas State University Research Foundation, \$99,500, "Konza Prairie Documentary Film."
- Hartnett, David C.**, **Rice, Charles W.** (Agronomy), **Todd, Timothy C.** (Plant Pathology), and **Wilson, Gail T.**, National Science Foundation, \$4,950, "Biotic Interactions of Grassland Plants: Above- and Belowground Linkages."
- Herman, Michael A.**, US Department of Health and Human Services, \$108,017, "Control of Cell Polarity in C. elegans."
- Horne, Eva A.**, (see **Dodds, Walter K.**, Biology).
- Johnson, Loretta C.**, National Science Foundation, \$12,785 (includes \$12,785 from University of Kansas), "Acquisition of an Isotope Ratio Mass Spectrometer in the KSU-KU-Creighton University Consortium."
- Johnson, Loretta C.**, National Science Foundation, \$52,770, "Belowground Carbon and Nutrient Dynamics in Arctic Tundra Under Changing Climates."
- Johnson, Marc A.**, and **Denell, Robin E.** (Biology), US Department of Agriculture, \$19,862, "USDA/ARA Research Support Agreement." (2 awards)
- Johnson, Terry C.**, Kansas State University Foundation, \$51,259, "Cancer Center Core."
- Johnson, Terry C.**, National Aeronautics and Space Administration, \$533,476, "BioServe Space Technologies - A NASA Center for the Commercial Development of Space."
- Johnson, Terry C.**, US Department of Health and Human Services, \$93,728, "Virology and Tumor Biology."
- Jumpponen, Ari M.**, National Science Foundation, \$37,565, "Niche Separation among Ectomycorrhizal Fungi."
- Kaufman, Donald W.**, (see **Charlton, Ralph E.**, Entomology).
- Kaufman, Glennis A.**, (see **Charlton, Ralph E.**, Entomology).
- Kaufman, Glennis A.**, (see **Cully, Jr., Jack F.**, Biology).
- Knapp, Alan K.**, National Science Foundation, \$187,714, "Ecosystems in Transition: Causes and Consequences of Dramatic Shifts."
- Knapp, Alan K.**, US Environmental Protection Agency, \$25,959, "EPA Fellowship Agreement—Melinda D. Smith."
- Knapp, Alan K.**, **Blair, John M.**, and **Briggs, John M.**, National Science Foundation, \$665,000, "Long-Term Ecological Research in Tallgrass Prairie: The Konza LTER Program."
- Knapp, Alan K.**, (see **Blair, John M.**, Biology).
- Knapp, Alan K.**, (see **Owensby, Clenton E.**, Agronomy).
- Marchin, George L.**, PentaPure, Inc., \$12,000, "Testing of Water Filter and Purification Devices."

Marchin, George L., (see **Reddi, Lakshmi N.**, Civil Engineering).

Montelone, Beth A., **Dyer, Ruth A.** (Office of the Provost), **Franks, Suzanne E.** (Dean of Engineering), **Spears, Jacqueline D.** (Dean of Arts and Sciences), and **Takemoto, Dolores J.** (Biochemistry), National Science Foundation, \$275,408, "Women on the Prairie: Bringing Girls into Science through Environmental Stewardship."

Passarelli, A. Lorena, US Department of Agriculture, \$290,000, "Role of Baculovirus Expression Factors in Host Range."

Passarelli, A. Lorena, US Department of Health and Human Services, \$72,750, "Baculovirus Late Gene Transcription Factors."

Perchellet, Jean-Pierre H., US Department of Health and Human Services, \$74,928, "High Throughput Screening and Target Identification."

Perchellet, Jean-Pierre H., and **Hua, Duy H.** (Chemistry), US Department of Health and Human Services, \$196,425, "Triptycene Analogs: Novel Bifunctional Anticancer Drugs."

Rintoul, David A., (see **Gipson, Philip S.**, Biology).

Robel, Robert J., Kansas Department of Wildlife and Parks, \$36,000, "Use of Sand Sage Habitat by Lesser Prairie-Chickens in Southwestern Kansas."

Roe, Judith L., (see **Shah, Jyoti**, Biology).

Roe, Judith L., (see **Trick, Harold N.**, Plant Pathology).

Shah, Jyoti, National Science Foundation, \$41,400, "Salicylic Acid Signaling Pathway and Its Cross Talk with Jasmonic Acid and Ethylene Signaling in Plant Defense."

Shah, Jyoti, **Guikema, James A.**, **Roe, Judith L.**, **Wang, Xuemin** (Biochemistry), and **Zhou, Jianmin** (Plant Pathology), National Science Foundation, \$118,860, "Acquisition of Five Controlled Environment Chambers for Plant Research."

Smith, Ann S., and **Kiefer, Stephen W.** (Psychology), Pew Charitable Trusts, \$24,944, "Establishing a Model Infrastructure to Sustain Communities for Peer Review of Teaching."

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

Smith, Christopher C., (see **Dodds, Walter K.**, Biology).

Spooner, Brian S., US Department of Agriculture, \$20,000, "Wildlife Services Collaboration and Support Agreement."

Spooner, Brian S., **Denell, Robin E.**, and **Guikema, James A.**, National Science Foundation, \$138,000, "New Biology Faculty Hire Start-Up Funding."

Takemoto, Larry J., US Department of Health and Human Services, \$294,435, "Lens Membrane in Relation to Human Cataractogenesis."

Tasheva, Elena S., (see **Conrad, Gary W.**, Biology).

Todd, Scott C., American Cancer Society, Inc., \$375,000, "Role of Tetraspans in Regulating Cell Adhesion and Migration."

Todd, Scott C., National Science Foundation, \$41,400, "Role of Tetraspans in Regulating Cell Adhesion and Migration."

Todd, Scott C., and **Baures, Paul W.** (Chemistry), US Department of Health and Human Services, \$273,409, "H2-Receptor and Tetraspanins as Novel Cancer Therapy Targets."

Tomoyasu, Yoshinori, (see **Denell, Robin E.**, Biology).

Upton, Steve J., US Department of Health and Human Services, \$110,179, "dsRNAs of *Cryptosporidium parvum*."

Upton, Steve J., US Environmental Protection Agency, \$14,634, "Optimizing Recovery of *Cyclospora*."

Urban, James E., National Aeronautics and Space Administration, \$2,000, "Biological Wastewater Processor Experiment Definition."

Wilson, Fred E., National Science Foundation, \$81,000, "Thyroxine and Seasonality in American Tree Sparrows."

Wilson, Gail T., (see **Hartnett, David C.**, Biology).

Wright, Valerie F., (see **Blair, John M.**, Biology).

CHEMISTRY

Aakeroy, Christer B., National Science Foundation, \$350,000, "Fundamental Crystal Engineering and the Design of Extended Host-Guest Networks and Molecular-Based Magnetic Materials."

Baures, Paul W., (see **Todd, Scott C.**, Biology).

Buszek, Keith B., US Department of Health and Human Services, \$74,928, "Synthesis of Lactone and Alkaloid Antitumor Agents."

Collinson, Maryanne M., US Department of Defense, \$50,000, "Preparation and Characterization of Nanostructured Materials for Solid-State Electrochemical Applications."

Collinson, Maryanne M., (see **Hollingsworth, Mark D.**, Chemistry).

Fateley, William G., (see **Hammaker, Robert M.**, Chemistry).

Hammaker, Robert M., and **Fateley, William G.**, Defense Advanced Research Projects Agency, \$100,642, "Metabolic Chemical Monitoring through Spectral Chemometry with MEMS."

Higgins, Daniel A., National Science Foundation, \$275,500, "Optical Microscopic Studies of Electric-Field-Induced Dynamics in Polymer-Dispersed Liquid Crystals: Confinement and Interfacial Effects."

Higgins, Daniel A., (see **Hollingsworth, Mark D.**, Chemistry).

Hollingsworth, Mark D., National Aeronautics and Space Administration, \$125,500, "Crystal Growth of New Families of Ferroelastic Materials."

Hollingsworth, Mark D., **Collinson, Maryanne M.**, **Higgins, Daniel A.**, **Klabunde, Kenneth J.**, and **Sherwood, Peter M.**, National Science Foundation, \$100,000, "Acquisition of a Scanning Probe Microscope for Materials Research and Education."

Hua, Duy H., Great Plains Diabetes Research, Inc., \$10,000, "New Drugs for Diabetic Complications."

Hua, Duy H., National Science Foundation, \$291,700, "Chiral 8,8'—Disubstituted 1,1'—Binaphthyls in Asymmetric Catalysis."

Hua, Duy H., and **Koo, Sung I.** (Human Nutrition), American Heart Association, Heartland Affiliate, \$40,000, "Synthesis and Biological Evaluation of Cholesteryl Ester Transfer Protein Inhibitors: Chloropuupehenone and its Analogs."

Hua, Duy H., (see **Perchellet, Jean-Pierre H.**, Biology).

Hua, Duy H., (see **Roche, Thomas E.**, Biochemistry).

Kelley, Anne M., National Science Foundation, \$46,666, "Research Experiences for Undergraduates in Chemistry at Kansas State University."

Kelley, Anne M., (see **Waterland, Mark R.**, Chemistry).

Kelley, David F., (see **Waterland, Mark R.**, Chemistry).

Klabunde, Kenneth J., US Department of Defense, \$158,737, "Protection against Chemical Warfare Agents. Reactive Nanoparticles as Destructive Adsorbents."

Klabunde, Kenneth J., US Department of Defense, \$99,999, "Nanoscale Metal and Metal Oxide Particle Chemistry: Unique Catalytic, Adsorptive, and Storage Capabilities."

Klabunde, Kenneth J., and **Sorensen, Christopher M.** (Physics), National Aeronautics and Space Administration, \$35,000, "Nanocrystal Superlattices: Synthesis and Properties."

Klabunde, Kenneth J., (see **Hollingsworth, Mark D.**, Chemistry).

Klabunde, Kenneth J., (see **Sorensen, Christopher M.**, Physics).

Maatta, Eric A., National Science Foundation, \$14,790, "Nitrido Polyoxometalate Complexes."

Ortiz, J. Vincent, National Science Foundation, \$110,000, "Ab Initio Electron Propagator Calculations on Molecular Anions."

Sherwood, Peter M., Kansas Technology Enterprise Corporation, \$134,974, "Kansas DEPSCoR: Kansas Defense 2000 Program for Year One."

Sherwood, Peter M., Kansas Technology Enterprise Corporation, \$342,037, "Kansas Defense 2000."

Sherwood, Peter M., Kansas Technology Enterprise Corporation, \$70,143, "Kansas Defense 2010."

Sherwood, Peter M., Lease, Kevin B. (Mechanical and Nuclear Engineering), and **Wang, Youqi** (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, \$159,186, "Studies of the Role of Surface Treatment and Sizing of Carbon Fiber Surfaces on the Mechanical Properties of Composites Containing Carbon Fibers."

Sherwood, Peter M., (see **Hollingsworth, Mark D.**, Chemistry).

Warmuth, Ralf, National Science Foundation, \$298,900, "Investigation of Reactive Intermediates and Inner Phase Reactions Inside Molecular Container Compounds."

Warmuth, Ralf, US Department of Health and Human Services, \$145,558, "Structural Investigation of Unnatural Peptide Helices."

Waterland, Mark R., Kelley, Anne M., and Kelley, David F., Foundation for Research, Science and Technology, \$17,702, "Solvent Effects in Charge-Transfer Processes."

OFFICE OF THE DEAN OF THE COLLEGE OF ARTS AND SCIENCES

Spears, Jacqueline D., (see **Montelone, Beth A.**, Biology).

ECONOMICS

Babcock, Michael W., Kansas Department of Transportation, \$43,000, "Land Value Appraisal Methods for Highway Right-of-Way Acquisition."

Ragan, Jr., James F., Multisponsor, \$8,622, "Roe R. Cross Chair of Economics."

ENGLISH

Rodgers, Lawrence R., John E. and Grace M. Bohannon, \$10,130, "Bohannon Award."

GEOGRAPHY

Goodin, Douglas G., and **Harrington, Jr., John A.**, National Aeronautics and Space Administration, \$161,900, "Spatial and Spectral Scale Dimensions for Modeling Kansas Rural Resource Systems: Projections for Global Change."

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

Goodin, Douglas G., (see **Uhlarik, John J.**, Psychology).

Harrington, Jr., John A., Goodin, Douglas G., Harrington, Lisa M., Kromm, David E., Lu, Max, and White, Stephen E., National Science Foundation, \$55,665, "Infrastructure to Develop a Human-Environment Regional Observatory Network."

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

Harrington, Jr., John A., (see **Lu, Max**, Geography).

Harrington, Jr., John A., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

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

Kromm, David E., (see **Harrington, Jr., John A.**, Geography).

Lu, Max, and Harrington, Jr., John A., US Environmental Protection Agency, \$7,447, "Kansas Action Targeting System."

Lu, Max, (see **Harrington, Jr., John A.**, Geography).

Seyler, Harry L., and Ransom, Michel D. (Agronomy), US Department of Agriculture, \$110,700, "SSURGO Certification of Soil Surveys in Kansas."

White, Stephen E., (see **Harrington, Jr., John A.**, Geography).

GEOLOGY

Gao, Stephen S., National Science Foundation, \$51,336, "Portable Seismic Experiment Across Northeast Kansas."

Gao, Stephen S., National Science Foundation, \$38,937, "Low Coherent, High Resolution WDM Reflectometry for Fiber Length Measurement."

Hubbard, Mary S., (see **Uhlarik, John J.**, Psychology).

HISTORY

Higham, Robin, Journal of the West, Inc., \$49,747, "Journal of the West."

Holl, Jack M., American Scientific Affiliation, \$4,000, "Templeton Foundation/American Scientific Affiliation Lectures in Science and Religion."

A. O. MILLER SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

Oukrop, Carol E., James S. and James L. Knight Foundation, \$140,315, "Still More Than You Ever Wanted to Know About Women in Journalism and Mass Communication Education."

Simon, Todd F., Kansas State University Foundation, \$30,000, "Huck Boyd National Center for Community Media."

Simon, Todd F., Multisponsor, \$66,120, "Journalism and Mass Communications Website Management."

Simon, Todd F., Kansas Board of Regents, \$21,700, "Development and Management of Websites."

KINESIOLOGY

Barstow, Thomas J., American Heart Association, Heartland Affiliate, \$110,000, "Model of Muscle Blood Flow Incorporating Oscillations from Muscle Pump and Impedance to Flow."

Dzewaltowski, David A., US Department of Health and Human Services, \$517,526, "Youth Environments Promoting Nutrition and Activity."

Dzewaltowski, David A., Gerondelis Foundation, Inc., \$5,000, "Scholarship/Fellowship for Zoi Leroutsou."

Dzewaltowski, David A., Robert Wood Johnson Foundation, \$12,000, "Evaluating and Enhancing the REACH and Dissemination of Health Promotion Interventions: The Behavior Change Consortium."

Harms, Craig A., American Heart Association, Heartland Affiliate, \$34,512, "Mechanisms of Interaction between Hyperpnea and Cardiovascular Function."

Harms, Craig A., American Lung Association, \$24,963, "Pulmonary Limitations in Healthy Subjects during Exercise."

Poole, David C., and Musch, Timothy I., (Anatomy and Physiology), US Department of Health and Human Services, \$200,639, "Muscle Capillary Geometry, Flow, and Oxygen Transfer."

MATHEMATICS

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

Bennett, Andrew G., (see **Zollman, Dean A.**, Physics).

Chermak, Andrew L., (see **Lin, Zongzhu**, Mathematics).

Lin, Zongzhu, and **Chermak, Andrew L.**, National Science Foundation, \$10,000, "Finite Simple Groups, Geometries, Buildings and Related Topics - Conference in Honor of Ernest Shult."

Pinner, Christopher G., National Science Foundation, \$48,450, "Inhomogeneous Diophantine Approximation and Polynomial Problems."

Rosenberg, Alexander, National Science Foundation, \$42,300, "D-modules on Noncommutative Spaces, Noncommutative Local Algebra and Representations, Noncommutative Smooth Spaces."

Soibelman, Yan S., US Dept. Of State/US DHHS/NSF, \$7,900, "Quantum Homogeneous Spaces and Related Questions of Quantum Group Theory."

MUSIC

Fallin, Jana R., Kansas Arts Commission, \$1,600, "Music Symposium."

Hunt, Paul B., John E. and Grace M. Bohannon, \$10,130, "Bohannon Award."

PHYSICS

Bolton, Timothy A., Kansas Technology Enterprise Corporation, \$133,679, "Kansas Advanced Semiconductor Project."

Bolton, Timothy A., US Department of Energy, \$1,200,000, "Kansas Advanced Semiconductor Project."

Bolton, Timothy A., (see **Reay, Neville W.**, Physics).

Chakrabarti, Amitabha, US Department of Commerce, \$35,987, "Anisotropic Ordering of Phase Separating Liquid Mixtures Under a Steady Shear Flow."

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

Demina, Regina, (see **Reay, Neville W.**, Physics).

DePaola, Brett D., (see **Weaver, Oliver L.**, Physics).

Esry, Brett D., National Science Foundation, \$100,000, "Theoretical Investigation of Few-Body Systems."

Jiang, Hongxing, and **Lin, Jingyu**, Thomas Swan Scientific Equipment Ltd., \$164,800, "Nitrides Growth by MOCVD."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Defense, \$119,300, "Fabrication and Optical Recombination in III-Nitride Microstructures and Devices."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Defense, \$250,010, "III-Nitride Micro- and Nano-Structures and Devices—Growth, Fabrication and Characterization."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Defense, \$50,000, "Micro- and Nano-Cavity Blue/UV Photonic Devices."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Energy, \$100,000, "Optical and Electrical Properties of III-V Nitride Wide Bandgap Semiconductors."

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

Jiang, Hongxing, (see **Sorensen, Christopher M.**, Physics).

Law, Bruce M., National Science Foundation, \$128,000, "Interfacial Phenomena Near Phase Transitions."

Law, Bruce M., National Science Foundation, \$30,000, "Interfacial Phenomena Near Critical Points."

Lin, Jingyu, and **Jiang, Hongxing**, National Science Foundation, \$143,326, "Mechanisms of Optical Transitions in A1GaN Alloys and GaN/A1 GaN Quantum Wells."

Lin, Jingyu, and **Jiang, Hongxing**, US Department of Defense, \$350,000, "III—Nitrides Growth, Characterization, and Devices -For High Power Electronic Device and Deep UV Sensor Applications."

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

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

Lin, Jingyu, (see **Sorensen, Christopher M.**, Physics).

Rahman, Talat S., Kansas Technology Enterprise Corporation, \$12,500, "Atomistic Studies of Nanotribology: Finite Temperature Energetics and Vibrational Dynamics."

Rahman, Talat S., National Science Foundation, \$1,170,834, "Evolution of Nanoscale Film Morphology."

Rahman, Talat S., National Science Foundation, \$15,000, "International: 26th International Nathiagali Summer College on Physics and Contemporary Needs: Islamabad, Pakistan 25th June - 14th July, 2001."

Rahman, Talat S., National Science Foundation, \$15,000, "Twenty-Fifth International Nathiagali Summer College on Physics and Contemporary Needs: Islamabad, Pakistan June 24th - July 5th, 2000."

Rahman, Talat S., US Department of Energy, \$41,000, "Structure, Dynamics and Thermodynamics of Metal Surfaces."

Rahman, Talat S., US Department of Energy, \$50,000, "Atomistic Studies of Nanotribology: Finite Temperature Energetics and Vibrational Dynamics."

Reay, Neville W., US Department of Energy, \$138,796, "D0 Silicon Microstrip Detector Project."

Reay, Neville W., **Bolton, Timothy A.**, **Demina, Regina**, **Sidwell, Ronald A.**, and **Stanton, Noel R.**, US Department of Energy, \$660,000, "Heavy Quark and Neutrino Physics."

Richard, Patrick, US Department of Energy, \$2,420,000, "Structure and Dynamics of Atoms, Ions, Molecules, and Surfaces."

Sidwell, Ronald A., (see **Reay, Neville W.**, Physics).

Sorensen, Christopher M., National Science Foundation, \$105,000, "Aerosol Physics: Optics, Gelation and Turbulent Aggregation."

Sorensen, Christopher M., and **Chakrabarti, Amitabha**, National Aeronautics and Space Administration, \$80,001, "Gelation in Aerosols: Non-Mean-Field Aggregation Kinetics."

Sorensen, Christopher M., **Jiang, Hongxing**, **Klabunde, Kenneth J.** (Chemistry), and **Lin, Jingyu**, National Science Foundation, \$15,000, "Neutron Scattering Studies of Magnetic Semiconductor Thin Films and Nanostructures."

Sorensen, Christopher M., (see **Klabunde, Kenneth J.**, Chemistry).

Stanton, Noel R., (see **Reay, Neville W.**, Physics).

Thumm, Uwe, National Science Foundation, \$40,000, "Quantum Dynamics in Particle—Solid Interactions."

Thumm, Uwe, US Department of Energy, \$70,000, "Strong External Field Effects in Decay and Photodetachment of Negative Ions."

Weaver, Oliver L., and **DePaola, Brett D.**, National Science Foundation, \$70,853, "Undergraduate Summer Research Experimental and Theoretical Physics."

Zollman, Dean A., US Department of Education, \$23,000, "Enhancing the Teaching of Contemporary Physics through Online Instruction for Teachers."

Zollman, Dean A., and **Bennett, Andrew G.** (Mathematics), National Science Foundation, \$326,852, "Conceptual Model-Based Assessment and Technology: Research in Student Application of Models in Physics and Mathematics."

Zollman, Dean A., (see **Staver, John R.**, Dean of Education).

POLITICAL SCIENCE

Bagby, Laurie M., Earhart Foundation, \$16,958, "Certificate in the Study of Arts and Sciences through Primary Texts."

PSYCHOLOGY

Brockel, Becky J., US Department of Health and Human Services, \$193,626, "Lead: Attention, Impulsivity, and Dopamine."

Fullagar, Clive J. A., and **Shanteau, James C.**, US Department of Defense, \$112,951, "Cognitive and Social Influences on Team Performance: An Investigation of Psychological Skills in Complex, Technological Environments."

Fullagar, Clive J. A., (see **Shanteau, James C.**, Psychology).

Hemenover, Scott H., (see **Shanteau, James C.**, Psychology).

Kiefer, Stephen W., Council of Graduate Departments of Psychology, \$12,000, "Council of Graduate Departments of Psychology."

Kiefer, Stephen W., (see **Smith, Ann S.**, Biology).

Shanteau, James C., US Department of Transportation, \$192,758, "Performance-Based Description of Expertise in Air Traffic Control."

Shanteau, James C., US Department of Transportation, \$12,500, "Development of Instruction Materials for C-TEAM."

Shanteau, James C., **Fullagar, Clive J. A.**, and **Hemenover, Scott H.**, US Department of Defense, \$37,195, "Selecting and Classifying the 'Good Sailor': Exploring the Non-Cognitive Predictors of Expert Team Performance in Complex Technological Contexts."

Shanteau, James C., (see **Fullagar, Clive J. A.**, Psychology).

Uhlarik, John J., US Department of Transportation, \$35,000, "Cockpit Displays of Digital Weather and Operational Information: Identification and Summary of Human Factors Issues."

Uhlarik, John J., **Chapes, Stephen K.** (Biology), **Goodin, Douglas G.** (Geography), and **Hubbard, Mary S.** (Geology), National Aeronautics and Space Administration, \$41,000, "Kansas Space Grant Consortium."

Uhlarik, John J., (see **Gorder, Peter J.**, Mechanical and Nuclear Engineering).

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

Cauble, A. Elizabeth, (see **Williams, L. Susan**, Sociology, Anthropology, and Social Work).

Goe, W. R., US Department of Agriculture, \$39,800, "Agriculture in the Internet Economy."

Goe, W. R., National Science Foundation, \$24,999, "Internet and the U. S. Agriculture System."

Ritterbush, Lauren W., National Science Foundation, \$27,600, "Western Oneota Migration."

Roper, Donna C., US Department of the Interior, \$59,938, "Archeological Investigations at Medicine Creek Reservoir, Nebraska."

Verschelden, Cia, Kansas Department of Social and Rehabilitation Services, \$11,331, "Kansas Initiative for Decision Support."

Williams, L. Susan, and **Cauble, A. Elizabeth**, US Department of Justice, \$40,000, "Juvenile Justice Authority: Community Needs Assessment."

STATISTICS

Milliken, George A., Kansas Water Office, \$25,000, "Assessment: General Statistical Assistance."

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

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING

Donnelly, David P., US Department of Defense, \$73,608, "Occupational Stress and Turnover Issues Relating to Gender and Ethnicity: The Mediating Effects of Social Support, Locus of Control, and Employment Expectations."

Vruwink, David R., (see **Niehoff, Brian P.**, Dean of Business Administration).

OFFICE OF THE DEAN OF THE COLLEGE OF BUSINESS ADMINISTRATION

Ebadi, Yar M., Kansas State University Foundation, \$223,755, "Kansas State University Foundation Support."

Niehoff, Brian P., **McCahon, Cynthia S.** (Management), and **Vruwink, David R.** (Accounting), MBA Practicum (Multi-Sponsor), \$3,000, "MBA Practicum (Multi-Sponsor)."

MANAGEMENT

McCahon, Cynthia S., (see **Niehoff, Brian P.**, Dean of Business Administration).

Turnley, Jr., William H., US Department of Defense, \$59,271, "Impact of Social Intelligence and Impression Management on Perceived Leadership Potential and Group Cohesiveness."

SMALL BUSINESS DEVELOPMENT CENTER

Rice, Frederick H., US Small Business Administration, \$36,979, "Small Business Development Center."

COLLEGE OF EDUCATION

OFFICE OF THE DEAN OF THE COLLEGE OF EDUCATION

Bay-Williams, Jennifer M., US Department of Education, \$52,398 (includes \$10,369 from USD 383, Manhattan, Kansas), "Supporting Mathematics and Reading through Books (SMART Books) Project for Elementary and Middle School Teachers."

Flaherty, Roberta D., National Academic Advising Association, \$287,362, "National Academic Advising Association Executive Office."

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, \$72,920, "Kansas Foundation for Agriculture in the Classroom."

Havlicek, Barbara J., Multisponsor, \$116,996, "Educational Computer Assistance."

Havlicek, Barbara J., Multisponsor, \$9,731, "Council for Public School Improvement."

Herrera, Socorro G., US Department of Education, \$240,000, "Project Besitos."

Herrera, Socorro G., USD 253, Emporia, \$116,027, "USD 253, Emporia, Kansas School District." (2 awards)

Holen, Michael C., John E. and Grace M. Bohannon, \$15,196, "Bohannon Award."

Holen, Michael C., US Department of Education, \$32,005, "Manhattan USD #383 and Kansas State University Memorandum of Agreement."

Holen, Michael C., US Department of Education, \$8,133, "Royal Valley Unified School District #337 Memorandum of Understanding."

McCann, Kevin M., US Department of Education, \$37,800, "USD #378 Memorandum of Agreement."

McCann, Kevin M., (see **Thurston, Linda P.**, Dean of Education).

Murry, Kevin G., US Department of Education, \$203,927, "Project Alcance."

Murry, Kevin G., US Department of Education, \$208,700, "Project CALLE 2000 (Computer Assisted Language Learning for Education)."

Polson, Cheryl J., US Department of Defense, \$6,555, "Introduction to Adult Education (Fall 2000)."

Rankin, Charles I., US Department of Education, \$25,000, "IAS Regional Conference."

Rankin, Charles I., US Department of Education, \$753,399, "Midwest Desegregation Assistance Center."

Ross, Tweed R., US Department of Education, \$256,959, "Teachers Teaching with Technology (T3) Academy."

Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), **Yahnke, Sally J.** (Secondary Education), and **Smith, Ann S.** (Biology), US Department of Education, \$1,292,353, "Improving Teacher Quality through the Kansas State University Professional Development Schools Partnership."

Staver, John R., Shroyer, Margaret G. (Elementary Education), and **Zollman, Dean A.** (Physics), National Science Foundation, \$387,140, "Kansas Collaborative for Excellence in Teacher Preparation."

Steichen, Ethel M., US Department of Education, \$34,177, "Off to a Good Start 21st Century Community Learning Center."

Steichen, Ethel M., US Department of Education, \$37,500, "USD #378 Memorandum of Agreement."

Thurston, Linda P., and **McCann, Kevin M.**, US Department of Education, \$5,000, "Goals 2000: Educate American Act/Barnes—Smoky Hill."

Wright, Emmett L., Multisponsor, \$61,085, "Educational, Cultural and Scientific Cooperation Between the Oblast of Voronezh, the Russian Federation, and the State of Kansas."

Wright, Emmett L., National Aeronautics and Space Administration, \$25,018, "NOVA On-Line ESS."

ELEMENTARY EDUCATION

Goldston, M. Jenice, Kansas Health Foundation, \$24,274, "Kansas First for Community Education."

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

Smith, Ben A., National Geographic Society, \$55,506, "Kansas Geographic Alliance."

Spears, Jacqueline D., and **Wright, Emmett L.**, US Department of State, \$123,000, "Kansas/Voronezh Connection."

FOUNDATIONS AND ADULT EDUCATION

McGrath, Diane, Community Online Resource Exchange, \$10,000, "Memorandum of Agreement between Community Online Resource Exchange and the Department of Foundations and Adult Education."

McGrath, Diane, (see **Blair, John M.**, Biology).

SECONDARY EDUCATION

Kane, Mary R., Kansas State Department of Education, \$69,220, "FFA-YF/YFW Organizations."

Kane, Mary R., US Department of Education, \$11,222, "Professional Development."

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

SPECIAL EDUCATION

White, Warren J., (see **Zabel, Mary Kay**, Special Education).

Zabel, Mary Kay, and **White, Warren J.**, US Department of Education, \$39,399, "IDEA State Improvement Grant."

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE

Azadivar, Farhad, Kansas Technology Enterprise Corporation, \$900,000, "Kansas Technology Enterprise Corporation Center of Excellence Grant."

Azadivar, Farhad, Kansas Technology Enterprise Corporation, \$100,000 (includes \$50,000 from Heatron), "One Step Synthesis of Vegetable Oil-Based Polyols for Urethane Applications."

Azadivar, Farhad, and **Kramer, Bradley A.**, National Science Foundation, \$20,000, "International Conference on Partnerships between Small Manufacturers and Universities for Technological Innovation, Education, and Economic Development."

Kramer, Bradley A., Kansas Technology Enterprise Corporation, \$150,000, "Engineering Learning Center: A Model for Systemic Engineering Education Reform."

Kramer, Bradley A., National Institute of Standards and Technology, \$585,463, "MAMTC Regional Office."

Kramer, Bradley A., Kansas Technology Enterprise Corporation, \$50,000, "1999 Manufacturing Education Plan Grants Program."

Kramer, Bradley A., (see **Azadivar, Farhad**, Advanced Manufacturing Institute).

Tucker, Jeffrey W., Multisponsor, \$267,097, "Advanced Manufacturing Institute-Manufacturing Learning Center."

ARCHITECTURAL ENGINEERING AND CONSTRUCTION SCIENCE

Baltimore, Craig V., Federal Emergency Management Agency, \$58,010, "Evaluating Tornado Refuge Areas in Schools Workshop."

Riblett, Carl O., (see **Rathbone, Donald E.**, National Institute for Land Management and Training).

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Barnes, Philip L., Kansas Corn Growers Association, \$27,912, "Pesticide Applicator Timing Used as a Best Management Practice to Improve Water Quality."

Barnes, Philip L., Novartis, \$27,000, "Atrazine Monitoring Project: Joint Nebraska/Kansas Blue River Study."

Barnes, Philip L., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Clark, Gary A., Kansas Water Office, \$60,000, "Technical Assistance to Water Users: KSU Water Assistance Team Mobile Lab."

Clark, Gary A., Fjell, Dale L. (Agronomy), **Martin, Victor L.** (Agronomy), and **Rogers, Danny H.**, Kansas Water Office, \$38,500, "Technical Assistance to Water Users: South Central Kansas Irrigation Scheduling and Water Management Project."

Clark, Gary A., Fjell, Dale L. (Agronomy), **Martin, Victor L.** (Agronomy), and **Rogers, Danny H.**, Kansas Corn Commission, \$24,000, "South Central Kansas Irrigation Management Project."

Clark, Gary A., (see **Rogers, Danny H.**, Biological and Agricultural Engineering).

Harner III, Joseph P., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Kalita, Prasanta K., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Koelliker, James K., (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Maghirang, Ronaldo G., US Department of Health and Human Services, \$36,375, "Improving the Work Environment in Livestock Buildings."

Mankin, Kyle R., Harner III, Joseph P., Kalita, Prasanta K., and Powell, G. Morgan, Kansas Department of Health and Environment, \$98,000, "Ecological Livestock Pollution Control Project."

Mankin, Kyle R., Harrington, Jr., John A. (Geography), and **Koelliker, James K.**, US Environmental Protection Agency, \$120,746, "Kanopolis Watershed Assessment."

Powell, G. Morgan, (see **Mankin, Kyle R.**, Biological and Agricultural Engineering).

Rogers, Danny H., Alam, Mahbub U. (Southwest Area Office) and **Clark, Gary A.**, World Bank, \$20,200, "Optimizing Irrigation Scheduling Techniques."

Rogers, Danny H., (see **Clark, Gary A.**, Biological and Agricultural Engineering).

Rogers, Danny H., (see **Schmidt, John P.**, Agronomy).

Wang, Donghai, US Department of Agriculture, \$73,500, "Automated Detection of Single Kernel Grain Attributes."

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

Zhang, Naiqian, US Department of Agriculture, \$65,000, "Identification of Wheat Quality Characteristics Using Single Kernel Spectral Analysis."

Zhang, Naiqian, (see **Neilsen, Mitchell L.**, Computing and Information Sciences).

CENTER FOR HAZARDOUS SUBSTANCE RESEARCH

Erickson, Larry E., US Agency for International Development, \$2,292, "Community Based Drinking Water Assessment."

Erickson, Larry E., US Department of Health and Human Services, \$8,000, "NIEHS Support for 2001 Conference."

Erickson, Larry E., and **Hayter, Richard B.** (Extension Engineering), US Environmental Protection Agency, \$1,043,546 (includes \$28,528 from Colorado School of Mines, \$35,795 from University of Iowa, and \$20,148 from University of Nebraska), "Great Plains/Rocky Mountain Hazardous Substance Research Center."

Erickson, Larry E., and **Hayter, Richard B.** (Extension Engineering), US Environmental Protection Agency, \$681,000, "Collateral Great Plains/Rocky Mountain Hazardous Substance Research Center Program."

Erickson, Larry E., and **Hayter, Richard B.** (Extension Engineering), Chevron Corporation, \$16,080, "Chevron Corporation."

Erickson, Larry E., and **Kulakow, Peter A.** (Agronomy), US Department of Defense, \$31,857, "Assessment of Plant Root Development in Alternative Cover Plots at Rocky Mountain Arsenal, Colorado."

Erickson, Larry E., (see **Guikema, James A.**, Vice Provost for Research and Dean of Graduate School).

Erickson, Larry E., (see **Pierzynski, Gary M.**, Agronomy).

CHEMICAL ENGINEERING

Edgar, James H., US Department of Defense, \$83,973, "Study of Growth Morphology and Defect Generation in Aluminum Nitride Crystals Grown by Sublimation."

Edgar, James H., US Department of Energy, \$145,037, "Epitaxial Growth of Icosahedral Boride Semiconductors for Novel Energy Conversion Devices."

Erickson, Larry E., and **Hosni, Mohammad H.** (Institute for Environmental Research), National Science Foundation, \$914,208 (includes \$113,992 from the University of Kansas Center for Research, Inc., and \$50,216 from University of Nebraska), "Environmental Air Quality."

Erickson, Larry E., and **Hosni, Mohammad H.** (Institute for Environmental Research), Kansas Technology Enterprise Corporation, \$50,000, "Environmental Air Quality."

Erickson, Larry E., and **Pierzynski, Gary M.** (Agronomy), US Department of Defense, \$1,240, "Environmental Technical Review Support (Remediation Technology) for Cleanup of Lead in Soils at Ft. McClellan."

Gehrke, Stevin H., Kansas Technology Enterprise Corporation, \$10,482, "Molecular Simulations of Complex Fluids in Confined Geometries."

Gehrke, Stevin H., National Aeronautics and Space Administration, \$64,900, "Design, Synthesis and Characterization of Well-Defined, Biomimetic Polypeptide Networks."

Gehrke, Stevin H., US Department of Energy, \$45,040, "Molecular Simulations of Complex Fluids in Confined Geometries."

Glasgow, Larry A., (see **Reddi, Lakshmi N.**, Civil Engineering).

Hohn, Keith L., National Science Foundation, \$12,400, "Catalytic Partial Oxidation."

CIVIL ENGINEERING

Bhandari, Alok, US Environmental Protection Agency, \$17,078, "Role of Natural Organic Materials in the Disposition and Binding of Organic Contaminants and Heavy Metals."

Bhandari, Alok, (see **Starrett, Steven K.**, Civil Engineering).

Cai, Chunsheng, (see **Peterman, Robert J.**, Civil Engineering).

Hossain, Mustaque A., Kansas Department of Transportation, \$4,000, "Performance of Ultra Thin Bonded Overlay."

Hossain, Mustaque A., Kansas Department of Transportation, \$8,000, "Investigation of Stresses within Cross-Tensioned Concrete (CTCP) Pavements."

Hossain, Mustaque A., (see **Najjar, Yacoub M.**, Civil Engineering).

Hossain, Mustaque A., and **Romanoschi, Stefan A.**, Kansas Department of Transportation, \$62,000, "Permeability of Superpave Asphalt Mixtures."

Landman, E. Dean, (see **Russell, Eugene R.**, Civil Engineering).

Melhem, Hani G., (see **Peterman, Robert J.**, Civil Engineering).

Najjar, Yacoub M., National Science Foundation, \$58,811, "Retrainable Class of Constitutive Models for Sand: A Neuro-Mechanistic Approach."

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| Najjar, Yacoub M. , and Hossain, Mustaque A. , Kansas Department of Transportation, \$82,000, "Modeling the Performance of Superpave and PCC Constructed Pavements." | Russell, Eugene R. , Kansas Department of Transportation, \$40,000, "Update and Modification of the Kansas Low-Volume Roads Handbook and the Handbook of the Traffic Engineering Practices for Small Cities." |
| Peterman, Robert J. , Central Steel, Inc., \$500, "Integrating Classroom Learning and Industrial Practice through Hands-On Experiences in the Civil Engineering Undergraduate Design Curriculum." | Russell, Eugene R. , US Department of Transportation, \$102,577, "Traffic Assistance Services for Kansas (TASK)." |
| Peterman, Robert J. , Cessna Aircraft Company, \$31,800, "Evaluation of High-Performance Structural Materials Under Static and Dynamic Loading." | Russell, Eugene R. , US Department of Transportation, \$20,000, "Update and Modification of the Kansas Low-Volume Roads Handbook and the Handbook of Traffic Engineering Practices of Small Cities." |
| Peterman, Robert J. , Great Bend Industries, \$3,000, "Behavior of High-Performance Concrete Members at Service Load and Incipient Failure." | Russell, Eugene R. , and Landman, E. Dean , Kansas Department of Administration, \$42,500, "Development of Multiple Growth Strategies for Use in Developing Traffic Forecasts." |
| Peterman, Robert J. , Havens Steel Company, \$75,000, "Establishing a State-of-the-Art Full-Scall Structural Research Facility at Kansas State University." | Russell, Eugene R. , and Landman, E. Dean , Kansas Department of Transportation, \$50,000, "Assessment of a Personal Rapid Transit System within a University Campus and Surrounding Community." |
| Peterman, Robert J. , Kansas Department of Transportation, \$2,332, "Data Reduction and Analysis of FRP Bridge Deck Design Validation Tests." | Russell, Eugene R. , and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), US Department of Transportation, \$18,838 (includes \$3,838 from City of Hutchinson), "Further Study of Roundabouts." |
| Peterman, Robert J. , Kansas Department of Transportation, \$60,000, "Evaluating FRP Repair Method for Cracked Prestressed Concrete Bridge Members Subjected to Repeated Loadings." | Russell, Eugene R. , and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$70,000, "Roundabouts Phase II: Study of Constructed Roundabouts at Newton, Paola and Topeka." |
| Peterman, Robert J. , National Science Foundation, \$63,110, "Restraint Moment Elimination Strategies for Improved Durability of Continuous Prestressed Concrete Bridges." | Russell, Eugene R. , (see Stokes, Robert W. , Civil Engineering). |
| Peterman, Robert J. , Nucor Corporation, \$1,510, "Establishing a State-of-the-Art Full-Scale Structural Research." | Starrett, Steven K. , US Golf Association, \$23,633, "Comparing Nutrient Losses via Runoff from a New Golf Course and the Golf Course Site's Previous Native Condition." |
| Peterman, Robert J. , PKM Steel Service, Inc., \$23,650, "Integrating Classroom Learning and Industrial Practice through Hands-On Experiences in the Civil Engineering Undergraduate Design Curriculum." | Starrett, Steven K. , and Bhandari, Alok , Kansas Army National Guard, \$4,990, "Preliminary Environmental Assessment of Lateral Field Used for Liquid Disposal from Kansas National Guard Maintenance Facility #11." |
| Peterman, Robert J. , Sturgis Equipment Company of Kansas City, \$4,018, "Behavior of High-Performance Concrete Members at Service Load and Incipient Failure." | Starrett, Steven K. , Bhandari, Alok , Thien, Stephen J. (Agronomy), and Xia, Kang (Agronomy), US Golf Association, \$30,000, "Fate of Patricides and Their Partitioning among Water, Soil and Biomass Elements in a Turfgrass Ecosystem." |
| Peterman, Robert J. , US Department of Transportation, \$11,052, "Evaluating FRP Repair Method for Cracked Prestressed Concrete Bridge Members Subjected to Repeated Loadings (Phase 1)." | Steward, David R. , KIWA N. V., \$4,644, "Refinement of an Analytic-Based Model for Flow Near a Horizontal Radial Collector Well." |
| Peterman, Robert J. , and Cai, Chunsheng , US Department of Transportation, \$120,612, "Performance Investigation of a Fiber-Reinforced Composite Honeycomb Deck for Bridge Application." | Steward, David R. , National Science Foundation, \$4,000, "Initiation of Graduate Student Exchange with Ecoloe des Mines, Saint-Etienne, France." |
| Peterman, Robert J. , and Melhem, Hani G. , Stresscon Corporation, \$39,912, "Evaluation of the Strand Development Length in Cracked Prestressed Concrete Members under Cyclic Loading." | Steward, David R. , RIZA, \$15,000, "Developing an Analytic Model of Inhomogeneity Bounded by a Rectangular Parallelepiped, Part 1: Theory." |
| Reddi, Lakshmi N. , John E. and Grace M. Bohannon, \$15,196, "Bohannon Award." | Stokes, Robert W. , Russell, Eugene R. , and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$15,000, "Feasibility of Automated Traffic Signal Enforcement in Kansas." |
| COMPUTING AND INFORMATION SCIENCES | |
| Reddi, Lakshmi N. , Glasgow, Larry A. (Chemical Engineering), and Marchin, George L. (Biology), National Science Foundation, \$51,264, "Development of Soil Filter Design Nomograms Incorporating Physicochemical and Biological Mechanisms." | Andresen, Daniel A. , Neilsen, Mitchell L. , and Singh, Gurdip , National Science Foundation, \$314,178, "DHARMA: Domain-Specific Metaware for Hydrologic Applications." |
| Reddi, Lakshmi N. , (see Ham, Jay M. , Agronomy). | Andresen, Daniel A. , (see Neilsen, Mitchell L. , Computing and Information Sciences). |
| Reddi, Lakshmi N. , (see Pierzynski, Gary M. , Agronomy). | Dwyer, Matthew B. , Honeywell International, Inc., \$90,000, "Automated Finite-State Verification for Avionics Software." |
| Romanoschi, Stefan A. , (see Hossain, Mustaque A. , Civil Engineering). | Dwyer, Matthew B. , National Science Foundation, \$24,151, "Experimental Study of Static Analysis Techniques for Concurrent Software." |
| Russell, Eugene R. , Insurance Institute for Highway Safety, \$27,022, "Roundabout Field Study." | Dwyer, Matthew B. , National Science Foundation, \$25,000, "Engineering High-Quality Concurrent Software." |
| Russell, Eugene R. , Kansas Department of Transportation, \$17,500, "Administration of KDOT/K-TRAN Program." | |

Dwyer, Matthew B., and **Hatcliff, John M.**, US Department of Defense, \$205,548, "Software Model Checking for Embedded Systems."

Dwyer, Matthew B., **Hatcliff, John M.**, **Mizuno, Masaaki**, **Neilsen, Mitchell L.**, and **Singh, Gurdip**, Defense Advanced Research Projects Agency, \$350,000, "Automatic Derivation, Integration, and Verification of Synchronization Aspects in Object-Oriented Design Methods."

Gustafson, David A., US Department of Energy, \$66,735, "Parallelizations of Accelerator Simulations."

Hatcliff, John M., (see **Dwyer, Matthew B.**, Computing and Information Sciences).

Hsu, William H., US Department of Defense, \$80,000, "Synthesis, Reduction and Integration of Test and Evaluation Data for Monitoring Applications."

Hsu, William H., and **Chang, Shing I.** (Industrial and Manufacturing Systems Engineering), US Department of Defense, \$114,957, "Distributed Data Mining and Knowledge Discovery System for the Navy Personnel Research."

Hsu, William H., and **Chang, Shing I.** (Industrial and Manufacturing Systems Engineering), US Department of Defense, \$39,131, "Real-Time Temporal Probabilistic Inference using Bayesian Networks: Decision Support in Manpower and Personnel Management."

Mizuno, Masaaki, (see **Dwyer, Matthew B.**, Computing and Information Sciences).

Mizuno, Masaaki, (see **Neilsen, Mitchell L.**, Computing and Information Sciences).

Neilsen, Mitchell L., **Andresen, Daniel A.**, and **Mizuno, Masaaki**, US Department of Agriculture, \$20,000, "Software Tools for Watershed Dam Design/Analysis."

Neilsen, Mitchell L., **Andresen, Daniel A.**, and **Mizuno, Masaaki**, Wind River Systems, Inc., \$467,600, "Real-Time Operating System: Tornado/vxWorks."

Neilsen, Mitchell L., **Lenhert, Donald H.** (Electrical and Computer Engineering), **Mizuno, Masaaki**, **Singh, Gurdip**, and **Zhang, Naiqian** (Biological and Agricultural Engineering), National Science Foundation, \$5,000, "Real-Time Embedded Systems Research and Curriculum Development."

Neilsen, Mitchell L., (see **Andresen, Daniel A.**, Computing and Information Sciences).

Neilsen, Mitchell L., (see **Dwyer, Matthew B.**, Computing and Information Sciences).

Schmidt, David A., National Science Foundation, \$54,352, "Open Source Quality Project."

Schmidt, David A., National Science Foundation, \$55,614, "Design Conformant Software."

Singh, Gurdip, (see **Andresen, Daniel A.**, Computing and Information Sciences).

Singh, Gurdip, (see **Dwyer, Matthew B.**, Computing and Information Sciences).

Singh, Gurdip, (see **Neilsen, Mitchell L.**, Computing and Information Sciences).

Wallentine, Virgil E., ATandT Technologies, \$3,589, "ATandT Summer On Campus."

Wallentine, Virgil E., Multisponsor, \$88,992, "CIS Internship Program."

OFFICE OF THE DEAN OF THE COLLEGE OF ENGINEERING

Franks, Suzanne E., (see **Montelone, Beth A.**, Biology).

King, Terry S., Multisponsor, \$15,000, "Pre-Enrollment Mathematics and Sciences Tutoring of Minority Engineering Recruits."

ELECTRICAL AND COMPUTER ENGINEERING

Carpenter, Kenneth H., US Department of Energy, \$60,647, "Integrated Firing-System/Initiation-Train Modeling Enhancement."

Gruenbacher, Don M., National Aeronautics and Space Administration, \$11,700, "Analysis of Interspacecraft Communications."

Gruenbacher, Don M., Sprint Spectrum, LP., \$12,965, "Sprint Services Agreement."

Kuhn, William B., National Science Foundation, \$15,746, "Combining Research and Education in Developing Fully Integrated Wireless Transceivers."

Kuhn, William B., National Aeronautics and Space Administration, \$64,487, "Applications of Spiral Inductors and Transformers in JPL's System-on-a-Chip (SOAC) Development Initiatives."

Kuhn, William B., Motorola, Inc., \$27,447, "Alternative Receiver Architectures for Bluetooth."

Lenhert, Donald H., (see **Neilsen, Mitchell L.**, Computing and Information Sciences).

Meier, Russell D., Microsoft Corporation, \$47,850, "Microsoft Sponsored Grant for Software Licenses."

Meier, Russell D., (see **Sobering, Timothy J.**, Vice Provost Electronics Design Laboratory).

Simons, Gale G., Western Resources, Inc., \$47,529, "Kansas Wind Energy Assessment."

Soldan, David L., US Department of Agriculture, \$51,500, "Decision Support System for Insect Pest in Grain Elevators."

Starrett, Shelli K., National Science Foundation, \$43,300 (includes \$25,000 from Power Engineering Education), "IEEE-PES Winter Meeting Student Activities."

Warren, Steven, National Science Foundation, \$75,000, "Beyond Telemedicine: Realizing a Proactive Home Health Care Delivery Model through Research and Education in Plug-and-Play Components and Novel Sensors."

Warren, Steven, National Science Foundation, \$5,000, "Beyond Telemedicine: Realizing a Proactive Home Health Care Delivery Model through Research and Education in Plug-and-Play Components and Novel Sensors."

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

Chang, Shing I., **Hanna, Steven R.**, and **Lee, E. Stanley**, US Department of Defense, \$122,272, "Modeling and Computation of Fuzzy Measures and Reasoning of the Navy Selection and Classification Process."

Chang, Shing I., (see **Hsu, William H.**, Computing and Information Sciences).

Hanna, Steven R., (see **Chang, Shing I.**, Industrial and Manufacturing Systems Engineering).

Hanna, Steven R., (see **Rys, Malgorzata J.**, Industrial and Manufacturing Systems Engineering).

Harnett, R. Michael, US Department of Defense, \$16,821, "Part-Time M.S. Program in Industrial Engineering—Summer 2001."

Harnett, R. Michael, US Department of Defense, \$34,427, "Part-Time M.S. Program in Industrial Engineering—Spring 2001."

Harnett, R. Michael, US Department of Defense, \$44,912, "Part-Time M.S. Program in Industrial Engineering—Fall 2000."

Kramer, Bradley A., Commonwealth of Massachusetts, \$63,857, "Simulation Model for Optimum Policies for Harvesting of Scallops."

Lee, E. Stanley, (see **Chang, Shing I.**, Industrial and Manufacturing Systems Engineering).

Lei, Shuting, National Science Foundation, \$61,210, "Crack-Free Laser Assisted Machining of Ceramics with Complex Profiles."

Lei, Shuting, Society of Manufacturing Engineers, \$14,907, "Distinct Element Simulation for Crack-Free Laser Assisted Machining of Ceramics."

Rys, Malgorzata J., and **Hanna, Steven R.**, US Department of Defense, \$82,385, "Development of Tools for Acquisition and Retention of Navy Personnel."

Rys, Malgorzata J., (see **Russell, Eugene R.**, Civil Engineering).

Rys, Malgorzata J., (see **Stokes, Robert W.**, Civil Engineering).

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven, and **Hosni, Mohammad H.**, Ford Motor Company, \$37,773, "Effects of Oil Separation on Automotive Air Conditioning System Performance."

Eckels, Steven, **Hosni, Mohammad H.**, and **Lebbin, Paul A.**, Ford Motor Company, \$116,400, "Advanced Thermal Management Systems for Automotive Applications."

Eckels, Steven, (see **Hosni, Mohammad H.**, Institute for Environmental Research).

Hosni, Mohammad H., Multisponsor, \$214,700, "Institute for Environmental Research Support."

Hosni, Mohammad H., and **Eckels, Steven** (Mechanical and Nuclear Engineering), Ford Motor Company, \$127,400, "Classic AC/Loop Testing."

Hosni, Mohammad H., and **Jones, Byron W.** (Institute for Environmental Research), Outlast Technologies, Inc., \$19,934, "Evaluation of Fabrics Containing Phase-Change Material."

Hosni, Mohammad H., (see **Eckels, Steven**, Institute for Environmental Research).

Hosni, Mohammad H., (see **Erickson, Larry E.**, Chemical Engineering).

Hosni, Mohammad H., (see **Erickson, Larry E.**, Chemical Engineering).

Hosni, Mohammad H., and **Beck, B. Terry** (Mechanical and Nuclear Engineering), Ford Motor Company, \$56,863, "PIV/LDV Measurements of Air Distribution Around a Heated Manikin."

Jones, Byron W., (see **Hosni, Mohammad H.**, Institute for Environmental Research).

Lebbin, Paul A., (see **Eckels, Steven**, Institute for Environmental Research).

McCullough, Elizabeth A., BHA Technologies, Inc., \$25,000, "Construction of a Dynamic Moisture Permeation Cell."

KANSAS INDUSTRIAL EXTENSION SERVICES

Davis, Sherry J., and **Larson, Nancy J.**, US Environmental Protection Agency, \$55,000, "Pollution Prevention Enhancement Project."

Green, Ryan M., **Davis, Sherry J.** (Extension Engineering), and **Johnson, Barbara L.**, City of Manhattan, KS., \$20,000, "Pollution Prevention Assessment for the City of Manhattan."

Johnson, Barbara L., (see **Green, Ryan M.**, Kansas Industrial Extension Services).

Larson, Nancy J., (see **Davis, Sherry J.**, Kansas Industrial Extension Services).

Meyer, Gene M., State Corporation Commission, \$56,512, "Kansas Energy Extension Services."

Meyer, Gene M., US Department of Energy, \$82,182, "Continuing Efforts to Achieve Building Energy Code Compliance in Kansas."

Nelson, Richard G., US Department of Energy, \$4,000, "Carbon Sequestration and Methane Mitigation, and the Potential for Economic Enhancement in Kansas."

Nelson, Richard G., US Environmental Protection Agency, \$369,000, "Comprehensive Environmental Assistance Program."

Snead, Bruce C., US Environmental Protection Agency, \$27,301, "Regional Radon Training Center."

Snead, Bruce C., US Environmental Protection Agency, \$295,000 (includes \$75,000 from Kansas County Health and Extension Departments), "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, \$33,600 (includes \$400 from Homebuilders Association, \$600 from Nebraska Association of Realtors, and \$12,600 from various other participants), "Radon Projects for Nebraska."

Snead, Bruce C., US Environmental Protection Agency, \$12,360, "Radon Workshops for Michigan."

Snead, Bruce C., US Environmental Protection Agency, \$17,000, "School Construction Workshops—Building It Right for Indoor Air Quality and Energy Efficiency."

MECHANICAL AND NUCLEAR ENGINEERING

Bajorek, Stephen M., National Academy for Nuclear Training, \$14,000, "National Academy for Nuclear Training."

Bajorek, Stephen M., US Department of Energy, \$55,613, "Investigation of Minimum Film Boiling Phenomena on Fuel Rods under Blow-Down Cooling Conditions."

Bajorek, Stephen M., US Department of Energy, \$62,892, "Experimental Investigation on the Effects of Coolant Concentration on Subcooled Boiling and Crud Deposition on Reactor Cladding at Prototypical PWR Operating Conditions."

Bajorek, Stephen M., Westinghouse Electric Company, \$29,749, "Westinghouse—KSU Internship Program."

Bajorek, Stephen M., and **Freeman, David W.**, US Department of Energy, \$20,000, "University Reactor Sharing."

Beck, B. Terry, (see **Hosni, Mohammad H.**, Institute for Environmental Research).

Fenton, Donald L., American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., \$51,991, "Double Walled Heat Exchanger Risk Analysis for Group B1 and Group B2 Refrigerants."

Freeman, David W., (see **Bajorek, Stephen M.**, Mechanical and Nuclear Engineering).

Freeman, David W., (see **Whaley, Paul M.**, Mechanical and Nuclear Engineering).

Gorder, Peter J., **Thompson, J. Garth**, and **Uhlarik, John J.** (Psychology), National Aeronautics and Space Administration, \$159,936, "Advanced Information Subsystems for Next Generation General Aviation Aircraft."

Krishnaswami, Prakash, (see **Wang, Youqi**, Mechanical and Nuclear Engineering).

Lease, Kevin B., US Department of Defense, \$329,248, "Characterization and Evaluation of the Critical Crack Tip Opening Angle Fracture Criterion for Structural Metallic Materials."

Lease, Kevin B., (see **Sherwood, Peter M.**, Chemistry).

Madanshetty, Sameer I., National Science Foundation, \$160,000, "Acoustic Microcavitation Assisted Fine Cleaning of Post CMP Wafers."

Swenson, Daniel V., New Energy Development Organization, \$38,141, "Universal Understanding and Design of Engineered Geothermal Reservoirs."

Thompson, J. Garth, Kansas Technology Enterprise Corporation, \$2,000, "ADMRC Administration."

Thompson, J. Garth, (see **Gorder, Peter J.**, Mechanical and Nuclear Engineering).

Wang, Youqi, National Science Foundation, \$41,064, "Mechanical Performance and Quantitative Nondestructive Evaluation of Textile Composites."

Wang, Youqi, and **Krishnaswami, Prakash**, Kansas Technology Enterprise Corporation, \$50,681, "Development of Three Dimensional Braiding Processes for Aircraft Structural Components."

Wang, Youqi, (see **Sherwood, Peter M.**, Chemistry).

Whaley, Paul M., and **Freeman, David W.**, US Department of Energy, \$72,757, "University Reactor Instrumentation Program."

Xin, Xiao J., Kansas Technology Enterprise Corporation, \$15,549, "Efficient Numerical Method for the Investigation of Composite Materials."

Xin, Xiao J., US Department of Energy, \$65,749, "Efficient Numerical Method for the Investigation of Composite Materials."

NATIONAL GAS MACHINERY LABORATORY

Chapman, Kirby S., American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., \$65,231, "Develop Simplified Methodology to Incorporate Thermal Comfort Factors for Temperature Setback/Setup into In-Space Heating and Cooling Design Calculations."

Chapman, Kirby S., Gas Research Institute, \$295,640, "Development of a Matching Methodology for Turbochargers and Reciprocating Engines."

Chapman, Kirby S., Gas Research Institute, \$324,000, "Comprehensive Turbocharger Research Program."

Chapman, Kirby S., Kansas Technology Enterprise Corporation, \$263,000, "NGML Expansion and Commercialization Opportunities for Kansas."

Chapman, Kirby S., National Science Foundation, \$30,131, "Request for Proposal Preparation Funds for a National Science Foundation Engineering Research Center."

Chapman, Kirby S., Gas Technology Institute, \$575,000, "Advanced Turbocharger Research Program."

NATIONAL INSTITUTE FOR LAND MANAGEMENT AND TRAINING

Biles, Bertram R., Kansas Army National Guard, \$66,800, "Kansas Army National Guard Web Server Project."

Biles, Bertram R., (see **Steichen, James M.**, National Institute for Land Management and Training).

Rathbone, Donald E., and **Riblett, Carl O.** (Architectural Engineering and Construction Science), Kansas State University Foundation, \$50,000, "LeRoy C. Paslay Singing Tower Project."

Steichen, James M., US Department of Defense, \$171,665, "Active/Inactive Range Inventory Support for the U. S. Army Environmental Center."

Steichen, James M., US Department of Defense, \$204,996, "Vehicle Impact Tracking Study."

Steichen, James M., US Department of Defense, \$663,001, "ITAM Program Support for TRADOC—Forts Bliss, Jackson, Rucker and Sill."

Steichen, James M., US Department of Defense, \$48,624, "ITAM Management Workshop— Training Requirement Integration (TRI) Module for U. S. Army Environmental Center."

Steichen, James M., and **Biles, Bertram R.**, US Department of Defense, \$82,967, "ITAM Management Workshop—Land Rehabilitation and Maintenance Module for U. S. Army Environmental Center."

COLLEGE OF HUMAN ECOLOGY

APPAREL, TEXTILES, AND INTERIOR DESIGN

McCullough, Elizabeth A., BHA Technologies, Inc., \$68,000, "Moisture Vapor Transmission Properties of Fabric/Film Laminates."

McCullough, Elizabeth A., US Department of Defense, \$1,826, "Evaluation of Superabsorbent Fibers in Cooling Garments."

McCullough, Elizabeth A., RefrigiWear, Inc., \$1,746, "Comparing the Insulating Properties of Transport Bags."

OFFICE OF THE DEAN OF THE COLLEGE OF HUMAN ECOLOGY

Bosch, Kathy, (see **Peters, Paula**, Extension Family and Consumer Sciences).

Chambers, Delores H., Kraft Foods North America, Inc., \$19,275, "Evaluation of Products."

Chambers, Delores H., Farmland Foods, Inc., \$20,224, "Evaluation of Meat Products."

McFarland, Marcia R., US Department of Agriculture, \$430,111, "CYFAR Supported Extension Staff Training."

Moxley, Virginia M., US Department of Education, \$559,360 (includes \$27,000 from Iowa State University, \$34,496 from Montana State University, \$25,316 from North Dakota State University, \$24,020 from Oklahoma State University, \$31,890 from South Dakota State University, \$27,391 from Texas Tech University, and \$27,378 from University of Nebraska), "National Model for Inter-Institutional Postbaccalaureate Distance Education Programs."

Moxley, Virginia M., US Department of Agriculture, \$5,000, "Inter-Institutional Masters Degree and Postbaccalaureate Certificate in Family Financial Planning: Extending the Reach and Improving Accessibility."

HOTEL, RESTAURANT, INSTITUTION MANAGEMENT AND DIETETICS

Barrett, Elizabeth B., US Department of Agriculture, \$7,000, "Food Safety Messages, Are They Appropriate for African Americans?"

Hsu, Cathy H. C., American Society of Travel Agents Foundation, Inc., \$4,584, "Travel Agent's Changing Role in the Distribution Channel—Kara Wolfe and Soo Kang."

Hsu, Cathy H. C., Lawrence Convention and Visitors Bureau, \$7,450, "Advertising Conversion Study."

Shanklin, Carol W., and **Flores, Sandra A.** (Communications), US Department of Agriculture, \$99,213, "Interdisciplinary Modules to Teach Waste/Residue Management in the Food Chain."

HUMAN NUTRITION

Chambers IV, Edgar, Abbott Laboratories, \$60,699, "Evaluation of Products."

Chambers IV, Edgar, Multisponsor, \$194,350, "Sensory Analysis Center Support."

Chambers IV, Edgar, and **Chambers, Delores H.**, Frito Lay, Inc., \$55,635, "Consumer Perception of Products Under Extended Use."

Chambers IV, Edgar, and **Chambers, Delores H.**, Peryam and Kroll Research Corporation, \$29,690, "Evaluation of Product Characteristics."

Chambers IV, Edgar, and **Chambers, Delores H.**, SSE Foods, Inc., \$34,541, "Sensory Analysis Assistance."

Chambers IV, Edgar, (see **Chambers, Delores H.**, Human Nutrition).

Chambers, Delores H., and **Chambers IV, Edgar**, Penford Products Company, \$7,800, "Sensory Information Assistance."

Chambers, Delores H., and **Chambers IV, Edgar**, Bush Brothers and Company, \$20,066, "Sensory Quality Evaluation."

Chambers, Delores H., (see **Bhadriraju, Subramanyam**, Grain Science and Industry).

Chambers, Delores H., (see **Chambers IV, Edgar**, Human Nutrition).

Higgins, Mary L., US Department of Agriculture, \$89,791, "Improving Food Stamp Program Use Among Rural Older Adults: A Partnership for Research and Results."

Koo, Sung I., (see **Hua, Duy H.**, Chemistry).

Medeiros, Denis M., US Department of Health and Human Services, \$162,357, "Cardiac Characteristics in Copper Deficiency."

Peters, Paula, Kansas Health Foundation, \$5,000, "Social Marketing—KNN."

Setser, Carole S., Hill's Pet Nutrition, Inc., \$1,825, "Sensory Evaluation of Pet Foods."

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Bailey, Gwen L., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

Bollman, Stephan R., and **Bailey, Gwen L.**, Kansas Child Care Training Opportunities, Inc., \$47,023, "Flint Hills Child Care Resource and Referral Project."

Bollman, Stephan R., and **Bailey, Gwen L.**, Kansas Child Care Training Opportunities, Inc., \$30,055, "Infant/Toddler Initiative."

Bollman, Stephan R., and **Bailey, Gwen L.**, United Methodist Health Ministry Fund, \$19,800, "Good for You! Nutrition Curriculum 'Integration of Oral Health'."

Bollman, Stephan R., and **Bailey, Gwen L.**, US Department of Education, \$18,572, "Special Care Curriculum and Training."

Bollman, Stephan R., and **Glasscock, Marlene K.**, US Department of Agriculture, \$199,494, "Expanding Access to USDA and Land-Grant University Child Care Information, Programs and Services."

Bollman, Stephan R., and **Glasscock, Marlene K.**, US Department of Agriculture, \$20,000, "Implementing the Cooperative Extension System Extension CARES Initiative."

Bollman, Stephan R., and **O'Conner, Nancy T.**, Kansas Department of Social and Rehabilitation Services, \$75,085, "Family Preservation Services."

Bollman, Stephan R., **Fees, Bronwyn S.**, **Nelson, Briana S.**, **O'Conner, Nancy T.**, and **White, Mark B.**, Kansas Department of Social and Rehabilitation Services, \$232,560, "Family Preservation Services Contract."

Bollman, Stephan R., (see **Griffin, Charles L.**, School of Family Studies and Human Services).

Bradshaw, Michael H., Kansas Health Foundation, \$99,896, "PATH Intergenerational Project."

Bradshaw, Michael H., US Department of Health and Human Services, \$2,200, "Immunize for Life Promotion and Education."

DeLuccie, Mary L., US Department of Health and Human Services, \$25,000, "Stone House Child Care Outdoor Learning Laboratory."

DeLuccie, Mary L., US Department of Health and Human Services, \$9,040, "Head Start Practica."

DeLuccie, Mary L., USD 383, Manhattan, \$17,472, "Early Childhood Lab."

Fees, Bronwyn S., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

Garcia, Robert, (see **Hoag, Linda A.**, School of Family Studies and Human Services).

Glasscock, Marlene K., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

Griffin, Charles L., and **Bollman, Stephan R.**, US Department of Health and Human Services, \$1,079,529, "SRS Organizational Development Training and Curriculum Development."

Griffin, Charles L., and **Bollman, Stephan R.**, US Department of Health and Human Services, \$50,000, "Kansas Farm and Ranch Family Assistance Program."

Griffin, Charles L., and **Bollman, Stephan R.**, US Department of Health and Human Services, \$15,000, "Support for Rural Mental Health Outreach in Kansas."

Hoag, Linda A., US Department of Health and Human Services, \$59,581, "Communicative Competence and the Use of Prestored Text."

Hoag, Linda A., and **Garcia, Robert**, Capper Foundation, \$42,791, "Capper—KSU Clinical Affiliation in Speech Pathology."

McFarland, Marcia R., US Department of Agriculture, \$256,528, "USDA/Army School-Age and Teen Project, Task I."

Nelson, Briana S., National Academy of Sciences, \$3,130, "National Research Council Young Investigator Program on Trauma and Reconciliation in Bosnia."

Nelson, Briana S., National Research Council, \$3,000, "Young Investigator Program on Trauma and Reconciliation in Bosnia."

Nelson, Briana S., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

O'Conner, Nancy T., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

Poresky, Robert H., US Department of Health and Human Services, \$96,610, "Alcohol and Drug Treatment Effectiveness Evaluation."

Poresky, Robert H., US Department of Transportation, \$94,466, "Kansas Safety Belt Direct Observation CATI Survey."

Smit, Ann B., USD 379, Clay Center, \$8,090, "Speech and Language Services."

Walker, Doris K., Kansas Health Foundation, \$1,140, "Health Promotion for Older Kansans."

Webb, Farrell J., Kansas Department of Health and Environment, \$30,194, "K-State Cares: Rural Health Issues in Kansas."

White, Mark B., (see **Bollman, Stephan R.**, School of Family Studies and Human Services).

COLLEGE OF TECHNOLOGY AND AVIATION

SALINA ARTS, SCIENCE AND BUSINESS

Thompson, Stephen, Kansas Water Office, \$38,470, "GPS Base Station Operation and Technical Support."

Thompson, Stephen, Saline County, \$15,000, "Recover and Determine Geodetic Coordinates for Section Corners in Saline County."

SALINA LIBRARY

Swain, Michelle R., Kansas Library Network, \$1,500, "Hands-On Science/Science Fairs."

COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Blecha, Frank, US Department of Health and Human Services, \$49,961, "Short-Term Training Students in Health Professional Schools."

Erickson, Howard H., CNS, Inc., \$111,027, "Evaluation of a Nasal Dilator in Horses."

Erickson, Howard H., Sera, Inc., \$51,086, "Preliminary Treadmill Exercise Study to Determine the Efficacy of Seramune Equine IgG as a Prevention and Treatment for EIPH in Athletic Horses."

Freeman, Lisa C., US Department of Health and Human Services, \$187,378, "LKS and LKUR in Granulosa Cells."

Kenney, Michael J., American Heart Association, Heartland Affiliate, \$38,970, "Heart Failure Alters Sympathetic Neural Strategies to Heat Stress."

Kenney, Michael J., US Department of Health and Human Services, \$7,629, "Effect of Spinal Loading on Sympathetic Nerve Regulation."

Kenney, Michael J., US Department of Health and Human Services, \$218,250, "Sympathetic-Immune Interface: Central Sites and Function."

McAllister, Richard M., US Department of Health and Human Services, \$97,383, "Exercise: Muscle Blood Flow, Vascular Adaptations."

McDonough, Paul J., (see **Poole, David C.**, Anatomy and Physiology).

Mitchell, Kathy E., (see **Tomich, John M.**, Biochemistry).

Musch, Timothy I., and **Poole, David C.**, American Heart Association, Heartland Affiliate, \$40,000, "Kinetics of Muscle Oxygen Exchange in Chronic Heart Failure."

Musch, Timothy I., and **Poole, David C.**, US Department of Health and Human Services, \$218,250, "Aging, Chronic Disease and Skeletal Muscle Perfusion."

Poole, David C., and **McDonough, Paul J.**, US Department of Health and Human Services, \$33,260, "Muscle Fiber Type, Oxidative Capacity and Oxygen Exchange."

Poole, David C., (see **Musch, Timothy I.**, Anatomy and Physiology).

Ross, Chris R., American Heart Association, Heartland Affiliate, \$33,998, "Contribution of the NADPH Oxidase to Reperfusion Injury."

Schultz, Bruce D., (see **Tomich, John M.**, Biochemistry).

Wangemann, A. Philine, US Department of Health and Human Services, \$251,801, "Cytosolic Regulation of Inner Ear Ion Transport."

Wangemann, A. Philine, US Department of Health and Human Services, \$257,466, "Neurogenic Regulation of Cochlear Blood Flow."

Weiss, Mark L., US Department of Health and Human Services, \$25,000, "Neural Circuitry of the Kidney."

Weiss, Mark L., (see **Chowdhury, Shafiqul I.**, Diagnostic Medicine/Pathobiology).

CLINICAL SCIENCES

Carpenter, James W., City of Manhattan, Kansas, \$10,000, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

Chenoweth, Peter J., (see **Davis, Duane L.**, Animal Sciences and Industry).

Grauer, Gregory F., Ross University, \$77,456, "Clinical Training for Ross University School of Health Sciences."

Grauer, Gregory F., (see **Moore, Lisa E.**, Clinical Sciences).

Harkin, Kenneth R., Fort Dodge Animal Health, \$29,231, "Prevalence of Urinary Shedding of Leptospire in Dogs: Assessment of the Public Health Risk of Occult Leptospirosis in the Dog."

Harkin, Kenneth R., and **Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), American Animal Hospital Association Foundation, \$14,929, "Evaluation of Azathioprine Therapy for Perianal Fistula in German Shepherd Dogs."

Hoskinson, James J., (see **Rush, Bonnie R.**, Clinical Sciences).

Lillich, James D., Kansas Racing and Gaming Commission, \$5,920, "Use of Two-Dimensional Electrophoreses (proteomics) to Identify Neutral Metalloproteinases in Synovial Fluid from Normal and Diseased Equine Digital Tendon Sheaths."

Moore, Lisa E., and **Grauer, Gregory F.**, IAMS Company, \$26,904, "Comparison of Two Dietary Approaches to Managing Canine Chronic Renal Failure."

Olsen, Dennis E., Midwest Research Institute, \$5,394, "Pilot Study to Validate the Use of Isolated Intestinal Pouches of Beagle Dogs to Evaluate the Irritation Potential of Orally Administered Substances."

Radlinsky, Mary Ann G., Morris Animal Foundation, \$9,300, "Use of the On-Q Pain Management System in Dogs Undergoing Total Ear Canal Ablation."

Rush, Bonnie R., 3M Corporation, \$22,327, "Multi-Centered Clinical Trial of Beclomethasone Dipropionate in Horses with Recurrent Airway Obstruction."

Rush, Bonnie R., and **Hoskinson, James J.**, Boehringer Ingelheim, \$35,400, "Efficacy and Efficiency of the Equine Aerosol Delivery Device and the Equine AeroMask."

Sanderson, Michael W., (see **Sargeant, Janice M.**, Food Animal Health and Management Center).

OFFICE OF THE DEAN OF THE COLLEGE OF VETERINARY MEDICINE

Willard, Gayle K., Kansas Library Network, \$5,850, "Animals in Society."

Willard, Gayle K., Kansas Library Network, \$6,950, "Kansas Library Network ILDP Animals in Society."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

Chengappa, M. M., (see **Nagaraja, Tiruvor G.**, Diagnostic Medicine/Pathobiology).

Chowdhury, Shafiqul I., **Mosier, Derek A.**, and **Weiss, Mark L.** (Anatomy and Physiology), US Department of Agriculture, \$285,000, "Role of Glycoproteins gE and gI in BHV-1 and BHV-5 Differential Neuropathogenesis."

Dryden, Michael W., Bayer Corporation, \$71,114, "Imidacloprid Flea Susceptibility Monitoring Project."

Fenwick, Bradley W., Kansas Racing and Gaming Commission, \$61,712, "Why Do Current Vaccines Fail to Reliably Prevent Kennel Cough in Racing Greyhounds?—Development and Testing of a Reliable Kennel Cough Vaccine."

Fenwick, Bradley W., Kansas Racing and Gaming Commission, \$60,000, "Enhancing Greyhound Immune Function and Reproductive Efficiency: Breeding for Optimal Histocompatibility Genotypes (A Molecular Approach for Breed Improvement)."

Ganta, Roman Reddy, (see **Ridley, Robert K.**, Diagnostic Medicine/Pathobiology).

Gordon, Chandra R., (see **Moeller, Larry B.**, Student Health).

Kapil, Sanjay, Kansas Racing and Gaming Commission, \$13,400, "Development of an Effective Vaccine for Canine Rotavirus."

Kapil, Sanjay, US Department of Agriculture, \$27,500, "Pseudorabies Laboratory Testing."

Mosier, Derek A., (see **Chowdhury, Shafiqul I.**, Diagnostic Medicine/Pathobiology).

Nagaraja, Tiruvoor G., Chengappa, M. M., and Stewart, George C., Schering Plough Animal Health, \$28,857, "Evaluation of the Immunogenicity and Protective Effects of Recombinant Leukotoxin Proteins of *Fusobacterium Necrophorum* in Mice."

Nagaraja, Tiruvoor G., (see **Sargeant, Janice M.**, Food Animal Health and Management Center).

Ridley, Robert K., and **Ganta, Roman Reddy**, Kansas Racing and Gaming Commission, \$6,974, "Molecular Diagnostic Test for Ehrlichiosis in Greyhounds."

Stewart, George C., US Department of Health and Human Services, \$129,766, "Cell Division Gene Products of *Bacillus Subtilis*."

Stewart, George C., US Department of Health and Human Services, \$235,645, "Control of Enterotoxin Gene Expression *S. aureus*."

Stewart, George C., (see **Nagaraja, Tiruvoor G.**, Diagnostic Medicine/Pathobiology).

Wilkerson, Melinda, (see **Harkin, Kenneth R.**, Clinical Sciences).

Wyatt, Carol R., US Department of Health and Human Services, \$76,850, "Mucosal Immune Responses during Cryptosporidiosis."

FOOD ANIMAL HEALTH AND MANAGEMENT CENTER

Galland, John C., (see **Sargeant, Janice M.**, Food Animal Health and Management Center).

Oberst, Richard D., (see **Sargeant, Janice M.**, Food Animal Health and Management Center).

Sargeant, Janice M., Galland, John C., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and **Oberst, Richard D.**, US Department of Agriculture, \$198,326, "Ecology of E-coli O157:H7 in Beef Cow-Calf Operations from Ranch through Feedlot."

Sargeant, Janice M., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), **Oberst, Richard D.**, and **Sanderson, Michael W.** (Clinical Sciences), US Department of Agriculture, \$197,871, "Ecology of E-coli O157:H7 in Beef Cow-Calf Operations from Ranch through Feedlot."

Sargeant, Janice M., Sanderson, Michael W. (Clinical Sciences), and **Zhang, Ping** (Agricultural Economics), US Department of Agriculture, \$231,483, "Epidemiological Aspects of Combining E. coli O157:H7 Control Programs and Feedlot Performance."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURAL ECONOMICS

Boland, Michael A., US Department of Agriculture, \$19,215, "Rural Community Based Case Test to Evaluate the Efficacy of the USDA Quality System Certification Program (QSCP) for Small Livestock and Meat Marketing Programs."

Barton, David G., Boland, Michael A., and Coltrain, David E., US Department of Agriculture, \$319,600 (includes \$129,600 from the Kansas Department of Commerce and Housing), "Kansas Cooperative Development Center Education and Assistance Program."

Barton, David G., (see **Boland, Michael A.**, Agricultural Economics).

AGRONOMY

Eberle, William M., Kansas Department of Health and Environment, \$40,000, "Research/Demonstration/Education Compost Facility."

Fjell, Dale L., Kansas Grain Sorghum Commission, \$9,000, "Grain Sorghum Production in Kansas: Extension and Applied Research."

Fjell, Dale L., (see **Gordon, Walter B.**, Agronomy).

Peterson, Dallas E., (see **Dieleman, Johanna A.**, Agronomy).

Regehr, David L., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Shroyer, James P., Kansas Wheat Commission, \$53,130, "Wheat Research/Extension Assistant."

Shroyer, James P., Bowden, Robert L. (Plant Pathology), **Duncan, Stewart R.** (South Central Area Office), **Staggenborg, Scott A.** (Northeast Area Office), and **Thompson, Curtis R.** (Southwest Area Office), Finnup Foundation, \$4,500, "Wheat Research/Extension Assistant."

Shroyer, James P., (see **Herrman, Timothy J.**, Grain Science and Industry).

ANIMAL SCIENCES AND INDUSTRY

Aramouni, Fadi M., and Gast, Karen L. (Extension Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$20,000, "Improving Good Agricultural Practices (GAPs) for Small Fruit and Vegetable Growers and Processors in Kansas."

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

Boyle, Elizabeth, (see **Kastner, Curtis L.**, Animal Sciences and Industry).

Lee, Charles D., US Department of Agriculture, \$1,500, "North Central Regional Aquaculture Center Extension Project."

Lee, Charles D., Kansas Department of Wildlife and Parks, \$4,795, "Extension Education Position."

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

APPAREL, TEXTILES, AND INTERIOR DESIGN

Bode, Marilyn, Bradshaw, Michael H. (Extension School of Family Studies and Human Services), and **Proctor, Sandra B.** (Extension Human Nutrition), US Department of Agriculture, \$3,000, "Healthy Homes-Kansas."

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Harner III, Joseph P., US Department of Agriculture, \$3,000, "Effective Utilization of Dairy Manure Nutrients."

Powell, G. Morgan, Buchholz, Daryl D. (Director for Cooperative Extension), and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$10,543, "Kansas Environmental Leadership Program (KELP)."

Rogers, Danny H., (see **Clark, Gary A.**, Biological and Agricultural Engineering).

Taylor, Randal K., (see **Schlegel, Alan J.**, Southwest Research Extension Center).

COMMUNICATIONS

Wootton, Richard D., US Department of Agriculture, \$25,142, "Penalty Mail Extension Mailing."

COMMUNITY HEALTH

Dzewaltowski, David A., Kansas Department of Health and Environment, \$100,000, "Agreement between the Kansas Department of Health and Environment and Kansas State University, Cooperative Extension Service."

Dzewaltowski, David A., Kansas Department of Health and Environment, \$27,209, "Kansas Lean School Health Project."

Dzewaltowski, David A., and **Estabrooks, Paul A.**, Kansas Health Foundation, \$99,694, "Proposal for Project Evaluation of Community Health Intervention Process."

Estabrooks, Paul A., (see **Dzewaltowski, David A.**, Extension Office of Community Health).

Johannes, Elaine M., US Department of Agriculture, \$250,000, "Opportunities for Prevention Education and Networking in Kansas."

Johannes, Elaine M., Ogden Youth Center, \$400, "Cooperative Agreement between the Ogden Youth Center and Cooperative Extension Service, Kansas State University."

Ponte, Christine M., Kansas Department of Health and Environment, \$85,625, "Cooperative Agreement Between Kansas Department of Health and Environment and Cooperative Extension Service, Kansas State University."

Ponte, Christine M., US Department of Agriculture, \$8,500, "Cooperative Agreement Between Kansas State Board of Education and Kansas State University."

Terry, Roger V., US Department of Agriculture, \$22,500, "Healthy Places, Healthy Communities."

Terry, Roger V., US Department of Agriculture, \$7,624, "CYFERNet Technology."

DEAN OF HUMAN ECOLOGY

Peters, Paula, United Methodist Health Ministry Fund, \$10,000, "Food Stamp Awareness and Access Campaign."

DIRECTOR OF COOPERATIVE EXTENSION

Buchholz, Daryl D., (see **Powell, G. Morgan**, Extension Biological and Agricultural Engineering).

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, \$59,846, "Kansas Agriculture and Rural Leadership, Inc."

ENTOMOLOGY

Cress, Donald C., US Department of Agriculture, \$38,932, "Pesticide Applicator Training Program."

Cress, Donald C., Bhadriraju, Subramanyam (Grain Science and Industry), and **Ramaswamy, Sonny B.**, US Department of Agriculture, \$35,257, "Kansas Pesticide Usage Survey and Crop Profile Development."

Higgins, Randall A., Buschman, Larry L., Ramaswamy, Sonny B., Schapaugh, William T. (Agronomy), and **Sloderbeck, Phillip E.** (Southwest Area Office), Kansas Soybean Commission, \$36,600, "Investigations on the Soybean Stem Borer in Kansas."

Higgins, Randall A., (see **Trick, Harold N.**, Plant Pathology).

EXTENSION ENERGY

Meyer, Gene M., US Department of Energy, \$235, "Achieve Compliance with the Model Energy Code (1993) for Residential Buildings and ASHRAE/IES Standard 1989-90. 1 for Commercial Buildings as Adopted by the State of Kansas."

EXTENSION ENGINEERING

Davis, Sherry J., (see **Green, Ryan M.**, Kansas Industrial Extension Services).

Harner III, Joseph P., US Environmental Protection Agency, \$150,000, "Watershed Dairy Environmental Cooperative."

Harner III, Joseph P., (see **Koelliker, James K.**, Extension Engineering).

Hayter, Richard B., (see **Erickson, Larry E.**, Center for Hazardous Substance Research).

Koelliker, James K., and **Harner III, Joseph P.** (Extension Engineering), State of Nebraska, \$7,000, "Cooperative Extension Program in Crop Drying and Post-Harvest Handling."

FAMILY AND CONSUMER SCIENCES

Peters, Paula, Bosch, Kathy (Dean of Human Ecology), **Fitzgerald, Karen D.** (Extension Human Nutrition), and **Hudson, Karen S.** (Dean of Human Ecology), US Department of Agriculture, \$2,985,129 (includes \$638,668 from Various Kansas Counties), "Kansas Food Stamps Nutrition Education Plan."

GRAIN SCIENCE AND INDUSTRY

Herrman, Timothy J., and **Shroyer, James P.** (Extension Agronomy), Kansas Wheat Commission, \$4,000, "White Wheat Commercialization."

HORTICULTURE, FORESTRY AND RECREATION RESOURCES

Gast, Karen L., (see **Aramouni, Fadi M.**, Animal Sciences and Industry).

HUMAN NUTRITION

Fitzgerald, Karen D., (see **Peters, Paula**, Extension Family and Consumer Sciences).

Hudson, Karen S., (see **Peters, Paula**, Extension Family and Consumer Sciences).

Proctor, Sandra B., (see **Bode, Marilyn**, Apparel, Textiles, and Interior Design).

KANSAS FOREST SERVICE

Aslin, Raymond G., US Department of Agriculture, \$1,291,462 (includes \$297,265 from Cooperative Fire State Assistance, and \$111,580 from Cooperative Fire Volunteer Assistance), "Consolidated Grants Program 2000."

Aslin, Raymond G., US Department of Agriculture, \$1,025, "Forestry Incentives Program."

Aslin, Raymond G., US Department of Agriculture, \$2,160,020 (includes \$778,390 from Various Local and Rural Fire Departments), "Consolidated Grants Program 2001."

Aslin, Raymond G., US Department of Agriculture, \$88,777, "Kansas Forest Inventory."

KANSAS WATER RESOURCE RESEARCH INSTITUTE

Hargrove, William L., Kansas Water Office, \$16,000, "Implementing TMDLs in Kansas: Abatement of Nonpoint Sources for Fecal Coliform Bacteria."

NORTHEAST AREA OFFICE

Lindquist, James L., and **Nolting, Emily E.**, J. Frank Schmidt Family Charitable Foundation, \$5,000 (includes \$5,000 from Kansas Nursery Landscape Association), "Pride of Kansas Plant of the Year."

Lubben, Bradley D., Farm Foundation, \$15,977, "Agricultural, Food, and Public Policy Preference Survey."

Nolting, Emily E., (see **Lindquist, James L.**, Northeast Area Office).

Staggenborg, Scott A., (see **Shroyer, James P.**, Extension Agronomy).

Staggenborg, Scott A., (see **Gordon, Walter B.**, Agronomy).

NORTHWEST AREA OFFICE

O'Brien, Daniel M., (see **Stahlman, Phillip W.**, Agricultural Research Center-Hays).

Stockton, Roger D., (see **Stahlman, Phillip W.**, Agricultural Research Center-Hays).

PLANT PATHOLOGY

Bowden, Robert L., (see **Shroyer, James P.**, Extension Agronomy).

Buchholz, Daryl D., and **Jardine, Douglas J.**, US Department of Agriculture, \$179,902, "Integrated Pest Management (Formula Funds)."

Jardine, Douglas J., (see **Buchholz, Daryl D.**, Plant Pathology).

PRODUCTION MANAGEMENT AND NATURAL RESOURCE DEVELOPMENT

Buchholz, Daryl D., US Department of Agriculture, \$404, "Memorandum of Understanding between Kansas Agricultural Mediation Services and Kansas Natural Resources Conservation Service."

Buchholz, Daryl D., Kansas Farm Service Agency, \$2,278, "Memorandum of Understanding between Kansas Agricultural Mediation Services and Kansas Farm Service Agency."

Buchholz, Daryl D., US Department of Agriculture, \$42,019, "Renewable Resources Extension Act Program."

Buchholz, Daryl D., and **Johnson, Marc A.** (Dean of Agriculture and Director of AES), US Department of Agriculture, \$469,166, "Kansas Agricultural Mediation Service."

Buchholz, Daryl D., and **Beckman, Jana J.** (Kansas Center for Agriculture Resources and the Environment), US Department of Agriculture, \$19,000, "Kansas Professional Development Program."

Buchholz, Daryl D., (see **Powell, G. Morgan**, Extension Biological and Agricultural Engineering).

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Bradshaw, Michael H., (see **Bode, Marilyn**, Apparel, Textiles, and Interior Design).

SOUTH CENTRAL AREA OFFICE

Clarkson-Frisbie, Jean, (see **McNutt, J. D.**, South Central Area Office).

Duncan, Stewart R., (see **Shroyer, James P.**, Extension Agronomy).

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

McNutt, J. D., and **Clarkson-Frisbie, Jean**, US Department of Agriculture, \$5,000, "Healthy People Healthy Communities and National Network for Health-Immunization Work Group."

SOUTHEAST AREA OFFICE

Kilgore, Gary L., and **Fogleman, Sarah L.**, Kansas Corn Commission, \$3,382, "Short Season Corn Education Program in Southeast Kansas."

Kilgore, Gary L., and **Fogleman, Sarah L.**, Kansas Soybean Commission, \$11,180, "Soybean Extension Educational Program in Southeast Kansas."

Robbins, Benny S., and **Kilgore, Gary L.**, Multisponsor, \$1,025, "Double-Crop Soybean Performance Tests—Extension Area Offices."

Fogleman, Sarah L., (see **Kilgore, Gary L.**, Southeast Area Office).

Kilgore, Gary L., (see **Gordon, Walter B.**, Agronomy).

Kilgore, Gary L., (see **Hargrove, William L.**, Kansas Center for Agriculture Resources and the Environment).

Kilgore, Gary L., (see **Robbins, Benny S.**, Southeast Area Office).

SOUTHWEST AREA OFFICE

Alam, Mahbub U., US Environmental Protection Agency, \$28,000, "Demonstration of Best Management Practices to Avoid Groundwater Pollution from Application of Livestock Manure to Cropland."

Alam, Mahbub U., **Dumler, Troy**, **Rogers, Danny H.** (Extension Biological and Agricultural Engineering), and **Trooien, Todd P.** (Southwest Research Extension Center), Kansas Corn Commission, \$25,546, "Irrigation Scheduling Demonstration of Efficient Water Use by Corn in Western Kansas."

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

Alam, Mahbub U., (see **Willson, Thomas C.**, Southwest Research Extension Center).

Dumler, Troy, (see **Alam, Mahbub U.**, Southwest Area Office).

Dumler, Troy, (see **Schlegel, Alan J.**, Southwest Research Extension Center).

Dumler, Troy, (see **Willson, Thomas C.**, Southwest Research Extension Center).

Sloderbeck, Phillip E., (see **Buschman, Larry L.**, Entomology).

Sloderbeck, Phillip E., (see **Higgins, Randall A.**, Extension Entomology).

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

Thompson, Curtis R., Multisponsor, \$15,000, "Chemical Evaluation."

Thompson, Curtis R., (see **Schlegel, Alan J.**, Southwest Research Extension Center).

Thompson, Curtis R., (see **Shroyer, James P.**, Extension Agronomy).

OFFICE OF THE PRESIDENT

AUDITORIUM PERFORMANCES

Martin, Richard P., Mid-America Arts Alliance, \$4,013, "Bordeaux Ballet."

Martin, Richard P., Mid-America Arts Alliance, \$5,000, "Turandot."

Martin, Richard P., Mid-America Arts Alliance, \$5,000, "Russian National Orchestra."

Martin, Richard P., National Foundation on the Arts and the Humanities, \$1,750, "Mark Morris Dance Group."

Martin, Richard P., National Foundation on the Arts and the Humanities, \$11,145, "McCain Performance Series—FY 2001."

BEACH ART MUSEUM

Render, Lorne E., National Foundation on the Arts and the Humanities, \$11,559, "Beach Museum of Art Operational Support, 2001."

Render, Lorne E., and **Schlageck, Kathrine W.**, National Foundation on the Arts and the Humanities, \$11,673 (includes \$2,673 from various private contributions), "Prairie Through New Eyes."

Schlageck, Kathrine W., (see **Render, Lorne E.**, Beach Art Museum).

OFFICE OF THE PROVOST

INTERNATIONAL PROGRAMS

Michie, Barry H., and **Wood, Mary**, International Student Exchange Program, \$79,800, "ISEP—English Language Program."

Richter, William L., Peace Corps, \$1,000, "Peace Corps Recruitment."

Wood, Mary, (see **Michie, Barry H.**, International Programs).

KANSAS CENTER FOR RURAL INITIATIVES

Gould, Carol A., US Department of Commerce, \$58,768, "University Center Program—Kansas Center for Community Economic Development."

Gould, Carol A., Corporation for National Service, \$358, "New Linkages for Service Learning Through the Kansas State University Community Service Program."

Gould, Carol A., Corporation for Enterprise Development, \$10,000, "Kansas Microenterprise Opportunity Network."

Gould, Carol A., Corporation for National Service, \$411,016 (includes \$96,016 from Western Kansas Community Service-Learning Consortium, and \$15,000 from various other contributors), "Kansas Service-Learning Consortium."

Gould, Carol A., Corporation for Enterprise Development, \$5,000, "Kansas Microenterprise Development."

LIBRARY

Alger, Jeff A., (see **Scott, V. Ann**, Library).

Elder, Nelda J., and **Watts, Tim J.**, Kansas Library Network, \$4,100, "Small Press Diversity Classroom Materials."

Farmer, Diana M., National Foundation on the Arts and the Humanities, \$163,107, "NEH Preservation."

Scott, V. Ann, Kansas Library Network, \$3,275, "Landscape Gardening."

Scott, V. Ann, and **Alger, Jeff A.**, Kansas Library Network, \$3,650, "Architectural Restoration and Historic Preservation."

Watts, Tim J., Kansas Library Network, \$650, "Films on the National Film Registry."

Watts, Tim J., (see **Elder, Nelda J.**, Library).

OFFICE OF THE PROVOST

Dyer, Ruth A., American Association for Higher Education, \$7,000, "New Pathways II Post-Tenure Review Mini-Grants."

Dyer, Ruth A., (see **Montelone, Beth A.**, Biology).

PLANNING AND ANALYSIS

Downey, Ronald G., US Department of Defense, \$8,625, "Command Climate Survey 2000."

VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

KSU POLICE DEPARTMENT

Grice, Ronnie D., US Department of Justice, \$1,800, "2001 Local Law Enforcement Block Grant."

Grice, Ronnie D., and **Johnson, David W.**, US Department of Justice, \$15,000, "An Ounce of Prevention."

Johnson, David W., (see **Grice, Ronnie D.**, KSU Police Department).

VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

EDUCATIONAL AND PERSONAL DEVELOPMENT

Arck, William, City of Manhattan, KS., \$17,500, "Youth Oriented Alcohol Abuse Prevention Program."

Greene, Kathleen V., US Department of Education, \$203,637, "Educational Supportive Services."

Greene, Kathleen V., US Department of Education, \$224,827, "Ronald McNair Academic Achievement Program."

Greene, Kathleen V., US Department of Education, \$407,684, "Student Support Services." (2 awards)

Lynch, Michael L., Kauffman Foundation, \$75,000, "Beyond the Boundaries: A Summer Enrichment Program."

Lynch, Michael L., and **Lynch, Judith A.**, US Department of Agriculture, \$4,789, "Kansas State University—Beyond the Boundaries Summer Enrichment Academy."

Lynch, Judith A., (see **Lynch, Michael L.**, Educational and Personal Development).

McGowan, Reginland, US Department of Education, \$196,846, "Kansas State University/Gear Up."

McGowan, Reginland, US Department of Education, \$392,409, "Upward Bound Program."

McGowan, Reginland, US Department of Education, \$246,335, "Kansas State University Upward Bound Math and Science Program."

McGowan, Reginland, US Department of Education, \$539,548 (includes \$5,000 from Flint Hills Job Corps, \$2,500 from Geary County Unified Schools, \$2,500 from Junction City Middle School, \$65,000 from Kansas Hauge Alternative Education Center, \$35,000 from Kansas Advisory Committee on Hispanic Affairs \$10,595 from Kansas Department of Social and Rehabilitation Services, \$11,200 from KSU Golf Course Management and Research Foundation \$788 from Office of the Mayor of Junction City, Kansas, and \$8,400 from Youth Friends of Kansas), "Kansas State University Gear Up Program #2."

McGowan, Reginland, US Department of Agriculture, \$15,939, "Kansas State University Upward Bound Math and Science Program Summer Food Service Program."

McGowan, Reginland, US Department of Agriculture, \$22,487, "Kansas State University Upward Bound Program Summer Food Service Program."

OFFICE OF DIVERSITY AND DUAL CAREER DEVELOPMENT

Jones, Carla E., US Department of Health and Human Services, \$6,500, "Health Careers Pathways Satellite Program."

STUDENT HEALTH

Moeller, Larry B., and **Gordon, Chandra R.** (Diagnostic Medicine/Pathobiology), Aventis Pasteur, Inc., \$92,477, "Trial of the Safety and Immunogenicity of Chromatographically Purified Rabies Vaccine Prepared Using the 2000-Liter Process versus Human Diploid Cell Vaccine in the Pre-Exposure Schedule."

VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY

COMPUTING AND NETWORK SERVICES

Townsend, Harvard C., (see **Unger, Elizabeth A.**, Vice Provost for Academic Services and Technology).

DEAN OF CONTINUING EDUCATION

Caffey, John R., (see **Unger, Elizabeth A.**, Vice Provost for Academic Services and Technology).

REGENTS' EDUCATIONAL COMMUNICATIONS CENTER

Chastain, Melvin L., US Department of Education, \$120,701 (includes \$24,000 from Colby Community College, \$28,000 from Dodge City Community College, \$28,000 from Garden City Community College, and \$31,000 from Seward County Community College), "Plains Academy Co-Op."

Chastain, Melvin L., US Department of Education, \$54,000, "Beyond the Administrative Core: Creating Web-Based Student Services for Online Learners."

VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY

Unger, Elizabeth A., **Caffey, John R.** (Administration), and **Townsend, Harvard C.** (Computing and Network Services), US Department of Education, \$691,000, "Great Plains Network Connectivity for Kansas State University."

VICE PROVOST FOR RESEARCH AND DEAN OF THE GRADUATE SCHOOL

BIOTECHNOLOGY CORE LABORATORY

Tomich, John M., Multisponsor, \$45,272, "Biotechnology Laboratory Support."

ELECTRONICS DESIGN LABORATORY

Sobering, Timothy J., Multisponsor, \$169,005, "Electronics Design Laboratory Support."

Sobering, Timothy J., and **Meier, Russell D.** (Electrical and Computer Engineering), US Department of Energy, \$82,433, "ICCD Detector Readout Development."

OFFICE OF THE VICE PROVOST AND DEAN

Guikema, James A., **Erickson, Larry E.** (Center for Hazardous Substance Research), and **Jaax, Gerald P.** (Office of the Vice Provost for Research), US Department of Defense, \$1,650,000, "Establishment of the Nonlethal Environmental Evaluation and Remediation Center."

Trewyn, R. W., Kansas Board of Regents, \$28,000, "Kansas Minority Graduate Fellowship Awards."

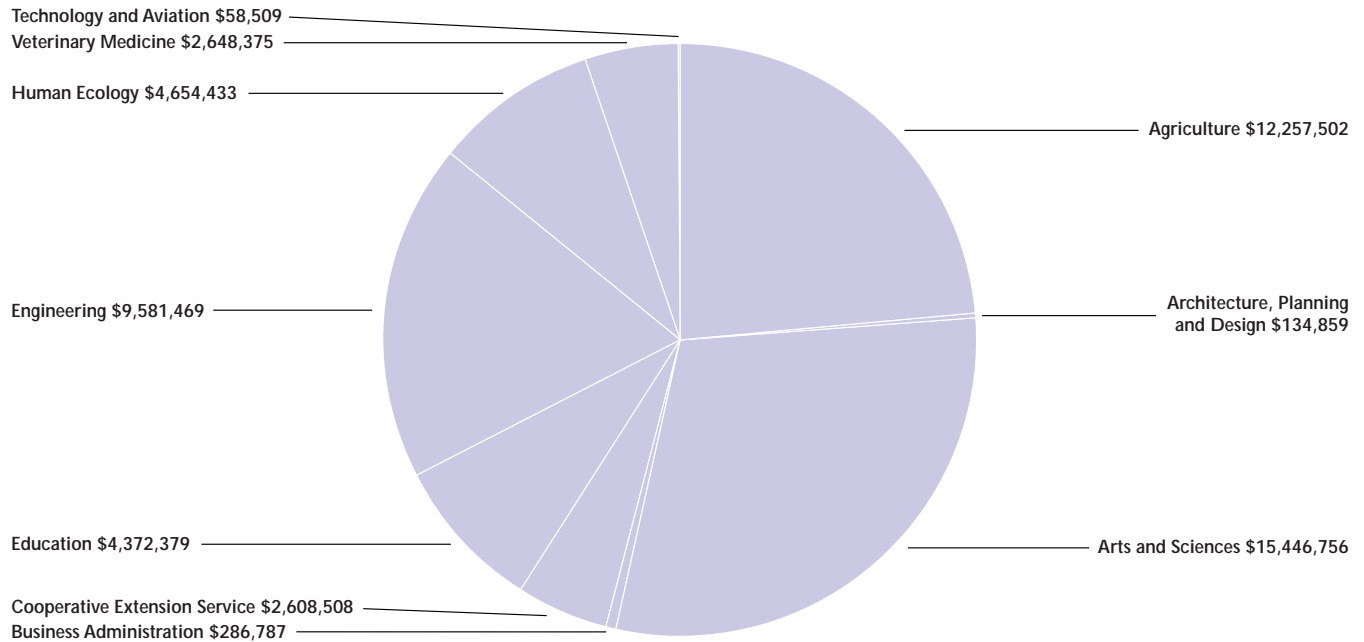
Knous, Ted R., Kansas State University Research Foundation, \$128,858, "KSU Research Foundation Staff Compensation."

Trewyn, R. W., National Science Foundation, \$2,000, "Science, Engineering, Math (SEM) Institutional Data Base: Kansas State University."

SECTION 2: EXPENDITURES

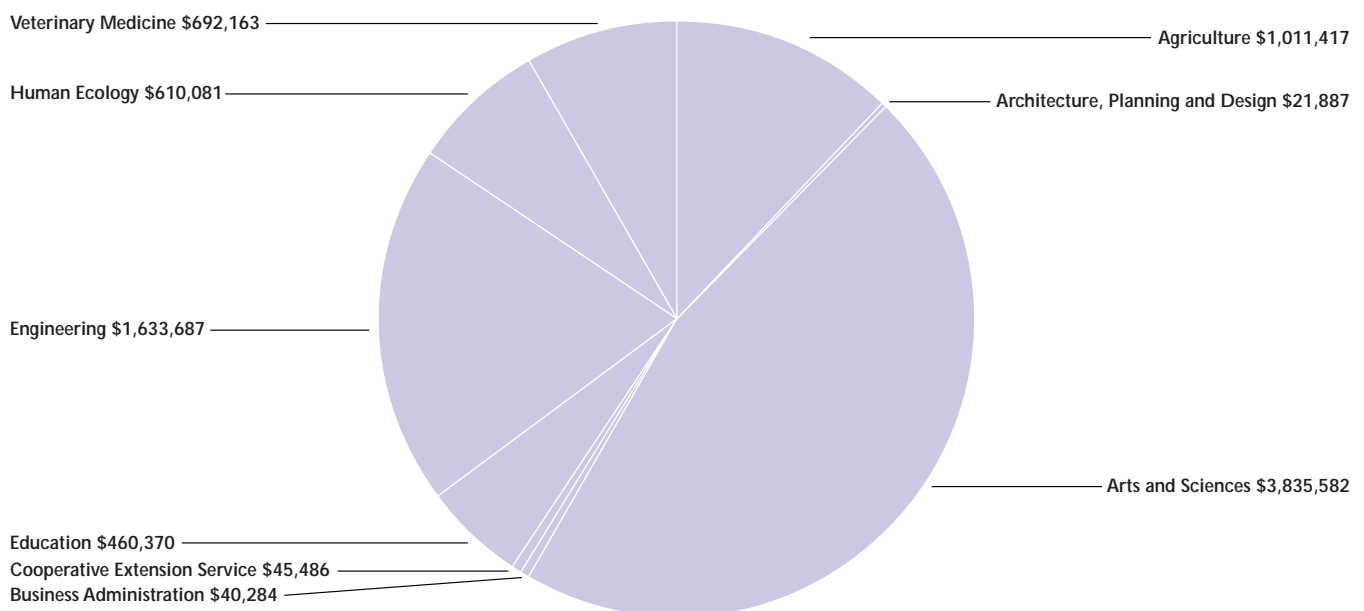
DIRECT COST EXPENDITURES BY COLLEGE AND EXTENSION*

Fiscal Year 2001



FACILITIES AND ADMINISTRATIVE COST RECOVERY BY COLLEGE AND EXTENSION*

Fiscal Year 2001



***Note:** Data provided by the KSU Controller's Office, Sponsored Projects Accounting

EXPENDITURES FOR SPONSORED EXTRAMURAL FUNDING BY COLLEGE AND EXTENSION DEPARTMENT*

Fiscal Year 2001

| | DIRECT COSTS | FACILITIES AND ADMINISTRATIVE COSTS | TOTAL |
|---|------------------------|--|------------------------|
| COLLEGE OF AGRICULTURE | | | |
| Dean of Agriculture and Director of AES | \$117,243.94 | \$0.00 | \$117,243.94 |
| Agricultural Economics | \$674,416.66 | \$78,455.81 | \$752,872.47 |
| Agronomy | \$2,653,154.45 | \$143,700.45 | \$2,796,854.90 |
| Animal Sciences and Industry | \$1,511,772.32 | \$71,025.30 | \$1,582,797.62 |
| Communications | \$128,108.63 | \$0.00 | \$128,108.63 |
| Entomology | \$1,157,942.75 | \$92,871.01 | \$1,250,813.76 |
| National Wheat Research Center | \$5,766.50 | \$0.08 | \$5,766.58 |
| Grain Science and Technology | \$1,588,429.68 | \$172,815.88 | \$1,761,245.56 |
| Horticulture, Forestry and Recreation Resources | \$337,273.82 | \$21,502.09 | \$358,775.91 |
| International Agricultural Programs | \$31,259.79 | \$0.00 | \$31,259.79 |
| Plant Pathology | \$2,697,053.83 | \$335,354.98 | \$3,032,408.81 |
| Food and Feed Grains Institute | \$222,684.64 | \$63,641.53 | \$286,326.17 |
| Kansas Center for Ag. Resource & Env | \$619,104.46 | \$27,620.58 | \$646,725.04 |
| Agricultural Experiment Station | \$67,552.34 | \$391.02 | \$67,943.36 |
| Northwest Research Extension Center | \$92,305.16 | \$0.00 | \$92,305.16 |
| Agricultural Research Center-Hays | \$223,585.94 | \$4,038.54 | \$227,624.48 |
| Southwest Research Extension Center | \$66,787.29 | \$0.00 | \$66,787.29 |
| Southeast Agricultural Research Center | \$63,060.30 | \$0.00 | \$63,060.30 |
| Total—College of Agriculture | \$12,257,502.50 | \$1,011,417.27 | \$13,268,919.77 |
| COLLEGE OF ARCHITECTURE AND DESIGN | | | |
| Dean of Architecture, Planning and Design | \$46,246.70 | \$21,039.52 | \$67,286.22 |
| Architecture | \$0.00 | \$756.54 | \$756.54 |
| Interior Architecture | \$1,937.60 | \$7.37 | \$1,944.97 |
| Landscape Architecture/Regional & Community Plan. | \$86,674.59 | \$84.06 | \$86,758.65 |
| Total—College of Architecture & Design | \$134,858.89 | \$21,887.49 | \$156,746.38 |
| COLLEGE OF ARTS AND SCIENCES | | | |
| Dean of Arts and Sciences | \$374,874.24 | \$29,784.33 | \$404,658.57 |
| Biochemistry | \$1,288,620.30 | \$420,030.88 | \$1,708,651.18 |
| Biology | \$4,728,684.93 | \$1,106,263.81 | \$5,834,948.74 |
| Chemistry | \$2,039,395.86 | \$556,870.56 | \$2,596,266.42 |
| Economics | \$50,864.08 | \$1,464.91 | \$52,328.99 |
| Geography | \$256,558.44 | \$12,831.89 | \$269,390.33 |
| Geology | \$106,643.47 | \$33,049.33 | \$139,692.80 |
| History | \$136,490.47 | \$0.00 | \$136,490.47 |
| James R. MacDonald Laboratory | \$1,658,487.69 | \$628,070.91 | \$2,286,558.60 |
| School of Journalism and Mass Communication | \$118,914.91 | \$0.00 | \$118,914.91 |
| Mathematics | \$143,994.31 | \$58,219.35 | \$202,213.66 |
| Music | \$1,600.00 | \$0.00 | \$1,600.00 |
| Kinesiology | \$480,775.58 | \$115,273.08 | \$596,048.66 |
| Physics | \$2,583,931.97 | \$526,933.20 | \$3,110,865.17 |
| High Energy Physics | \$877,419.00 | \$188,784.57 | \$1,066,203.57 |
| Psychology | \$381,970.82 | \$123,992.78 | \$505,963.60 |
| Sociology, Anthropology, & Social Work | \$150,158.37 | \$24,049.77 | \$174,208.14 |
| Statistics | \$67,371.70 | \$9,962.57 | \$77,334.27 |
| Total—College of Arts and Sciences | \$15,446,756.14 | \$3,835,581.94 | \$19,282,338.08 |

*Note: Data provided by the KSU Controller's Office, Sponsored Projects Accounting

| COLLEGE OF BUSINESS ADMINISTRATION | DIRECT COSTS | FACILITIES AND ADMINISTRATIVE COSTS | TOTAL |
|---|---------------------|--|---------------------|
| Dean of Business Administration | \$86,292.64 | \$0.00 | \$86,292.64 |
| Accounting | \$46,184.55 | \$21,013.97 | \$67,198.52 |
| Management | \$28,361.89 | \$12,525.70 | \$40,887.59 |
| Small Business Development Center | \$125,947.73 | \$6,744.62 | \$132,692.35 |
| Total—College of Business Administration | \$286,786.81 | \$40,284.29 | \$327,071.10 |

COOPERATIVE EXTENSION SERVICES

| | | | |
|--|-----------------------|--------------------|-----------------------|
| Director of Cooperative Extension | \$60,849.43 | \$0.00 | \$60,849.43 |
| Extension Engineering | \$138,117.60 | \$12,232.12 | \$150,349.72 |
| Extension Communications | \$11,168.18 | \$0.00 | \$11,168.18 |
| Kansas Forest Service | \$1,034,736.75 | \$0.00 | \$1,034,736.75 |
| Production Management & Natural Resource Dev. | \$524,520.46 | \$0.00 | \$524,520.46 |
| Extension Energy | \$120,005.19 | \$26,787.22 | \$146,792.41 |
| Southwest Area Office | \$53,139.88 | \$1,342.46 | \$54,482.34 |
| Northeast Area Office | \$22,932.84 | \$0.00 | \$22,932.84 |
| South Central Area Office | \$2,700.03 | \$0.00 | \$2,700.03 |
| Southeast Area Office | \$23,754.59 | \$0.00 | \$23,754.59 |
| Extension Office of Community Health | \$616,582.73 | \$5,124.47 | \$621,707.20 |
| Total—Cooperative Extension Services | \$2,608,507.68 | \$45,486.27 | \$2,653,993.95 |

COLLEGE OF EDUCATION

| | | | |
|---|-----------------------|---------------------|-----------------------|
| Dean of Educational Instructional Support | \$2,746,208.31 | \$348,346.16 | \$3,094,554.47 |
| Foundations & Adult Education | \$481,971.67 | \$32,831.86 | \$514,803.53 |
| Special Education | \$65,422.33 | \$14,341.34 | \$79,763.67 |
| Elementary Education | \$966,705.83 | \$61,386.61 | \$1,028,092.44 |
| Secondary Education | \$112,071.36 | \$3,463.69 | \$115,535.05 |
| Total—College of Education | \$4,372,379.50 | \$460,369.66 | \$4,832,749.16 |

COLLEGE OF ENGINEERING

| | | | |
|--|-----------------------|-----------------------|------------------------|
| Dean of Engineering | \$29,940.29 | \$0.00 | \$29,940.29 |
| Biological & Agricultural Engineering | \$582,973.71 | \$78,428.42 | \$661,402.13 |
| Architectural Engineering and Construction Science | \$9,948.77 | \$920.78 | \$10,869.55 |
| Chemical Engineering | \$216,808.97 | \$78,213.20 | \$295,022.17 |
| Civil Engineering | \$948,765.50 | \$148,612.34 | \$1,097,377.84 |
| Computing & Information Sciences | \$770,727.58 | \$231,385.77 | \$1,002,113.35 |
| Electrical & Computer Engineering | \$509,067.37 | \$141,871.65 | \$650,939.02 |
| Engineering Experiment Station | \$23,703.49 | \$0.00 | \$23,703.49 |
| Institute for Environmental Research | \$487,055.01 | \$88,878.87 | \$575,933.88 |
| Industrial & Manufacturing Systems Engineering | \$139,587.01 | \$58,705.76 | \$198,292.77 |
| Mechanical & Nuclear Engineering | \$1,326,460.66 | \$243,569.13 | \$1,570,029.79 |
| Advanced Manufacturing Institute | \$1,999,848.42 | \$78,730.63 | \$2,078,579.05 |
| Kansas Industrial Extension Services | \$597,502.50 | \$40,790.18 | \$638,292.68 |
| Center for Hazardous Substance Research | \$1,043,656.54 | \$241,079.54 | \$1,284,736.08 |
| National Institute for Land Management & Training | \$514,878.25 | \$47,368.11 | \$562,246.36 |
| National Gas Machinery Laboratory | \$380,544.74 | \$155,132.16 | \$535,676.90 |
| Total—College of Engineering | \$9,581,468.81 | \$1,633,686.54 | \$11,215,155.35 |

COLLEGE OF HUMAN ECOLOGY

| | | | |
|---|-----------------------|---------------------|-----------------------|
| Dean of Human Ecology | \$1,565,961.21 | \$385,084.54 | \$1,951,045.75 |
| Apparel, Textiles and Interior Design | \$79,257.64 | \$6,538.91 | \$85,796.55 |
| Hotel, Restaurant, Institution Management & Dietetics | \$61,471.55 | \$5,082.17 | \$66,553.72 |
| Foods & Nutrition | \$308,036.90 | \$61,491.57 | \$369,528.47 |
| School of Family Studies & Human Services | \$2,639,705.51 | \$151,883.47 | \$2,791,588.98 |
| Total—College of Human Ecology | \$4,654,432.81 | \$610,080.66 | \$5,264,513.47 |

| SALINA COLLEGE OF TECHNOLOGY | DIRECT COSTS | FACILITIES AND ADMINISTRATIVE COSTS | TOTAL |
|--|----------------------------------|--|------------------------|
| Dean of College of Technology and Aviation | \$108.00 | \$0.00 | \$108.00 |
| Salina Arts, Science & Business | \$47,462.08 | \$0.00 | \$47,462.08 |
| Salina Continuing Education | \$9,438.59 | \$0.00 | \$9,438.59 |
| Salina Library | \$1,500.00 | \$0.00 | \$57,008.67 |
| Total-Salina College of Technology | \$58,508.67 | \$0.00 | \$58,508.67 |
| VETERINARY MEDICAL CENTER | | | |
| Dean of Veterinary Medical Center | \$6,442.99 | \$0.00 | \$6,442.99 |
| Anatomy and Physiology | \$1,461,295.75 | \$452,233.74 | \$1,913,529.49 |
| Food Animal Health & Management Center | \$375,384.80 | \$25,547.54 | \$400,932.34 |
| Diagnostic Medicine/Pathobiology | \$602,659.02 | \$146,655.42 | \$749,314.44 |
| Clinical Sciences | \$202,592.50 | \$67,726.76 | \$270,319.26 |
| Total-Veterinary Medical Center | \$2,648,375.06 | \$692,163.46 | \$3,340,538.52 |
| Grand Total | \$52,049,576.87 | \$8,350,957.58 | \$60,400,534.45 |

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.

Fall 2000 Awards

Andrus, Lynda E., Art, \$900. "Support to Fund Materials to Create Artwork and Ship the Pieces to the Following Exhibitions: 16th National Collage Exhibit, Performing Arts Center, Fine Arts Center, Fine Arts Gallery, Kirtland, Ohio."

Archer, Allen W., Geology, \$1,500. "Rhythmite Deposition: Calibration of Simulations Based on Alaska Data."

Behlman, Lee, English, \$1,800. "The Postures of Victorian Stoicism."

Blake, Kevin, Geography, \$900. "Representing Nature in Mountain Symbolism and Place Identity."

Brannon, Laura, Psychology, \$500. "Increasing AIDS Message Processing by Addressing Recipients' Personalities."

Clark, Robert L.A., Modern Languages, \$242. "Travel Support to Study Manuscript in Arras."

Cokinos, Christopher A., English, \$800. "The Fallen Sky: Eccentrics and Scientists in Pursuit of Shooting Stars."

Gao, Stephen S., Geology, \$700. "During This Trip, the Principal Investigator Plans to Visit Professor Chen's Department at PKU and the China Seismological Bureau. The Focus of the Visit will be the Collection of All the Data Sets Related to Several Great Earthquakes."

Gray, Marion W., History, \$929. "Economic Norms of Widowhood in Early Modern German Landed Nobility."

Haar, Sherry J., Apparel, Textiles and Interior Design, \$1,000. "The Effects of Costume on Preschool Children's Story Retelling."

Haddock, Michael, Libraries, \$800. "Research on Movie Trailer Industry, Los Angeles."

Hemenover, Scott, Psychology, \$1,800. "Emotional Disclosures and Health Outcomes: Testing a Model of Co-Activated Positive and Negative Emotion."

Holcombe, Anna Calluori, Art, \$700. "Printing A Catalog of Recent Creative Works."

Hsu, Cathy H.C., Hotel, Restaurant, Institution Management and Dietetics, \$2,000. "Consumers' Expectation of Travel Agents and Their Willingness to Pay for Service."

Hubbard, Mary S., Geology, \$1,200. "Timing of Basin Formation, Central Colorado."

Jones, Keith S., Psychology, \$700. "A Case Study of the Usability of Screen-Reading Devices."

Kremer, S. Lillian, English, \$5,000. "Holocaust Literature."

Leland, Suzanne M., Political Science, \$1,705. "Why Cities and Counties Attempt Consolidation Despite the Odds."

Linder, Robert D., History, \$1,000. "History of Evangelical Christianity in Australia, 1788-Present."

Liu, Kelly H., Geology, \$700. "This USRG Proposal Requests Funds to Purchase Four 33 Gb Disk Drives to Install Gathered Data Sets, and 10 Dlt Taps to Back Up the Data Sets."

Nel, Philip, English, \$2,000. "Harold, Barnaby, And Dave: The Life and Work of Crockett Johnson."

Payne, Patricia, Diagnostic Medicine/Pathobiology, \$1,200. "Establishment of A Tick Colony."

Ritterbush, Lauren W., Sociology, Anthropology and Social Work, \$1,915. "Radiocarbon Dating the Leary Site: A Pilot Study."

Tollefson, Scott D., Political Science, \$1,865. "Brazil's Growing Hegemony in South America: Implications of U.S. Foreign Policy."

Turner, Tracy Margo, Economics, \$200. "The Effect of House-Price Volatility on the Housing Outcomes of Low- and Moderate-Low Families."

Wright, Doris J., Counseling and Educational Psychology, \$1,700. "Career Paths of Women: A Qualitative Investigation."

Spring 2001 Awards

Barnard, Ken, Aviation, \$346. "Certified Flight Instructor Renewal Research."

Behlman, Lee, English, \$1,160. "The Victorians and Ancient Stoicism."

Buszek, Keith, Chemistry, \$1,000. "Intramolecular Aryne Cycloadditions in Organic Synthesis."

Carpenter, James W., Clinical Sciences, **Robert P. Hunter**, Anatomy and Physiology, **Christal Pollock**, Clinical Sciences, and **Ramiro Isaza**, Clinical Sciences, \$2,000. "Pharmacokinetics of Azithromycin and Marbofloxacin in the Cockatiel."

Cochran, Mary Lee, Music, \$2,000. "Ragtime Women: Then and Now."

Dayton, Tim, English, \$800. "Gil Brewer."

Ferguson, Carolyn J., and **Mayfield, Mark H.**, Biology, \$955. "A Plant Specimen Database for the Kansas State University Herbarium."

Gao, Stephen S., Geology, \$3,000. "Construction of a Permanent Seismic Station: Labor Costs."

Gartner, Kurt, Music, \$3,000. "Synthesis of Cuban Musical Styles and Percussion Ensemble."

Gordon, Joye, Journalism and Mass Communications, \$1,000. "Psychological Determinants of Food-Related Risk Perceptions."

Haub, Mark D., Human Nutrition, \$3,000. "Is Glucose Tolerance Decreased by a High Fat Meal in Humans?"

Hemenover, Scott, Psychology, \$2,100. "Neuroticism, Extraversion and Differential Mood Rates: An Experience Sampling Methodology Study."

Hunter, Robert P., (see **Carpenter, James W.**)

Isaza, Ramiro, (see **Carpenter, James W.**)

Janda, Swinder, Marketing, \$820. "The Phenomenology of Internet Addiction."

Kaup, Migette L., Apparel, Textiles and Interior Design, \$600. "Assessment of Nursing Station Social Patterns in a Long-Term Care Facility."

Levy, Christopher J., Chemistry, \$2,000. "New Metallocene Catalysts for Asymmetric Transformations."

Liu, Kelly H., Geology, \$2,800. "Construction of a Permanent Seismic Station: Material Costs."

Mayfield, Mark H. (see **Ferguson, Carolyn J.**)

McFarland, Richard G., Marketing, \$3,000. "The Determinants of Interpersonal Sales Influence Tactics."

Mitchell, Kathy, Anatomy And Physiology, \$2,000. "Chronic Heart Failure, Exercise Training and Na⁺, K⁺-ATPase Isoform Expression."

Nel, Philip, English, \$650. "Harold, Barnaby, And Dave: The Life and Work of Crockett Johnson."

Olsen, Dennis, Clinical Sciences, \$2,000. "Creation of Isolated Intestinal Pouches for Evaluation of Intestinal Irritation Potential of Orally-Administered Substances."

Parker, Craig B., Music, \$1,200. "Research at UCLA Libraries Regarding 'A History of The Los Angeles Music Festival' and 'Stravinsky Premeires in Los Angeles,' Los Angeles, California."

Pigno, Antonia Quintana, Modern Languages, \$500. "Advanced Poetry: 2001 Iowa Summer Writing Festival."

Pollock, Christal, (see **Carpenter, James W.**)

Sandercock, Brett K., Biology, \$3,000. "Effects of Fire on the Nesting Habitat of Upland Sandpipers."

Sauter, Silvia, Modern Languages, \$3,000. "25th Summer Session, The School of Criticism and Theory, Cornell University."

Sherow, James E., History, \$950. "A Southern Cheyenne Family History: The Harts from 1900–2000."

Turner, Tracy Margo, Economics, \$1,300. "The Effect of Expanding the Mortgage Interest Deduction to Low-Income Households."

Watts, Carol Ann, Architecture, \$960. "Computer Model of Roman Layers below The Cathedral of Florence, Italy."

Weiss, Mark L., Anatomy And Physiology, \$3,000. "Exploring the Fate of Xeno-Transplanted Stem Cells."

Yum, Young-Ok, Speech Communication, Theatre, and Dance, \$810. "A Survey, Diary, and Interview Study on Motivation, Learning/Performances, Quality of Life, and Communication: How Can We Help Our Students Think Hard, Work Hard, and Play Hard?"

FACULTY DEVELOPMENT AWARDS

Faculty Development Awards are awarded by the Office of Research and Sponsored Programs and serve primarily as travel awards. They may be used for travel to international meetings, travel for foreign exchange, travel to offices of potential external funding sponsors, and as matching funds on certain fellowships, but they may not be used for research travel.

Fall 2000 Awards

Clark, Robert L.A., Modern Languages, \$800. "SITM, Groningen, Holland."

Ebright, Wanda K., Speech Communication, Theatre, and Dance, \$600. "International Association of Blacks in Dance Conference, San Diego, California."

Glymour, Bruce, Philosophy, \$500. "Philosophy and Science Association."

Gordon, Joye, Journalism and Mass Communications, \$300. "Society of Risk Analysis, Arlington, Virginia."

Haddock, Michael, Libraries, \$800. "2001: A Range Odyssey. The Society for Range Management 54th Annual Meeting, Kailua-Kona, Hawaii."

Hedrick, Don, English, \$750. "International Shakespeare Congress, Seville, Spain."

Hohn, Keith L., Chemistry, \$700. "Present Paper at the North American Catalysis Society Meeting, Toronto, Canada."

Hunt, Daniel W., Art, \$500. "Iron Casting Master Class, Norwich School of Art and Design."

Janda, Swinder (See **Trocchia, Philip**)

Lehew, Melody L.A., Apparel, Textiles, and Interior Design, \$1,400. "International Conference on Research in the Distributive Trades, Tilburg, The Netherlands."

Lei, Shuting, Industrial and Manufacturing Systems Engineering, \$500. "To Travel to Seek Support from the Department of Defense and National Science Foundation Program Managers, Arlington, Virginia."

Liu, Kelly H., Geology, \$900. "To Support a 10-Day K-State Visit by Professor Ron Girdler, a Professor at University of New Castle, England, and a Top Expert on the Study of Impact Structures by Meteorites on the Earth."

Marsh, Thomas L., Agricultural Economics, \$1,400. "Australian Agricultural and Resource Economics Meetings, Adelaide, South Australia."

Murray, John P., Family Studies and Human Services, \$800. "UNESCO Young People and Media Forum, Sydney, Australia."

Najjar, Yacoub M., Civil Engineering, \$500. "NSF—Geo-Institute International Research Workshop and Visit to Ten Australian Universities/Research Centers."

Noblett, Duane, Art, \$600. "Drawing Connections Exhibition, Book Launch, Drawing Masterclass, and Paper Casting."

Ottenheimer, Harriet J., Sociology, Anthropology and Social Work, \$900. "Teaching Exchange (Fulbright), Charles University, Prague, Czech Republic."

Pecar, Marina, Architecture, \$1,000. "International Association for the Study of Traditional Environments IASTE 2000: The End of Tradition, Trani, Italy"; "OBT 2000-Continuous Customization of Housing/Open Building Implementation, Tokyo, Japan."

Pei, Zhijian, Industrial and Manufacturing Systems Engineering, \$500. "Visit NSF, Washington, DC, and Four Companies (Phoenix), and Attend ASPE Annual Meeting."

Potts, Donna L., English, \$1,000. "Travel to Prague for Faculty Exchange at Charles University."

Schaeffer, Robert K., Sociology, Anthropology and Social Work, \$500. "The Conference on Constitutional, Legal, and Political Regulation and the Management of Ethnic Relations, Institute for Ethnic Studies, Ljubljana, Slovenia."

Shang, Xuhong, Art, \$1,000. "International Academic Exchange: Invitational Lectures/Workshops and Exhibition to be Presented at The Shanghai Teachers University, Shanghai, China."

Simic, Dragoslav, Architecture, \$800. "Ukraine (Kiev And Poltava)."

Steward, David R., Civil Engineering, \$1,400. "Ecole Nationale Supérieure de Mines de Saint-Etienne, France; European Geophysical Society 26th General Assembly, Nice, France."

Trocchia, Philip and **Janda, Swinder**, Marketing, \$900. "Academy of Marketing Science World Marketing Science Congress, Cardiff, Wales."

Tummala, Krishna, K., Political Science, \$1,400. "Delegation to Cuba."

Zolkiewska, Anna, Biochemistry, \$500. "Gordon Research Conference on Myogenesis, Barga, Italy."

Spring 2001 Awards

Asano, Katsura, Biology, \$600. "ZOMES II Meeting, Tel Aviv, Israel."

Ben-Arieh, David, Industrial and Manufacturing Systems Engineering, \$1,000. "The 16th International Conference on Production Research, Prague, Czech, Republic."

Britton, Dana M., Sociology, Anthropology and Social Work, \$1,000. "Rethinking Gender, Work and Organization, Keele University, Staffordshire, England."

Cai, Steve C.S., Civil Engineering, \$1,200. "Travel to Beijing and Shanghai, China."

Clem, Rollie J., Biology, \$1,000. "Annual Meeting of the Society for Invertebrate Pathology, Noordwijkerhout, Netherlands."

Esry, Brett, Physics, \$1,300. "Few-Body Systems at Low Energies: Open Questions, Trento, Italy."

Fagerness, Matthew J., Horticulture, Forestry and Recreation Resources, \$1,300. "International Turfgrass Research Conference, Toronto, Canada."

Ganta, Roman Reddy, Diagnostic Medicine/Pathobiology, \$1,000. "International Joint Conference, Society for Tropical Veterinary Medicine (STVM) and Wildlife Disease Association, Pilanesberg National Park, Sun City, South Africa."

Hippolyte, Jean-Louis, Modern Languages, \$1,600. "International Conference of European Literature and Literacy History, Peking University, Beijing, China."

Margolies, David C., Entomology, \$2,000. "Seventh International Symposium on Thysanoptera, Reggio Calabria, Italy."

Nechols, James R., Entomology, \$1,000. "First International Symposium on Biological Control of Arthropods, Honolulu, Hawaii."

Oberst, Richard D., Diagnostic Medicine/Pathobiology, \$1,000. "Tenth International Symposium of Veterinary Laboratory Diagnosticians, Salsomaggiore-Parma, Italy."

Parker, Craig B., Music, \$1,500. "College Music Society, Limerick, Ireland."

Passarelli, A. Lorena, Biology, \$1,200. "Thirty-Fourth Annual Meeting of The Society for Invertebrate Pathology, The Netherlands."

Prins, Harald E.L., Sociology, Anthropology and Social Work, \$1,500. "Origins of Visual Anthropology, Gottingen, Germany."

Ramm, Alexander G., Mathematics, \$1,245. "Society for Analysis, Applications and Computing, Berlin, Germany."

Ramsay, Michael A., History, \$650. "Society for Military History Annual Conference, Calgary, Alberta, Canada."

Roe, Judith L., Biology, \$1,000. Plant Phosphorylation, Vienna, Austria."

Sandercock, Brett K., Biology, \$500. "International Ornithology Meeting: A Joint Meeting of The American Ornithologists' Union and Society of Canadian Ornithologists, Seattle, Washington."

Sheu, Chwen, Management, \$1,100. "Asia Pacific Decision Sciences Institute Conference, Singapore."

Siepl-Coates, Susanne, Architecture, \$2,000. "Annual Conference of The Environmental Design Research Association, Edinburgh, Scotland."

Simon, Madlen, Architecture, \$2,000. "Thirtieth International Making Cities Livable Conference, Venice, Italy."

Verschelden, Cia, Sociology, Anthropology and Social Work, \$1,200. "National Institutes of Mental Health Conference on The Role of Families in Preventing and Adapting to HIV/AIDS, Los Angeles, California."

Wang, Youqi, Mechanical and Nuclear Engineering, \$800. "Seventh Japan International SAMPE."

Westman, Karin E., English, \$750. "Material Modernisms Conference, University of British Columbia, Vancouver, Canada."

Wright, Doris J., Counseling and Educational Psychology, \$1,000. "Development of Women in Jazz Travel, Washington, D.C."

U.S. PATENTS

Eight patents were issued from July 1, 2000 to June 30, 2001 to the KSU Research Foundation

(Listed in reverse chronological order)

Sung I. Koo "Phosphatidylcholine Compositions and Methods for Lowering Intestinal Absorption and Plasma Levels of Cholesterol" (#6,248,728)

Stephen A. Blum, Kevin Q. Owen, Jim L. Nelssen, Robert D. Goodband, Michael D. Tokach, Rene A. Blum, and Robert E. Musser "Carnitine Supplemented Diets for Gestating and Lactating Swine" (#6,242,487)

Shafiqul I. Chowdhury "Infectious Bovine Rhinotracheitis Vaccines and Methods" (#6,221,360)

Xiuzhi S. Sun, Paul Seib, and Hua Wang "High Strength Plastic from Reactive Blending of Starch and Polylactic Acids" (#6,211,325)

Paul W. Baures "Aspartic Protease Inhibitors" (#6,184,241)

Christopher R. Ross, Frank Blecha, and Jishu Shi "Peptide Modulation of Reperfusion Injury" (#6,133,233)

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