RESEARCH 2008
Kansas State University

A Report of Research and Sponsored Programs for Fiscal Year 2008
About the cover:

“Deployment isn’t a big thing. It’s a million little things. Families go through a lot.”
—The clear-eyed sentiments of a Maine National Guard sergeant resound in Kansas and around the world.

Her observation reminds us that sometimes we can overlook the obvious—that it’s the children who are especially vulnerable when Mom or Dad is deployed. Military kids have unique needs for support and services, needs that may go unnoticed by teachers and classmates, especially if the family resides in the civilian community not on base.

On behalf of the children of service personnel, the National 4-H Headquarters at the U.S. Department of Agriculture has established partnerships with Army Child, Youth and School Services, Air Force Family Member Programs, Navy Child and Youth Programs, and National Guard and Reserve.

These 4-H Military Partnerships rely on land-grant university faculty and staff to serve as project directors, liaisons, and specialists. As a result of this framework, there’s a growing array of expanded military youth programming available in local communities and on military installations around the world.

Kansas State University is a leader in this youth programming effort. KSU faculty from the School of Family Studies and Human Services coordinate the partnerships with all branches of the military. In FY 2008, KSU was awarded almost $10 million to support such crucial program development.

Here are highlights of “Operation: Military Kids,” the Army’s collaborative effort with America’s communities to support children and youth of National Guard, Reserve and active duty families.

★ “Operation: Military Kids,” which delivers a wide range of recreational, social and educational programs for military youth living in civilian communities, will become available in all 50 states and the District of Columbia by 2009.

★ As part of OMK, more than 47,000 children have received “Hero Packs” since 2004—special backpacks identify them as “military kids” and recognize their sacrifices while a parent is deployed. Hero Packs are filled with items from OMK partner agencies.

★ Some 40 Mobile Technology Labs travel the states now. Each lab is equipped with information technology specifically for use by children of military families. Laptops, printers, scanners, laminators, DVD burners, digital cameras and video cameras as well as a variety of software packages are available to help kids stay connected to family.

The 4-H military partnerships also offer:
• 4-H programs on military installations and in communities
• 4-H 101 training for military staff
• Speak Out for Military Kids, a program to help military kids talk about their lives and the impact of deployment and share their experiences with others in their community
• Club grants to support 4-H clubs for military youth and integrate those youth into county 4-H programs
• Day camps, residential camps, workshops, Military Family Days
• Ready, Set, Go! Training to enlist community support for these children.

Websites:  www.4-hmilitarypartnerships.org
          www.operationmilitarykids.org

Contact Marlene Glasscock, Project Director, research assistant professor, Kansas State University School of Family Studies and Human Services, 785-532-1484, glass@ksu.edu

Cover design by Bob Holcombe
November 2008

Dear Colleagues:

Congratulations! In the past fiscal year, faculty researchers received 926 extramural awards totaling $118 million. Your efforts clearly exceeded expectations in today’s aggressive funding environment.

With the inclusion of $67.3 million of state and federally appropriated funds and $33.6 million in support from the KSU Foundation, the university’s overall research funding base expands to a very impressive $219 million.

The $20 million-plus colleges in competitive funding in FY08 are: Arts and Sciences with 169 awards totaling $25.5 million; Human Ecology with 41 awards totaling $23.2 million; and Agriculture with 345 awards totaling $21 million.

Campus-wide there are 16 “million dollar” awards ranging from $1 million to almost $10 million. These seven-figure grants are funded by: the Department of Agriculture (4), Department of Defense (4), Department of Education (1), Department of Energy (1), Department of Health and Human Services (2), the Kansas Bioscience Authority (2), the National Academic Advising Association (1) and the National Science Foundation (1). Innumerable “million dollar” K-State investigators contributed to securing these awards; their academic homes are many and varied.

To document the extensive collaboration across campus, we continue listing awards to each member of a research team and indicating the dollar share of the award that is assigned to a department or college. We hope you find this method helpful and equitable.

So, again, congratulations to all K-State faculty, staff and students who have contributed to another remarkably successful funding year. Your accomplishments are truly impressive and noteworthy. And, thank you to all the non-K-State collaborators as well.

Sincerely,

R.W. Trewyn
Vice President for Research
President, KSU Research Foundation
### KANSAS STATE UNIVERSITY
### RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE

**Fiscal Year 2008**

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. SPONSORED</strong></td>
<td>$117,957,312</td>
</tr>
<tr>
<td><strong>II. APPROPRIATED</strong></td>
<td></td>
</tr>
<tr>
<td>Main Campus State Appropriation</td>
<td>$3,210,950</td>
</tr>
<tr>
<td>Experiment Station Programs and Extension Services</td>
<td></td>
</tr>
<tr>
<td>Federal Appropriation</td>
<td>$8,738,332</td>
</tr>
<tr>
<td>State Appropriation</td>
<td>$54,807,626</td>
</tr>
<tr>
<td>Veterinary Medical Center State Appropriation</td>
<td>$549,889</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>$67,306,797</td>
</tr>
<tr>
<td><strong>III. DONATED</strong>*</td>
<td>$33,601,187</td>
</tr>
<tr>
<td><strong>RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL</strong></td>
<td>$218,865,296</td>
</tr>
</tbody>
</table>

*KSU Foundation funds transferred to KSU in support of research/scholarly activity (excludes transfers to Athletics).
DISTRIBUTION OF NEW AWARDS AMONG COLLEGES AND OFFICES OF THE UNIVERSITY

**Fiscal Year 2008**

<table>
<thead>
<tr>
<th>College/Office</th>
<th>Number of Awards</th>
<th>Dollar Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Agriculture</td>
<td>345</td>
<td>20,775,900</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>169</td>
<td>25,501,249</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>1</td>
<td>6,750</td>
</tr>
<tr>
<td>College of Education</td>
<td>39</td>
<td>6,494,966</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>186</td>
<td>16,536,928</td>
</tr>
<tr>
<td>College of Human Ecology</td>
<td>41</td>
<td>23,209,322</td>
</tr>
<tr>
<td>College of Technology and Aviation</td>
<td>5</td>
<td>374,095</td>
</tr>
<tr>
<td>College of Veterinary Medicine</td>
<td>89</td>
<td>12,748,007</td>
</tr>
<tr>
<td>Office of the President</td>
<td>6</td>
<td>2,035,176</td>
</tr>
<tr>
<td>Office of the Provost</td>
<td>12</td>
<td>902,728</td>
</tr>
<tr>
<td>Vice President for Administration and Finance</td>
<td>1</td>
<td>1,782</td>
</tr>
<tr>
<td>Vice President for Institutional Advancement</td>
<td>23</td>
<td>3,112,428</td>
</tr>
<tr>
<td>Vice Provost for Information Technology Services</td>
<td>2</td>
<td>51,916</td>
</tr>
<tr>
<td>Vice President for Research</td>
<td>7</td>
<td>6,206,066</td>
</tr>
<tr>
<td><strong>UNIVERSITY TOTALS</strong></td>
<td><strong>926</strong></td>
<td><strong>$117,957,312</strong></td>
</tr>
</tbody>
</table>

AWARDS BY COLLEGE

**Fiscal Year 2008**

- College of Veterinary Medicine 12.07%
- College of Technology & Aviation 0.35%
- College of Human Ecology 21.97%
- College of Engineering 15.65%
- College of Agriculture 19.67%
- College of Arts & Sciences 24.14%
- College of Business Administration 0.01%
- College of Education 6.15%
**KANSAS STATE UNIVERSITY**

**Sources of Awards**

**Fiscal Year 2008**

<table>
<thead>
<tr>
<th>College/Office</th>
<th>Number of Awards</th>
<th>Dollar Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area/Local Government</td>
<td>8</td>
<td>$265,688</td>
</tr>
<tr>
<td>Department of Agriculture</td>
<td>140</td>
<td>$29,348,006</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>45</td>
<td>$13,078,359</td>
</tr>
<tr>
<td>Department of Education</td>
<td>33</td>
<td>$7,597,093</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>30</td>
<td>$5,390,207</td>
</tr>
<tr>
<td>Department of Health and Human Services</td>
<td>84</td>
<td>$16,850,668</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>40</td>
<td>$3,098,581</td>
</tr>
<tr>
<td>Foundations</td>
<td>37</td>
<td>$1,278,008</td>
</tr>
<tr>
<td>Industry</td>
<td>301</td>
<td>$17,007,015</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>72</td>
<td>$9,582,524</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>6</td>
<td>$145,952</td>
</tr>
<tr>
<td>Other Federal</td>
<td>67</td>
<td>$5,235,908</td>
</tr>
<tr>
<td>State of Kansas</td>
<td>63</td>
<td>$9,079,304</td>
</tr>
</tbody>
</table>

**TOTAL** ............................................................... 926 ...................... $117,957,312

**Sources of Awards**

**Fiscal Year 2008**

- **State of Kansas** 7.70%
- **National Science Foundation** 8.12%
- **Industry** 14.42%
- **Department of Agriculture** 24.88%
- **Department of Defense** 11.09%
- **Department of Education** 6.44%
- **Department of Energy** 4.57%
- **Department of Health and Human Services** 14.29%
- **Foundations** 1.08%
- **Environmental Protection Agency** 2.63%
- **Other Federal** 4.44%
- **Area/Local Government** 0.23%
- **National Aeronautical and Space Administration** 0.12%
EXTRAMURAL AWARDS
Fiscal Year 2008 (July 1, 2007–June 30, 2008)

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

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

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

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

COLLEGE OF AGRICULTURE AND K-STATE RESEARCH AND EXTENSION

AGRICULTURAL ECONOMICS

Amanor-Boadu, Vincent R., Alavi, Sajid (Grain Science and Industry), Lamsal, Buddhi P. (Grain Science and Industry), and Madl, Ronald L. (Grain Science and Industry), Kansas Soybean Commission, $5,360, “Bioenergy from Soybean Hulls-Efficiency and Economics of Different Pretreatment Processes.”


Barclay, Andrew P., Dhuyvetter, Kevin C., and Olson, Brian L. (Northwest Area Office), Kansas Crop Improvement Association, $2,000, “Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas.”


Boland, Michael A., US Department of Agriculture, $75,000, “Restructuring Cooperatives.”


Dhuyvetter, Kevin C., Barkley, Andrew P., and Olson, Brian L. (Northwest Area Office), Kansas Crop Improvement Association, “Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas.”


Dhuyvetter, Kevin C., Blasi, Dale A. (Animal Sciences and Industry), and Schroeder, Ted C., US Department of Agriculture, $14,050, “Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments.”

Golden, Billy B., Alam, Mahbub U. (Biological and Agricultural Engineering), Brouk, Micheal J. (Animal Sciences and Industry), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Lamm, Freddie R. (Northwest Research Extension Center), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Stone, Loyd R. (Agronomy), US Department of Agriculture, $83,438, “New Water Management Technologies to Sustain Rural Economies - KSU.”


Kastens, Terry, Aiken, Robert M. (Northwest Research Extension Center), Kluitenberg, Gerard J. (Agronomy), Maddux, Larry D. (Agronomy), Mengel, David B. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), and Stone, Loyd R. (Agronomy), Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”


Leatherman, John C., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L. (Agronomy), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Mankin, Kyle R. (Agronomy), and Pierzynski, Gary M. (Agronomy), US Environmental Protection Agency, $123,406 (includes $15,000 from Cooperator Support), “KS WRAPS KSU SFY 08 Technical Assistance Services.”


Schurle, Bryan W., and Mintert, James R., Kansas Soybean Commission, $5,000, “Grain Marketing Research and Education in Support of Kansas Soybean Producers.”


Woolverton, Michael W., Amanor-Boadu, Vincent R., Madl, Ronald L. (Grain Science and Industry), and O’Brien, Daniel M. (Northwest Area Office), Kansas Soybean Commission, $2,200, “Pre-Harvest Sprouting Resistance in Hard White Wheat.”

Woolverton, Michael W., Madl, Ronald L. (Grain Science and Industry), Staggenborg, Scott A. (Agronomy), and Wang, Donghai (Biological and Agricultural Engineering), US Department of Transportation, $5,250, “Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production.”

AGRICULTURAL EXPERIMENT STATION


Ricketts, Mitchell S., Gwirtz, Jeffrey A. (Grain Science and Industry), McKinney, Leland (Grain Science and Industry), St John, Rodney A. (Horticulture, Forestry and Recreation Resources), and Stevens, Alan B. (Horticulture, Forestry and Recreation Resources), US Department of Labor, $116,755, “Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses.”

AGRICULTURAL RESEARCH CENTER-HAYS

Brethour, John R., Multisponsor, $1,000, “Beef Research.”

Kofoid, Kenneth D., Aiken, Robert M. (Northwest Research Extension Center), and Prasad, P. V. Vara (Agronomy), Kansas Grain Sorghum Commission, $45,000, “Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance.”

Kofoid, Kenneth D., Multisponsor, $2,833, “Sorghum Research.”


Martin, Terry J., Fritz, Allan K. (Agronomy), and Prasad, P. V. Vara (Agronomy), Kansas Crop Improvement Association, $2,200, “Pre-Harvest Sprouting Resistance in Hard White Wheat.”

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


Martin, Terry J., Harvey, Tom L. (Entomology), and Seifers, Dallas L., Kansas Wheat Commission, $79,135, “Kansas Dual Purpose Pest Resistant White Wheats.”


Martin, Terry J., and Thompson, Carlyle A., Multisponsor, “Crop Culture.”
Seifers, Dallas L., Bockus, William W. (Plant Pathology), and Martin, Terry L., Kansas Crop Improvement Association, “Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike.”

Seifers, Dallas L., Harvey, Tom L. (Entomology), and Martin, Terry J., Kansas Wheat Commission, “Kansas Dual Purpose Pest Resistant White Wheats.”

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

Stahlman, Phillip W., Multisponsor, $144,825, “Weed Research.”

Stahlman, Phillip W., Olson, Brian L. (Northwest Area Office), Peterson, Dallas E. (Agronomy), and Thompson, Curtis R. (Agronomy), National Sunflower Association, $1,500, “Sunflower Response to KIH-485.”

Stahlman, Phillip W., National Sunflower Association, $12,500, “Use of an Experimental Compound to Replace Parquat as a Harvest Aid in Sunflower.”

Thompson, Carlyle A., and Martin, Terry J., Multisponsor, $12,903, “Crop Culture.”

AGRONOMY

Al-Khatib, Kassim, and Pierzynski, Gary M., Kansas Grain Sorghum Commission, “Breeding Grain Sorghum for Improved Dryland Production.”

Al-Khatib, Kassim, Kansas Grain Sorghum Commission, $184,000, “Quizalofop (Assure II) Herbicide Registration in Grain Sorghum.”

Al-Khatib, Kassim, Monsanto Company, $6,000, “Dicamba Tolerant Soybeans - Weed Control.”

Al-Khatib, Kassim, Pioneer Hi-Bred International, Inc., $10,000, “Field Trial Agreements.”

Al-Khatib, Kassim, Syngenta Corporation, $14,850, “Fomesafen/Glyphosate Premix: Evaluate Formulated Premix Variants for Weed Control and Crop Tolerance in Soybeans.”


Devlin, Daniel L., and Barden, Charles J. (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, $87,136, “Heartland Integrated Water Quality Coordination Initiative.”


Fick, Walter H., Multisponsor, $9,250, “Range and Pasture Brush and Weed Control.”

Fick, Walter H., Goodin, Douglas G. (Geography), Ham, Jay M., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Harrington Jr, John A. (Geography), and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, “Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains.”

Fritz, Allan K., Kansas Crop Improvement Association, $9,600, “Enhanced Disease/Insect Resistance in Kansas-Adapted Wheat Cultivars.”

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

Fritz, Allan K., and Fellers, John P. (Plant Pathology), Kansas Wheat Commission, $12,000, “Developing Multiple Pest Resistant Wheat Germplasm.”


Fritz, Allan K., Fellers, John P. (Plant Pathology), and Trick, Harold N. (Plant Pathology), Kansas Wheat Commission, “Wheat Improvement through Genetic Engineering.”


Ham, Jay M., Fick, Walter H., Goodin, Douglas G. (Geography), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Harrington Jr, John A. (Geography), and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, $178,927, “Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains.”


Kirkham, Mary B., and Williams, Kimberly A. (Horticulture, Forestry and Recreation Resources), Fred C. Gloeckner Foundation, Inc., $5,000, “Causes and Management of the Physiological Disorder Edema on Greenhouse Crops.”

Kluitenberg, Gerard J., Aiken, Robert M. (Northwest Research Extension Center), Kastens, Terry (Agricultural Economics), Maddux, Larry D., Mengel, David B., Schlegel, Alan J. (Southwest Research Extension Center), and Stone, Loyd R., Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”


Maddux, Larry D., Aiken, Robert M. (Northwest Research Extension Center), Kastens, Terry (Agricultural Economics), Kluitenberg, Gerard J., Mengel, David B., Schlegel, Alan J. (Southwest Research Extension Center), and Stone, Loyd R., Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”


Mankin, Kyle R., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Leatherman, John C. (Agricultural Economics), and Pierzynski, Gary M., US Environmental Protection Agency, “KS WRAPS KSU SFY 08 Technical Assistance Services.”


Mengel, David B., Aiken, Robert M. (Northwest Research Extension Center), Kastens, Terry (Agricultural Economics), Kluitenberg, Gerard J., Maddux, Larry D., Schlegel, Alan J. (Southwest Research Extension Center), and Stone, Loyd R., Kansas Corn Commission, $31,120, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”

Mengel, David B., Kansas Grain Sorghum Commission, $18,000, “Enhancing Sorghum Yield and Profitability through Efficient Nitrogen Management: Phase II.”

Mengel, David B., Kansas Soybean Commission, $7,500, “Correction of Potassium Deficiency in No-till and Strip-till Soybean Production.”


Peterson, Dallas E., Olson, Brian L. (Northwest Area Office), Stahlman, Phillip W. (Agricultural Research Center-Hays), and Thompson, Curtis R., National Sunflower Association, $3,000, “Sunflower Response to KIH-485.”

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

Pierzynski, Gary M., Kansas Department of Health and Environment, $120,361, “Soil Treatment Field Trials - Cherokee County Superfund Site.”

Pierzynski, Gary M., and Al-Khatib, Kassim, Kansas Grain Sorghum Commission, “Breeding Grain Sorghum for Improved Dryland Production.”


Pierzynski, Gary M., US Department of Agriculture, $82,185, “Development of Abiotic Stress Resistant Wheat Germplasm.”


Pierzynski, Gary M., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L., Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Leatherman, John C. (Agricultural Economics), and Mankin, Kyle R., US Environmental Protection Agency, “KS WRAPS KSU SFY 08 Technical Assistance Services.”


Prasad, P. V. Vara, Aiken, Robert M. (Northwest Research Extension Center), and Kofoid, Kenneth D. (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, “Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance.”

Prasad, P. V. Vara, Price, Randy R. (Biological and Agricultural Engineering), and Staggenborg, Scott A., Kansas Grain Sorghum Commission, “Developing a Real-time Crop Sensing Systems to Enhance Stress Tolerance Screening.”

Prasad, P. V. Vara, Roozeboom, Kraig L., Vadlani, Praveen V. (Grain Science and Industry), and Yu, Jianming, Kansas Grain Sorghum Commission, $23,100, “Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production.”


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


Stamm, Michael J., and Pierzynski, Gary M., Kansas Crop Improvement Association, “Improving Shatter Resistance of Winter Canola.”

Stamm, Michael J., and Chumley, Forrest G. (Agricultural Experiment Station), US Department of Agriculture, “Development and Management of Canola in the Great Plains Region.”

Stamm, Michael J., US Department of Transportation, $47,760, “Biodiesel Feedstock Development for the Southern Great Plains.”

Stone, Loyd R., Aiken, Robert M. (Northwest Research Extension Center), Kastens, Terry (Agricultural Economics), Kluitenberg, Gerard J., Maddux, Larry D., Mengel, David B., and Schlegel, Alan J. (Southwest Research Extension Center), Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”

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

Thompson, Curtis R., and Janssen, Keith A., Multiplier, $293,186, “Field Herbicidal Evaluations.”


Welch, Stephen M., Das, Sanjov (Electrical and Computer Engineering), Hsu, William H. (Computing and Information Sciences), Knapp, Mary C. (Dean of Agriculture and Director of AES), and Roe, Judith L., National Science Foundation, $170,918, “Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments.”

Yu, Jianming, Prasad, P. V. Vera, Rozeboom, Kraig L., and Vadlani, Praveen V. (Grain Science and Industry), Kansas Grain Sorghum Commission, “Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production.”

Yu, Jianming, Akhunov, Eduard D. (Plant Pathology), Brown, Susan J. (Biological), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A. (Plant Pathology), Gill, Bikram S. (Plant Pathology), Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeev Kumar (Diagnostic Medicine/Pathobiology), Nelson, James C. (Plant Pathology), White, Frank F. (Plant Pathology), and Zurek, Ludek (Entomology), Kansas State University, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

**ANIMAL SCIENCES AND INDUSTRY**

Aramouni, Fadi M., Kansas Department of Commerce, $10,000, “Equipment Grant.”

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


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

Bradford, Barry J., and Titgemeyer, Evan C., American Feed Industry Association, $15,863, “Assessing the Ability of Molasses to Prevent Milk Fat Depression from Distillers Grains and Solubles.”


Bradford, Barry J., Quality Liquid Feeds, Inc., $27,200, “Effects of NutriCotinT on Diet Digestibility, Feed Intake, Production, and Milk Fatty Acid Profile of High-Producing Dairy Cattle.”

Brouk, Micheal J., Alam, Mahbub U. (Biological and Agricultural Engineering), Golden, Billy B. (Agricultural Economics), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Lamm, Freddie R. (Northwest Research Extension Center), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agricultural Economics), and Stone, Loyd R. (Agricultural Economics), US Department of Agriculture, $55,625, “New Water Management Technologies to Sustain Rural Economics - KSU.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Hill's Pet Nutrition, Inc., “Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipico Acid, Proline/Glycine, and Amino Acid Level, on Osteochondrosis in Pigs.”


DeRouchey, Joel M., Bergstrom, Jonathan R., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Kansas Soybean Commission, “Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Lucta USA Inc., $20,000, “Evaluation of High Protein DDGS for Swine.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Lifeline Foods, LLC, $12,000, “Evaluation of High Protein DDGS for Swine.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Lucra USA Inc., $20,000, “Influence of Luctaromn Advance in Creep Feed and on Nursery Diet Complexity.”


DeRouchey, Joel M., Behnke, Keith C. (Grain Science and Industry), Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., McKinney, Leland (Grain Science and Industry), Nelssen, Jim L., and Tokach, Michael D., National Pork Board, $7,920, “Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs.”

DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, $10,000, “Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, $10,000, “Evaluation of PepSoYoGen and DPS in Diets for Nursery Pigs.”


DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., VeraSun Energy Corporation, $31,000, “Evaluation of De-Oiled Distiller’s Dried Grains with Solubles for Finishing Swine.”

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, “Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs II.”

Dritz, Steven S., Bergstrom, Jonathan R., DeRouchey, Joel M., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, “Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs II.”

Drouillard, James S., Buhrer AG, $797,000, “Alternative Method for Manufacturing Thermally Processed Feed Blocks for Livestock.”

Drouillard, James S., Dakota Gold Research Association, $52,500, “Dried Distillers Grains with Solubles In-Kind Contribution.”


Drouillard, James S., John I. Haas, Inc., $58,931, “Beta Acid Extracts of Hops: Effects on Ruminal Metabolism and Apparent Total Tract Digestibility in Steers fed High Concentrate Diets.”

Drouillard, James S., Kansas Soybean Commission, $50,000, “Processing Strategies to Increase Value of Soybean Co-Products for Cattle Feeding.”

Drouillard, James S., National Cattlemen’s Beef Association, $20,000, “Characterizing Quality and Composition of Beef Derived from Cattle Feed Finishing Diets with or without Distiller’s Grains.”

Drouillard, James S., National Cattlemen’s Beef Association, $52,610, “Mucins as Growth Factors that Stimulate Colonization of the Bovine Gastrointestinal Tract by E. coli O157:H7.”

Drouillard, James S., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), National Cattlemen’s Beef Association, $36,750, “Strategies to Address Adverse Effects of Distiller’s Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle.”


Hancock, Joe D., US Agency for International Development, $84,580, “Enhancing the Utilization and Marketability of Sorghum and Pearl Millet through Improvements in Grain Quality, Processing Procedures, and Technology Transfer to the Poultry Industry.”

Herald, Thomas J., and Aramouni, Fadi M., Kansas Department of Commerce, “Food and Feed Value Added Program Project.”


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


Minton, J. Ernest, and Erickson, Howard H. (Anatomy and Physiology), United Feeds, “Omega-3 Fatty Acids for Exercise-Induced Pulmonary Hemorrhage.”


Nelsen, Jim L., and Tokach, Michael D., “Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs II.”

Nelsen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, “Evaluation of Pepsxygen and DPS in Diets for Nursery Pigs II.”

Goodband, Robert D., DeRouche, Joel M., Dritz, Steven S., (Diagnostic Medicine/Pathobiology), Nelsen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, “Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs.”

Goodband, Robert D., DeRouche, Joel M., Dritz, Steven S., (Diagnostic Medicine/Pathobiology), Nelsen, Jim L., and Tokach, Michael D., Purco, “PURCO Project.”

Goodband, Robert D., DeRouche, Joel M., Dritz, Steven S., (Diagnostic Medicine/Pathobiology), Nelsen, Jim L., and Tokach, Michael D., Rembrandt Enterprises, $30,000, “Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/ Glycine, and Amino Acid Level, on Osteochondrosis in Pigs.”


Nelssen, Jim L., DeRouche, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodhand, Robert D., and Tokach, Michael D., Kansas Soybean Commission, “Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality.”


Nelssen, Jim L., Behnke, Keith C. (Grain Science and Industry), DeRouche, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodhand, Robert D., McKinney, Leland (Grain Science and Industry), and Tokach, Michael D., National Pork Board, “Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs.”


Nelssen, Jim L., DeRouche, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodhand, Robert D., and Tokach, Michael D., Purco, “PURCO Project.”


Nichols, David A., Canadian Department of Foreign Affairs and Int’l Trade, $9,509, “2007-08 Canadian Studies Program Enhancement Grant.”

Nutsch, Abbey L., Getty, Kelly J. K. (Food Science Institute), Kastner, Curtis L. (Food Science Institute), Kastner, Justin J. (Diagnostic Medicine/Pathobiology), and Retzlaff, Deanna D. (Dean of Continuing Education), US Department of Homeland Security, $133,508, “Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense.”

Odde, Kenneth G., Kansas Beef Council, $100,000, “Support of Regents Distinguished Professorship in Animal Sciences.”


Stevenson, Jeffrey S., Schering-Plough Animal Health Corporation, $55,566, “Regression of Corpora Lutea in Response to Estrumate or Lutalyse.”

Stevenson, Jeffrey S., Select Sires, $4,704, “Pregnancy Losses in Dairy Cattle.”

Stevenson, Jeffrey S., Select Sires, $10,000, “Reducing Embryo Losses in Cattle.”

Tigemeyer, Evan C., and Bradford, Barry J., American Feed Industry Association, “Assessing the Ability of Molasses to Prevent Milk Fat Depression from Distillers Grains and Solubles.”

Tigemeyer, Evan C., and Bradford, Barry J., Lonza, Inc., $47,820, “Pharmacological Doses of Nicotinic Acid for Cattle.”

Tokach, Michael D., DeRouche, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodhand, Robert D., and Nelssen, Jim L., Hill’s Pet Nutrition, Inc., “Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/Glycine, and Amino Acid Level, on Osteochondrosis in Pigs.”


14


ENTOMOLOGY

Beeman, Richard W., Kanost, Michael R. (Biochemistry), and Kramer, Karl J. (Biochemistry), National Science Foundation, $522,609, “Developmental Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development.”

Cloyd, Raymond A., Ohio Floriculture Association, $9,600, “Ohio Floriculture Association Fellowship.”

Cloyd, Raymond A., Rutgers University, $5,000, “IR-4 North Central Region Field Trials - 2007.”

Dobesh, Sharon, and Nechols, James R., BASF Corporation, $2,000, “Efficacy of Termidor (Fipronil 0.06%) for Subterranean Termitic Control in Kansas When Applied as an Exterior Perimeter/Localized Interior Treatment.”

Dobesh, Sharon, US Department of Agriculture, $337,216, “Integrated Pest Management (Formula Funds).”

Dobesh, Sharon, US Department of Agriculture, $24,385, “Pesticide Safety Education Program.”

Harvey, Tom L., Martin, Terry J. (Agricultural Research Center-Hays), and Seifers, Dallas L. (Agricultural Research Center-Hays), Kansas Wheat Commission, $13,965, “Kansas Dual Purpose Pest Resistant White Wheats.”

Marcus, Daniel C., US Department of Health and Human Services, $60,322, “Epithelial Function in Health and Disease.”


McConnell, Brian P., Monsanto Company, $7,300, “Soybean Aphid Biotype Summer Study.”

DEAN OF AGRICULTURE AND DIRECTOR OF AES

DEAN OF AGRICULTURE AND DIRECTOR OF AES

Knapp, Mary C., Das, Sanjoy (Electrical and Computer Engineering), Hsu, William H. (Computing and Information Sciences), Roe, Judith L. (Grain Science and Industry), and Welch, Stephen M. (Agronomy), National Science Foundation, “Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments.”


COMMUNICATIONS


Terry, Roger V., University of Nebraska, $32,413, “Provide Leadership for the Communication and Technology Unit.”
Michaud, John P., National Sunflower Association, $11,005, “Mitigation of Yield Losses to Dectes texanus in Rained Sunflowers.”

Minton, J. Ernest, US Department of Agriculture, $1,650, “USDA/ARS Research Support Agreement #58-5430-8-806.”

Minton, J. Ernest, US Department of Agriculture, $12,387, “USDA/ARS Research Support Agreement #58-5430-8-807.”

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


Reese, John C., Schapaugh Jr, William T. (Agronomy), Sloderbeck, Phillip E. (Southwest Area Office), Smith, C. Michael, and Whitworth, Robert “Jeff” J., Kansas Soybean Commission, $24,000, “Integrated Pest Management of the Soybean Aphid in Kansas.”

Reese, John C., Cloyd, Raymond A., Whitworth, Robert “Jeff” J., and Wilde, Gerald E., Multisponsor, “Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage.”

Reese, John C., and Prasad, P. V. Var (Agronomy), North Central Soybean Research Program, $81,639, “Soybean Responses to Soybean Aphids.”

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

Smith, C. Michael, Reese, John C., Schapaugh Jr, William T. (Agronomy), Sloderbeck, Phillip E. (Southwest Area Office), and Whitworth, Robert “Jeff” J., Kansas Soybean Commission, “Integrated Pest Management of the Soybean Aphid in Kansas.”

Smith, C. Michael, Fellers, John P. (Plant Pathology), and Whitfield, Anna E. (Plant Pathology), Kansas Wheat Commission, $16,920, “Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm.”

Whitworth, Robert “Jeff” J., Reese, John C., Schapaugh Jr, William T. (Agronomy), Sloderbeck, Phillip E. (Southwest Area Office), and Smith, C. Michael, Kansas Soybean Commission, “Integrated Pest Management of the Soybean Aphid in Kansas.”

Whitworth, Robert “Jeff” J., Cloyd, Raymond A., Reese, John C., and Wilde, Gerald E., Multisponsor, “Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage.”


Wilde, Gerald E., Cloyd, Raymond A., Reese, John C., and Whitworth, Robert “Jeff” J., Multisponsor, $103,575, “Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage.”

Zurek, Ludek, Akhunov, Eduard D. (Plant Pathology), Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A. (Plant Pathology), Gill, Bikram S. (Plant Pathology), Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Nelson, James C. (Plant Pathology), White, Frank F. (Plant Pathology), and Yu, Jianming (Agronomy), Kansas State University, $170,000, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

Zurek, Ludek, and Broce, Alberto B., Multisponsor, “Methods for Control of Livestock Insects.”

Zurek, Ludek, US Department of Health and Human Services, $100,000, “West Nile Surveillance in the State of Kansas.”

FOOD SCIENCE INSTITUTE


GRAIN SCIENCE AND INDUSTRY


Alavi, Sajid, Pepsico International, $37,880, “Memorandum of Agreement.”
Alavi, Sajid. US Department of Agriculture, $44,946, “Norman E. Borlaug International Agricultural Science and Technology Fellows Program.”

Alavi, Sajid. US Department of Agriculture, $50,000, “Novel Whey Protein and Fruit-Based Expanded Snacks Using Extrusion Processing.”


Bhadiraju, Subramanyam. Multisponsor, $50,000, “Grain Science.”


Howard, John E., Maier, Dirk E., and McFall, Kendall L., Colorado Wheat Administrative Committee, $10,000, “International Grain Project Wheat Advisory Board.”

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

Howard, John E., Kansas Soybean Commission, $100,000, “Market Development Grant - International Grains Program.”

Howard, John E., Maier, Dirk E., and McFall, Kendall L., Kansas Wheat Commission, $100,000, “Market Development Grant - International Grains Program Support Project.”

Howard, John E., Maier, Dirk E., and McFall, Kendall L., Nebraska Wheat Board, $15,000, “International Grains Program Wheat Advisory Board.”

Howard, John E., Oklahoma Wheat Commission, $15,000, “International Grains Program Wheat Advisory Board.”

Howard, John E., Oklahoma Wheat Commission, $15,000, “International Grains Program Wheat Advisory Board.”


Horticulture, Forestry and Recreation Resources


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

Bremer, Dale J., Fry, Jack D., Griffin, Jason, and Keeley, Steven J., Multi sponsor, “Turfgrass Investigations.”


Carey, Edward E., Pakistan Higher Education Commission, $3,500, “Visiting Scholar Bench Fee.”


Carey, Edward E., Dziewa ltowski, David A. (Community Health Institute), and Shoemaker, Candice A., US Department of Agriculture, “Integrating School Programs, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption, and Physical Activity.”


Fagerness, Matthew J., Fry, Jack D., and Keeley, Steven J., National Turfgrass Federation, “Turfgrass Testing.”

Fry, Jack D., Bremer, Dale J., Griffin, Jason, and Keeley, Steven J., Multi sponsor, $88,500, “Turfgrass Investigations.”

Fry, Jack D., Fagerness, Matthew J., and Keeley, Steven J., National Turfgrass Federation, $5,000, “Turfgrass Testing.”


Janke, Rhonda R., US Department of Agriculture, $19,993, “Student Farm Teaches Sustainable Farming and Business Skills.”


Keeley, Steven J., Bremer, Dale J., Fry, Jack D., and Griffin, Jason, Multi sponsor, “Turfgrass Investigations.”

Keeley, Steven J., Fagerness, Matthew J., and Fry, Jack D., National Turfgrass Federation, “Turfgrass Testing.”

Mattson, Richard H., Harvest Greenhouse and Garden Center, $3,640, “Graduate Research (Fellowship).”

Park, Sung hun, National Horticultural Research Institute, Republic of Korea, $120,000, “Biotechnology for improving nutritional quality of horticultural crops: Identification and functional characterization of genes regulating biosynthesis and accumulation of micronutrients in vegetable crops.”

Reid, William R., Kansas Nut Growers Association, $1,000, “Pecan Cultivar Evaluation.”

Reid, William R., University of Missouri, $8,672, “Missouri Pecan Growers.”


St John, Rodney A., Gwirtz, Jeffrey A. (Grain Science and Industry), McKinney, Leland (Grain Science and Industry), Ricketts, Mitchell S. (Agricultural Experiment Station), and Stevens, Alan B. US Department of Labor, “Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses.”


Stevens, Alan B., Gwirtz, Jeffrey A. (Grain Science and Industry), McKinney, Leland (Grain Science and Industry), Ricketts, Mitchell S. (Agricultural Experiment Station), and St John, Rodney A., US Department of Labor, $38,918, “Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses.”


Shi, Yong Cheng, and Wang, Donghai (Biological and Agricultural Engineering), Kansas Corn Commission, $15,317, “Developing High Solids Enzyme Conversion of Corn Starches and Corn Flours to Reduce the Cost in Ethanol Production.”


Sun, X. Susan, PolyOne Corporation, $15,000, “Biocomposites Derived from Renewable Materials.”

Sun, X. Susan, and Wang, Donghai (Biological and Agricultural Engineering), US Department of Defense, $35,000, “Biodegradable Lightweight Fiberboard for Packaging Applications.”

Vadlanli, Praveen V., Prasad, P. V. Vara (Agronomy), Rozeeboom, Kraig L. (Agronomy), and Yu, Jianming (Agronomy), Kansas Grain Sorghum Commission, $9,900, “Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production.”

Vadlanli, Praveen V., MeadWestvaco Corporation -North Carolina, $55,000, “Innovative Bioprocessing of Lignocellulosic Biomass for High Value Products.”

Vadlanli, Praveen V., and Madl, Ronald L., NutraCea, $15,780, “Rice Bran as a Nutrient Source to Enhance Ethanol Fermentation Efficiency, Feasibility Studies.”

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


Hargrove, William L., Kansas Water Office, $150,000, “Kansas Water Resources Institute Project Grant Funding, Kansas Water Office Contract Number 08-0128.”

Hargrove, William L., Fick, Walter H. (Agronomy), Goodin, Douglas G. (Geography), Ham, Jay M. (Agronomy), Harrington Jr, John A. (Geography), and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, $89,464, “Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains.”

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

Hargrove, William L., Mankin, Kyle R. (Agricultural Economics), Nejadhashemi, Amirpouyan (Biological and Agricultural Engineering), and Najafpour, Maryam (Agricultural Economics), US Department of the Interior, $92,335, “Kansas Water Resources Research Institute.”


Hargrove, William L., Barnes, Philip L. (Biological and Agricultural Engineering), Devlin, Daniel L. (Agriculture and Natural Resources), Leatherman, John C. (Agricultural Economics), Mankin, Kyle R. (Agronomy), and Pierzynski, Gary M. (Agronomy), US Environmental Protection Agency, $205,676 (includes $25,000 from Cooperator Support), “KS WRAPS KSU SFY 08 Technical Assistance Services.”


Mankin, Kyle R., US Environmental Protection Agency, $8,181 (includes $781 from Cooperator Support), “Big Hill Creek/Big Hill Lake Watershed Assessment.”

**NORTHWEST RESEARCH EXTENSION CENTER**

Aiken, Robert M., Kastens, Terry (Agricultural Economics), Kluitenberg, Gerard J. (Agronomy), Maddux, Larry D. (Agronomy), Mengel, David B. (Agronomy), Schlegel, Alan J. (Southwest Research Extension Center), and Stone, Loyd R. (Agronomy), Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”

Aiken, Robert M., and Holleman, Kenneth D. (Agricultural Research Center-Hays), and Prasad, P. V. Vara (Agronomy), Kansas Grain Sorghum Commission, “Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance.”

Aiken, Robert M., and Olson, Brian L. (Northwest Area Office), Kansas Wheat Commission, $7,800, “Intensive Wheat Production in Northwestern Kansas.”

Aiken, Robert M., Multisponsor, $9,250, “Sunflower Investigations.”


Lamm, Freddie R., Alam, Mahbub U. (Biological and Agricultural Engineering), Brouk, Micheal J. (Animal Sciences and Industry), Golden, Billy B. (Agricultural Economics), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Stone, Loyd R. (Agronomy), US Department of Agriculture, $55,625, “New Water Management Technologies to Sustain Rural Economics - KSU.”

**OFFICE OF ACADEMIC PROGRAMS**

PLANT PATHOLOGY

Akhunov, Eduard D., Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A., Gill, Bikram S., Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Nelson, James C., White, Frank F., Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, $170,000, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

Akhunov, Eduard D., Kansas Wheat Commission, $30,000, “Utilization of Massively Parallel 454 Sequencing Technology for Sequencing the BAC Contig of the Wheat Chromosome 3A Spanning the Agronomic and Quality Gene Loci.”


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

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

Bockus, William W., Multisponsor, $8,000, “Seed Treatment.”


Bockus, William W., US Department of Agriculture, $52,000, “Mapping and Deployment of QTL for Wheat Resistance to Fusarium Head Blight (FHB).”


DeWolf, Erick D., Multisponsor, $14,200, “Winter Wheat Seed Treatment Tests.”


DeWolf, Erick D., US Department of Agriculture, $59,836, “Preparing for Wheat Stem Rust Races TTKSK (Ug99) and TTKST: Enhancement of the National Surveillance Network and Development of Management Recommendations.”


Fellers, John P., Smith, C. Michael (Entomology), and Whitfield, Anna E., Kansas Wheat Commission, “Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm.”


Friebe, Bernd, Kansas Crop Improvement Association, $6,400, “Transfer of New Sources of Barley Yellow Dwarf Resistance from Haynaldia villosa to Adapted Kansas Winter Wheats.”

Garrett, Karen A., Akhunov, Eduard D., Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Gill, Bikram S., Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Nelson, James C., White, Frank F., Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”


Gill, Bikram S., Akhunov, Eduard D., Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A., Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Nelson, James C., White, Frank F., Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

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


Gill, Bikram S., and Li, Wanlong, US Department of Agriculture, $400,000, “Genetic Dissection of the Lignocellulosic Pathway of Wheat to Improve Biomass Quality of Grasses as a Feedstock for Biofuels.”

Jardine, Douglass J., Multisponsor, $3,000, “Barley Foliar Fungicide and Seed Treatment Tests.”


Jardine, Douglass J., US Department of Agriculture, $10,000, “Managing Frogeye Leaf Spot, Charcoal Rot and Foliar Diseases in the North Central Region.”

Kennelly, Megan, Multisponsor, $30,067, “Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops.”


Leslie, John F., Kansas State University Foundation, $25,986, “Non-Conventional Plant Improvement Technology.”


Leslie, John F., Multisponsor, $400, “Fusarium Research.”


Li, Yanlong, and Gill, Bikram S., US Department of Agriculture, “Genetic Dissection of the Lignocellulosic Pathway of Wheat to Improve Biomass Quality of Grasses as a Feedstock for Biofuels.”


Nelson, James C., Akhunov, Eduard D., Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A., Gill, Bikram S., Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeev Kumar (Diagnostic Medicine/Pathobiology), White, Frank F., Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”


Stack, James P., US Department of Agriculture, $870,000, “Great Plains Diagnostic Network.”

Stack, James P., US Department of Agriculture, $10,000, “Plant Diagnostic Laboratories for Plant Disease and Pest Diagnosis and Surveillance (National Network of Diagnostic Centers).”

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

Todd, Timothy C., Long Jr, James H. (Southeast Agricultural Research Center), Schapaugh Jr, William T. (Agronomy), and Trick, Harold N., Kansas Soybean Commission, $56,250, “Soybean Variety and Germplasm Improvement.”

Todd, Timothy C., Multisponsor, $50,000, “Nematode and Soybean Research.”

Todd, Timothy C., Blair, John M. (Biology), Herman, Michael A. (Biology), and Jones, Kenneth L. (Biology), National Science Foundation, “Ecological Genomics of Soil Nematode Community Responses: Model and Non-Model Approaches.”

Trick, Harold N., Buschman, Larry L. (Southwest Research Extension Center), Schapaugh Jr, William T. (Agronomy), Sloderbeck, Phillip E. (Southwest Area Office), and Smith, C. Michael (Entomology), Kansas Soybean Commission, $3,500, “Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer.”

Trick, Harold N., Schapaugh Jr, William T. (Agronomy), and Todd, Timothy C., Kansas Soybean Commission, $107,072, “Enhancement of Soybean through Genetic Engineering.”

Trick, Harold N., Long Jr, James H. (Southeast Agricultural Research Center), Schapaugh Jr, William T. (Agronomy), and Todd, Timothy C., Kansas Soybean Commission, “Soybean Variety and Germplasm Improvement.”


Trick, Harold N., United to Support Metabolic Disorders, Inc., $5,000, “Phenylalanine-Free Protein Production in Soybean.”


Valent, Barbara S., National Science Foundation, $12,115, “Community Annotation Database for Magnaporthiporgrisea and its Interactions with Rice.”

Valent, Barbara S., US Department of Agriculture, $15,000, “Genetic Mechanism Underpinning Race Variation in Magnaporthe grisea.”

White, Frank F., Akhunov, Eduard D., Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A., Gill, Bikram S., Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeev Kumar (Diagnostic Medicine/Pathobiology), White, Frank F., Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

White, Frank F., and Yang, Bing, National Science Foundation, “Molecular Basis of Disease: The Role of the Type III Effector PthXo6 During Bacterial Colonization of Rice.”


Whitfield, Anna E., US Department of Agriculture, $399,500, “Molecular Determinants of Tomato Spotted Wilt Virus Glycoprotein Gn Involved in Virus Acquisition by Thrips and Transmission to Plant Hosts.”

Yang, Bing, and White, Frank F., National Science Foundation, $150,000, “Molecular Basis of Disease: The Role of the Type III Effector PthXo6 During Bacterial Colonization of Rice.”

SOUTHEAST AGRICULTURAL RESEARCH CENTER

Kelley, Kenneth W., and Sweeney, Daniel W., Kansas Corn Commission, “Optimizing Seed Planting Rates and Fertilizer Placement to Improve Strip-Till and No-Till Corn Production.”

Kelley, Kenneth W., Multisponsor, $4,000, “Weed Control in Farm Crops.”


Moyer, Joseph L. and Sweeney, Daniel W., Multisponsor, “Soil Fertility and Management Investigations in Southeastern Kansas.”

Sweeney, Daniel W. and Kelley, Kenneth W., Kansas Corn Commission, $8,000, “Optimizing Seed Planting Rates and Fertilizer Placement to Improve Strip-Till and No-Till Corn Production.”

Sweeney, Daniel W. and Moyer, Joseph L., Multisponsor, $2,000, “Soil Fertility and Management Investigations in Southeastern Kansas.”

**SOUTHWEST RESEARCH EXTENSION CENTER**

Buschman, Larry L. Schapaugh Jr., William T. (Agronomy), Sloderbeck, Phillip E. (Southwest Area Office), Smith, C. Michael (Entomology), and Trick, Harold N. (Plant Pathology), Kansas Soybean Commission, $28,000, “Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer.”

Currie, Randall S., Multisponsor, $32,400, “Weed Control Research in Southwest Kansas.”

Currie, Randall S., Pioneer Hi-Bred International, Inc., $6,000, “Field Trial Agreement.”


Schlegel, Alan J., Kansas Department of Wildlife and Parks, $18,000, “Impact of Wheat Stubble Height on Subsequent Crops and Wildlife Habitat in Western Kansas.”

Schlegel, Alan J., and Holman, Johnathon D., Multisponsor, $25,200, “Soil Fertility and Soil Management Research for Western Kansas.”


**KANSAS COOPERATIVE EXTENSION SERVICE**

**AGRICULTURE AND NATURAL RESOURCES**

Beckman, Jana J., and Murphy, James P., US Department of Agriculture, “Kansas SARE Professional Development Program.”


Murphy, James P., US Department of Agriculture, $431,039, “Kansas Agricultural Mediation Service.”

Murphy, James P., and Beckman, Jana J., US Department of Agriculture, $50,000, “Kansas SARE Professional Development Program.”

Murphy, James P., US Department of Agriculture, “Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA).”

Murphy, James P., US Department of Agriculture, $60, “Memorandum of Understanding between Kansas Agricultural Mediation Services and Kansas Natural Resources Conservation Service.”

Murphy, James P., US Department of Agriculture, $55,145, “NCR-SARE Regional Professional Development Program.”

Murphy, James P., US Department of Agriculture, $93,061, “Renewable Resources Extension Act Program.”

**DIRECTOR OF COOPERATIVE EXTENSION**

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., $101,174, “Kansas Agriculture and Rural Leadership, Inc.”

Murphy, James P., US Department of Agriculture, $400, “Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA).”

**EXTENSION FAMILY AND CONSUMER SCIENCES**

Peters, Paula, Fitzgerald, Karen D. (Human Nutrition), and Hudson, Karen S. (Human Nutrition), US Department of Agriculture, $3,343,958 (includes $974,716 from Kansas Counties), “Kansas Food Stamp Nutrition Education Plan.”

**4-H YOUTH DEVELOPMENT**

Fink, Carol J., and Johannes, Elaine M. (School of Family Studies and Human Services), US Department of Agriculture, $135,300, “New Communities Project - Kansas Teen Leadership for Physically Active Lifestyles.”
HUMAN NUTRITION

KANSAS FOREST SERVICE
Aslin, Raymond G., US Department of Agriculture, $140,875 (includes $15,875 from In-Kind Funds), “Consolidated Payment Grant 2007.”
Aslin, Raymond G., US Department of Agriculture, $68,332, “Forest Inventory Analysis - Kansas Forest Inventory.”
Aslin, Raymond G., US Department of Agriculture, $64,452, “Inventory of the Forest Resources of Kansas.”
Aslin, Raymond G., US Department of Agriculture, $2,500 (includes $500 from Cooperator Support), “Marketing Wood Products Grant.”
Aslin, Raymond G., US Department of Agriculture, $20,000, “Natural Resources Conservation Service Technical Service Provider.”

KANSAS CENTER FOR AGRICULTURAL RESOURCES & THE ENVIRONMENT / KANSAS WATER RESOURCE RESEARCH INSTITUTE
Hargrove, William L., US Environmental Protection Agency, $5,146 (includes $5,146 from Volunteer Support), “KS WRAPS: Kanopolis Reservoir, Big Creek and Middle Smokey Hill River Watersheds.”

NORTHEAST AREA OFFICE
Duncan, Stewart R., US Department of Agriculture, $4,500, “Extension Cotton Community of Practice.”

STORAGE AREA OFFICE
Olson, Brian L., Barkley, Andrew P. (Agricultural Economics), and Dhuyvetter, Kevin C. (Agricultural Economics), Kansas Crop Improvement Association, “Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas.”
Olson, Brian L., and Aiken, Robert M. (Northwest Research Extension Center), Kansas Wheat Commission, $5,200, “Intensive Wheat Production in Northwest Kansas.”
Olson, Brian L., Peterson, Dallas E. (Agronomy), Stahman, Phillip W. (Agricultural Research Center-Hays), and Thompson, Curtis R. (Agronomy), National Sunflower Association, $1,500, “Sunflower Response to KIH-485.”

NUTRITION PROGRAM
Hudson, Karen S., and Peters, Paula, United Methodist Health Ministry Fund, $18,000, “Healthy Hispanic Families.”
Peters, Paula, and Hudson, Karen S., United Methodist Health Ministry Fund, “Healthy Hispanic Families.”

SOUTHWEST AREA OFFICE
Alam, Mahbub U., and Rogers, Danny H. (Biological and Agricultural Engineering), Kansas Water Office, “K-State Mobile Irrigation Lab.”
Bolton, Debra, Bopp, Melissa (Community Health Institute), Fallon, Elizabeth A. (Community Health Institute), and Kaczynski, Andrew (Community Health Institute), Sunflower Foundation, “Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment.”
Sloderbeck, Phillip E., Buschman, Larry L. (Southwest Research Extension Center), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), and Trick, Harold N. (Plant Pathology), Kansas Soybean Commission, “Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer.”
Sloderbeck, Phillip E., Reese, John C. (Entomology), Schapaugh Jr, William T. (Agronomy), Smith, C. Michael (Entomology), and Whitworth, Robert “Jeff” J. (Entomology), Kansas Soybean Commission, “Integrated Pest Management of the Soybean Aphid in Kansas.”
BIoCHEmISTRY


Gorman, Maureen J., Hua, Duy H. (Chemistry), and Kanost, Michael R., US Department of Health and Human Services, “Function of Laccases in Anopheles gambiae.”


Kanost, Michael R., Beeman, Richard W. (Entomology), and Kramer, Karl J., National Science Foundation, $490,503, “Collaborative Research: Sclerotization Mechanisms that Control Physical Properties of Insect Cuticle.”


Kramer, Karl J., Beeman, Richard W. (Entomology), and Kanost, Michael R., National Science Foundation, “Collaborative Research: Sclerotization Mechanisms that Control Physical Properties of Insect Cuticle.”


Reeck, Gerald R., Welti, Ruth (Biology), and Zufferey, Rachel, US Department of Health and Human Services, “Phosphatidylcholine Biosynthesis and Anti-Cancer Agent Miltefosine (mentor).”

Takeimoto, Dolores J., and Hua, Duy H. (Chemistry), Kansas City Area Life Sciences Institute, $30,000, “Control of Gap Junctions as a Neuro-Protective Therapy.”

Takeimoto, Dolores J. and Wei, Qize, US Department of Health and Human Services, “MyoGEF in Cancer Cell Migration and Mouse Embryogenesis (Mentor).”

Takeimoto, Dolores J., US Department of Health and Human Services, $45,500, “Protein Kinase C in the Lens.”


Wei, Qize, US Department of Health and Human Services, $10,000, “K-INBRE Faculty Scholar Award.”

Wei, Qize, US Department of Health and Human Services, $289,566, “MyoGEF in Cancer Cell Migration and Mouse Embryogenesis.”

Wei, Qize, and Takeimoto, Dolores J., US Department of Health and Human Services, $23,499, “MyoGEF in Cancer Cell Migration and Mouse Embryogenesis (Mentor).”

Zolkiewski, Michal, Dystonia Medical Research Foundation, $50,000, “Research Services Agreement.”

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

Zufferey, Rachel, Reeck, Gerald R., and Welti, Ruth (Biology), US Department of Health and Human Services, $13,074, “Phosphatidylcholine Biosynthesis and Anti-Cancer Agent Miltefosine (mentor).”

Zufferey, Rachel, and Welti, Ruth (Biology), US Department of Health and Human Services, $149,431, “Phosphatidylcholine Biosynthesis and Anticancer Agent Miltefosine.”

BIOLOGY


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


Blair, John M., Dodds, Walter K., Hartnett, David C., Joern, Anthony, and Nippert, Jesse B., National Science Foundation, $820,000, “Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change.”

Blair, John M., Dodds, Walter K., Harrington Jr, John A. (Geography), and Steward, David R. (Civil Engineering), National Science Foundation, “Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains.”


Chapes, Stephen K., National Aeronautics and Space Administration, $18,000, “Differentiation of Bone Marrow Macrophages in Space.”


Chapes, Stephen K., US Department of Health and Human Services, $39,000, “Three Star Trainees: Cain, Madgwick, Roberts.”

Clem, Rollie J., and Michel, Kristin, US Department of Health and Human Services, $35,000, “Core Facility Support - Walk-In Environmental Chamber.”


Cully, Jr., Jack F., and Wisely, Samantha, US Department of the Interior, “Biogeography and Molecular Epidemiology of the PRNP Gene in Kansas.”


Denell, Robin E., National Science Foundation, $140,000, “Evolution of Genetic Mechanisms Controlling Developmental Fate.”

Denell, Robin E., and Beeser, Alexander E., US Department of Health and Human Services, “Identification of in Vivo Pak 1 Protein Kinase Inhibitors (Mentor).”

Dodds, Walter K., Blair, John M., Hartnett, David C., Joern, Anthony, and Nipper, Jesse B., National Science Foundation, “Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change.”

Dodds, Walter K., Blair, John M., Harrington Jr, John A. (Geography), and Steward, David R. (Civil Engineering), National Science Foundation, $1,159,412, “Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains.”

Ferguson, Carolyn J., and Mayfield, Mark H., National Science Foundation, $139,458, “Computerization of the Kansas State University Herbarium: Digitizing a Critical Biodiversity Collection for the Great Plains.”


Fleming, Sherry D., US Department of Health and Human Services, $10,000, “K-INBRE Faculty Scholar Award.”


Hancock, Lynn E., American Heart Association, Midwest Affiliate, $71,500, “Role of Proteases in Pathogenesis of Enterococcus faecalis endocarditis.”

Hartnett, David C., and Joern, Anthony, Kansas State University, “Enhancing Excellence in Grassland Ecology: An Institute for Grassland Studies at KSU.”

Hartnett, David C., Blair, John M., Dodds, Walter K., Joern, Anthony, and Nipper, Jesse B., National Science Foundation, “Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change.”

Hartnett, David C., US Department of Agriculture, $467,672 (includes $68,288 from Oklahoma State University), “Bud Bank Demography: A New Approach to Assessment of Rangeland Health and Response to Environmental Change.”


Hirt, Helmut, Hosni, Mohammad H. (Mechanical and Nuclear Engineering), Jones, Byron W. (Institute for Environmental Research), and Smith, Andrew T. (Salina Aviation), Kansas State University, $192,000, “Aircraft Cabin Environmental Security Proposal.”

Joern, Anthony, and Hartnett, David C., Kansas State University, $515,000, “Enhancing Excellence in Grassland Ecology: An Institute for Grassland Studies at KSU.”

Joern, Anthony, Blair, John M., Dodds, Walter K., Hartnett, David C., and Nipper, Jesse B., National Science Foundation, “Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change.”
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Investigator(s)</th>
<th>Funding Agency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recruitment of Fishes in the Kansas River.</td>
<td>Paukert, Craig</td>
<td>US Department of the Interior</td>
<td>$40,000</td>
</tr>
<tr>
<td>Status and Trends of Rare and Endangered Missouri River Fishes.</td>
<td>Paukert, Craig</td>
<td>US Department of the Interior</td>
<td>$27,071</td>
</tr>
<tr>
<td>Evaluation of Sampling Protocols Used to Determine the Status of Fishes in</td>
<td>Paukert, Craig</td>
<td>Rocky Mountain Elk Foundation</td>
<td>$4,473</td>
</tr>
<tr>
<td>Long Term Sustainability Study of Elk in Kansas.</td>
<td>Paukert, Craig</td>
<td>Cooperative Fish and Wildlife Research Unit.</td>
<td></td>
</tr>
<tr>
<td>Effects of Zebra Mussels on Invertebrate and Fish Communities.</td>
<td>Paukert, Craig</td>
<td>Kansas Department of Wildlife and Parks</td>
<td>$30,000</td>
</tr>
<tr>
<td>Establishment and Operation of the Kansas Cooperative Fish and Wildlife</td>
<td>Paukert, Craig</td>
<td>Kansas Department of Wildlife and Parks</td>
<td>$40,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td>$109,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td></td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$25,000</td>
</tr>
<tr>
<td>Biology Research Career Development Core.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$269,994</td>
</tr>
<tr>
<td>Recruitment Package - Kristin Michel.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$253,630</td>
</tr>
<tr>
<td>Evolution of Wild Sunflowers.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$45,500</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td>$109,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td></td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$25,000</td>
</tr>
<tr>
<td>Biology Research Career Development Core.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$269,994</td>
</tr>
<tr>
<td>Recruitment Package - Kristin Michel.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$253,630</td>
</tr>
<tr>
<td>Evolution of Wild Sunflowers.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$45,500</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td>$109,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td></td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$25,000</td>
</tr>
<tr>
<td>Biology Research Career Development Core.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$269,994</td>
</tr>
<tr>
<td>Recruitment Package - Kristin Michel.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$253,630</td>
</tr>
<tr>
<td>Evolution of Wild Sunflowers.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$45,500</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td>$109,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td></td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$25,000</td>
</tr>
<tr>
<td>Biology Research Career Development Core.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$269,994</td>
</tr>
<tr>
<td>Recruitment Package - Kristin Michel.</td>
<td>Spooner, Brian S.</td>
<td>Kansas State University Foundation</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$253,630</td>
</tr>
<tr>
<td>Evolution of Wild Sunflowers.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$45,500</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Identification of Transcriptional Targets of Intermediate Neuroblasts Defect</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Role of RNA-Binding Initiation Factors in Protein Synthesis.</td>
<td>Spooner, Brian S.</td>
<td>US Department of Health and Human Services</td>
<td>$26,000</td>
</tr>
<tr>
<td>Effects of Wind Power Development on Greater Prairie Chickens.</td>
<td>Sandrock, Brett K., and Wisely, Samantha</td>
<td>US Department of Energy</td>
<td>$109,000</td>
</tr>
</tbody>
</table>
**CHEMISTRY**

Aakeroy, Christer B., US Department of Health and Human Services, $73,000, “Molecular Co-Crystals: New Solid Forms for Anti-Cancer Drugs.”

Bossmann, Stefan, American Chemical Society, $90,000, “Bioinspired Hybrid Systems for the Photocatalytic Generation of Solar Hydrogen and Fuels.”

Bossmann, Stefan, Chikan, Viktor, and Smith, Paul E., US Department of Health and Human Services, $121,180, “Targeting Cancer with Protein-Nanoparticle Complexes.”

Chikan, Viktor, Bossmann, Stefan, and Smith, Paul E., US Department of Health and Human Services, “Targeting Cancer with Protein-Nanoparticle Complexes.”

Colbertson, Christopher T., US Department of Health and Human Services, $90,000, “High Throughput Measurement of Cellular Signaling.”

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research and Dean of Graduate School), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $61,500, “Urban Operations Laboratory.”


Hollingsworth, Mark D., National Science Foundation, $170,000, “Synthesis and Mechanistic Studies of New Series of Ferroelastic and Ferroelectric Crystals.”


Hua, Duy H., and Takemoto, Dolores J. (Biochemistry), Kansas City Area Life Sciences Institute, $20,000, “Control of Gap Junctions as a Neuro-Protective Therapy.”

Hua, Duy H., National Science Foundation, $120,000, “Nanotubes: Synthesis and Applications.”


Hua, Duy H., Gorman, Maureen J. (Biochemistry), and Kanost, Michael R. (Biochemistry), US Department of Health and Human Services, $50,831, “Function of Laccases in Anopheles gambiae.”

Hua, Duy H., US Department of Health and Human Services, $261,009, “Inhibition of Alzheimer’s Beta-Amyloid Fibril Formation.”

Hua, Duy H., Tamura, Masaaki (Anatomy and Physiology), and Troyer, Deryl L. (Anatomy and Physiology), US Department of Health and Human Services, $97,226, “Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer.”

Jankowiak, Ryszard J., National Science Foundation, $18,250, “Use of Dynamic Electric Field Gradients for the Crystallization of Proteins.”


Li, Jun, and Higgins, Daniel A., Canadian Government, $120,000, “Biochip Testing.”

Smith, Paul E., US Department of Health and Human Services, $219,000, “Accurate Simulations of Peptide Aggregation.”

Smith, Paul E., Bossmann, Stefan, and Chikan, Viktor, US Department of Health and Human Services, “Targeting Cancer with Protein-Nanoparticle Complexes.”

**COMMUNITY HEALTH INSTITUTE**


Dzwaltowski, David A., Sunflower Foundation, $38,751, “Girl Scouts Family Connection for Health Promotion - Ric Rosenkrantz.”

Dzwaltowski, David A., Carey, Edward E. (Horticulture, Forestry and Recreation Resources), and Shoemaker, Candice A. (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, $415,410, “Integrating Schools, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption, and Physical Activity.”


Kaczynski, Andrew, Bolton, Debra (Southwest Area Office), Bopp, Melissa, and Fallon, Elizabeth A., Sunflower Foundation, “Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment.”

**DEAN OF ARTS AND SCIENCES**

Montelone, Beth A., Douglas, Kimberly D. (Dean of Engineering), Dyer, Ruth A. (Office of the Provost), Freeman, Lisa C. (Anatomy and Physiology), and Spears, Jacqueline D. (Secondary Education), National Aeronautics and Space Administration, $4,200, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics.”

Montelone, Beth A., Dyer, Ruth A. (Office of the Provost), King, Terry S. (Dean of Engineering), Unger, Elizabeth A. (Vice Provost for Academic Services and Technology), and White, Stephen E., National Science Foundation, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”


Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), and Yahneke, Sally J. (Secondary Education), US Department of Education, $930,105 (includes $19,416 from Dodge City Community College, $20,266 from Garden City Community College, $19,386 from Seward Community College, $14,809 from USD 214 - Lyons, $26,842 from USD 383 - Manhattan, $14,580 from USD 443 - Dodge City, $15,060 from USD 457 - Garden City, and $10,507 from USD 475 - Geary County), “Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships.”


White, Stephen E., Dyer, Ruth A. (Office of the Provost), King, Terry S. (Dean of Engineering), Montelone, Beth A., and Unger, Elizabeth A. (Vice Provost for Academic Services and Technology), National Science Foundation, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

ECONOMICS

Babcock, Michael W., Kansas Department of Transportation, $35,000, “Impact of Kansas Ethanol Production on Kansas Transportation.”

Li, Dong, Kansas Health Institute, $15,961, “Health Issues for Children in Kansas - Bhavneet Walia.”

ENGLISH

Wood, Naomi J., Kansas Arts Commission, $3,300 (includes $150 from Clarifin Books and Copies, and $500 from Manhattan Public Library), “Molly Bang and the Art of Picture Books.”

GEODETICS

Goodin, Douglas G., National Science Foundation, $11,598, “Doctoral Dissertation Research: Detecting Anthropogenic Forest Disturbances and Understory Density for the Study of Hantavirus in Paraguay (Graduate Student - David Koch).”


Harrington Jr, John A., Blair, John M. (Biology), Dodds, Walter K. (Biology), and Steward, David R. (Civil Engineering), National Science Foundation, “Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains.”

Harrington Jr, John A., Fick, Walter H. (Agriculture), Goodin, Douglas G., Ham, Jay M. (Agriculture), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and Murphy, James P. (Agriculture and Natural Resources), US Department of Agriculture, “Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains.”


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

Hutchinson, J. M. Shaw, and Hutchinson, Stacy L. (Biological and Agricultural Engineering), US Department of the Interior, “Range and Training Lands Assessment on Fort Riley.”


HISTORY

Parillo, Mark P., Kansas State University Foundation, $15,000, “Institute for Military History and 20th Century Studies.”

Zschoche, Sue, Kenneth and Jean Davis, $30,000, “Kenneth Davis Professorship.”

JAMES R. MACDONALD LABORATORY


KINESIOLOGY

Barstow, Thomas J., Kobe Design University, $8,000, “Collaborative Research Agreement between Kansas State University and Kobe Design University.”
**Bopp, Melissa, Bolton, Debra** (Southwest Area Office), **Fallon, Elizabeth A.** (Community Health Institute), and **Kaczynski, Andrew** (Community Health Institute), Sunflower Foundation, $62,244, “Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment.”

**Dziewaltowski, David A.** Sunflower Foundation, $38,751, “Girl Scouts Family Connection for Health Promotion - Ric Rosenkranz.”

**Dziewaltowski, David A.,** US Department of Health and Human Services, $24,775, “Kansas Department of Health and Environment Tobacco Use Prevention Survey.”

**Musch, Timothy L., and Poole, David C.** (Anatomy and Physiology), Cytokinetics, Inc., $44,586, “Cytokinetics Project.”

**Poole, David C., and Musch, Timothy L.,** Cytokinetics, Inc., “Cytokinetics Project.”

**MATHMATICS**

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

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

**Castano-Bernard, Ricardo, and Soibelman, Yan S.,** National Science Foundation, $33,000, “NSF/CBMS Regional Conference in the Mathematical Sciences: Tropical Geometry and Mirror Symmetry, December 13-17, 2008.”

**Crane, Louis,** Foundational Questions Institute, $3,000, “Mini-Grant.”

**Crane, Louis,** Foundational Questions Institute, $52,813, “New Approach to Quantum Gravity, with Possible Applications to the Origin and Future of Life.”

**Fang, Xiang,** National Science Foundation, $106,631, “Commutative Algebraic Methods in Multivariable Operator Theory and Applications.”

**Lin, Zongzhu,** US Department of Defense, $29,696, “Problems in Representation Theory Related to Nilpotent Orbits.”


**MUSIC**

**Yu, Julie,** Master Teacher, Inc., $16,326, “Summer Choral Institute.”

**PHILOSOPHY**

**Glymour, Bruce D., Downey, Ronald G.** (Psychology), **Lara, Amy, Rintoul, David A.** (Biology), and **Weaver, Oliver L.** (Physics), National Science Foundation, $34,000, “Research Communications Ethics Project.”

**Lara, Amy, Downey, Ronald G.** (Psychology), **Glymour, Bruce D., Rintoul, David A.** (Biology), and **Weaver, Oliver L.** (Physics), National Science Foundation, “Research Communications Ethics Project.”

**PHYSICS**

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

**Bolton, Timothy A.,** National Science Foundation, $76,000, “PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector.”

**Bolton, Timothy A., Sidwell, Ronald A., Stanton, Noel R., and Von Toerne, Eckhard,** National Science Foundation, $12,000, “Quarknet.”

**Bolton, Timothy A.,** National Science Foundation, $8,500, “USCMS Teacher Fellowship Program.”


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

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

**Corwin, Kristan L.,** National Science Foundation, $17,000, “Fiber-Based Optical Frequency Standards Charaterized with Optical Frequency Combs.”

**Corwin, Kristan L., Rebello, Nobel S., and Washburn, Brian R.,** National Science Foundation, “Integrating Experimentation and Instrumentation in Upper-Division Physics.”

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


**Erickson, Larry E., Eckels, Steven J.** (Institute for Environmental Research), **Guijema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, $30,750, “Urban Operations Laboratory.”

**Esry, Brett D.,** National Science Foundation, $100,000, “Exploiting Algorithm and Hardware Improvements to Solve the Ultracold Few-Body Problem.”

**Esry, Brett D.,** National Science Foundation, $70,000, “Theoretical Investigations of Ultracold Few-Body Collisions.”


**Law, Bruce M.,** National Science Foundation, $144,500, “Materials World Network: Electric Field Induced Microfluidic Manipulation.”
Lin, Chii-Dong, National Science Foundation, $50,001, “Quantum Physics of He Near the Double Ionization Threshold—Quantum Chaos and Wannier Threshold Law.”


Rahman, Talat S., Hsu, William H. (Computing and Information Sciences), and Wallentine, Virgil E. (Computing and Information Sciences), National Science Foundation, $154,232, “Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models.”


Rebello, Nobel S., Corwin, Kristan L., and Washburn, Brian R., National Science Foundation, $149,663, “Integrating Experimentation and Instrumentation in Upper-Division Physics.”


Sorensen, Christopher M., Cabot Corporation, $18,745, “Aerosol Synthesis of Low Density High Surface Area Silica Materials: Silica Aerosol Gels.”

Sorensen, Christopher M., Cabot Corporation, $22,000, “Light Scattering Studies of Fumed Silica Morphology Changes in Suspension During Shear.”


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


Washburn, Brian R., Corwin, Kristan L., and Rebello, Nobel S., National Science Foundation, “Integrating Experimentation and Instrumentation in Upper-Division Physics.”


Weaver, Oliver L., Downey, Ronald G. (Psychology), Glymour, Bruce D. (Philosophy), Lara, Amy (Philosophy), and Rintoul, David A. (Biology), National Science Foundation, $33,000, “Research Communications Ethics Project.”

Weaver, Oliver L., and Corwin, Kristan L., National Science Foundation, $100,885, “REU Site: Laser-Matter Interactions on Atomic and Nanoscales.”

Zollman, Dean A., National Science Foundation, $70,020, “Undergraduate Science Course Reform Serving Pre-Service Teachers: Evaluation of a Faculty Professional Development Model.”

POLITICAL SCIENCE


PSYCHOLOGY

Downey, Ronald G., Glymour, Bruce D. (Philosophy), Lara, Amy (Philosophy), Rintoul, David A. (Biology), and Weaver, Oliver L. (Psychology), National Science Foundation, $33,000, “Research Communications Ethics Project.”

Frieman, Jerome, and Monaco, Gregory E., Great Plains Network Consortium, $180,648, “Funding for Director of Research - Great Plains Network.”

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


SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS


Powers, Angela, and Puntney, Linda S., Journalism Education Association, $656,180, “Establishment of the Journalism Education Association National Headquarters at Kansas State University.”

Puntney, Linda S., and Powers, Angela, Journalism Education Association, “Establishment of the Journalism Education Association National Headquarters at Kansas State University.”

SOCIOLGY, ANTHROPOLOGY, AND SOCIAL WORK

Britton, Dana M., Sociologists for Women in Society, $93,713, “Gender and Society Editorship.”


Roper, Donna C., US Department of the Interior, $29,972, “Continued Fieldwork and Analysis on Upper Republican Sites Harry Strunk Lake, Frontier County, Nebraska.”


**STATISTICS**


**COLLEGE OF BUSINESS ADMINISTRATION**

**ACCOUNTING**

Vruwink, David R., and Katz, Jeffrey P. (Management), Multisponsor, “MBA Practicum.”

**MANAGEMENT**

Katz, Jeffrey P., and Vruwink, David R. (Accounting), Multisponsor, $6,750, “MBA Practicum.”

**COLLEGE OF EDUCATION**

**DEAN OF EDUCATION**

Allen, David S., and Bennett, Andrew G. (Mathematics), US Department of Education, $58,000, “Infinite Mathematics Project.”

Flaherty, Roberta D., National Academic Advising Association, $1,165,566, “National Academic Advising Executive Office.”

Goodson, F. Todd, International Reading Association, Inc., $6,000, “Editorship of Journal of Adolescent and Adult Literacy.”

Goodson, F. Todd, US Department of Education, $43,000, “Flint Hills Writing Project.”

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, $124,748, “Kansas Foundation for Agriculture in the Classroom.”

Havlicek, Barbara J., Multisponsor, $9,817, “Council for Public School Improvement.”


Herrera, Socorro G., US Department of Education, $270,192, “Project MERIT.”

Herrera, Socorro G., US Department of Education, $258,672, “Project PEER.”


Herrera, Socorro G., USD 497, Lawrence, $19,233, “Hillcrest Elementary - Reading First Project.”


Kaif, Marilyn S., and Frey, Timothy (Special Education), US Department of Education, $22,500, “Continuous Improvement Grant for Special Education.”

Middendorf, B. Jan, and Thurston, Linda P., Kansas Board of Regents, $425,000, “Kan-ed Evaluation - Phase V.”

Middendorf, B. Jan, and Shuman, Cindy, Kansas Board of Regents, $35,000, “Kansas Board of Regents (KBOR) Research.”


Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), and Yahneke, Sally J. (Secondary Education), US Department of Education, $1,395,157 (includes $29,123 from Dodge City Community College, $30,400 from Garden City Community College, $29,078 from Seward Community College, $22,214 from USD 214 - Ulysses, $40,264 from USD 383 - Manhatta, $21,870 from USD 443 - Dodge City, $22,590 from USD 457 - Garden City, and $15,760 from USD 475 - Geary County), “Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships.”

Shuman, Cindy, and Middendorf, B. Jan, Kansas Board of Regents, “Kansas Board of Regents (KBOR) Research.”

Shuman, Cindy, National Science Foundation, $15,120, “Evaluation of Scale Up (University of Illinois at Chicago's NSF DR K-12).”


Spears, Jacqueline D., and Montelone, Beth A. (Dean of Arts and Sciences), National Science Foundation, $47,328, “Systematic Approach to Infusing Science Research into K-12 Classrooms.”


Thurston, Linda P., and Middendorf, B. Jan, Kansas Board of Regents, “Kan-ed Evaluation - Phase V.”


Thurston, Linda P., National Science Foundation, $32,224, “Evaluation of Epsilon Corps.”


Vontz, Thomas, Center for Civic Education, $66,687 (includes $14,495 from Center Administration), “2007 Kansas State University Institute for Social Studies Teachers: Teaching and Learning the United States Constitution.”


Vontz, Thomas, US Department of Education, $214,970, “Kansas - We the People: The Citizen and the Constitution.”


Zacharakis, Jeffrey T., Kansas Board of Regents, $11,900, “Focus Groups of Adult Learners from KS Adult Learning Centers.”
Zacharakis, Jeffrey T., and Procter, David E. (Center for Engagement and Community Development), North Central Regional Planning Commission, “Intellectual Knowledge and Technology Development.”

EDUCATIONAL LEADERSHIP
Scott, Susan M., and Tolar, Mary H., Corporation for National and Community Service, “Campus-Community Youth Service Corps.”
Tolar, Mary H., and Scott, Susan M., Corporation for National and Community Service, $3,000, “Campus-Community Youth Service Corps.”
Tolar, Mary H., Corporation for National and Community Service, $18,823, “Campus-Community Youth Service Corps.”
Zacharakis, Jeffrey T., Kansas Board of Regents, “Adult Basic Education Leadership Academy.”
Zacharakis, Jeffrey T., Kansas Board of Regents, “Focus Groups of Adult Learners from KS Adult Learning Centers.”

ELEMENTARY EDUCATION
Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), and Yahnke, Sally J. (Secondary Education), US Department of Education, “Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships.”
Vontz, Thomas, Center for Civic Education, “2007 Kansas State University Institute for Social Studies Teachers: Teaching and Learning the United States Constitution.”
Vontz, Thomas, NPS-Brown Foundation, $5,000, “We the People Institute Match.”
Vontz, Thomas, US Department of Education, “Kansas - We the People: The Citizen and the Constitution.”
Vontz, Thomas, US Department of Education, “Kansas State University (KSU)/Kazakhstan Civic Education.”

SECONDARY EDUCATION
Goodson, F. Todd, International Reading Association, Inc., “Editorship of Journal of Adolescent and Adult Literacy.”
Kane, Mary R., Kansas State Department of Education, $70,604, “FPA-YF/YFW Organizations.”
Spears, Jacqueline D., Douglas, Kimberly D. (Dean of Engineering), Dyer, Ruth A. (Office of the Provost), Freeman, Lisa C. (Anatomy and Physiology), and Montelone, Beth A. (Dean of Arts and Sciences), National Aeronautics and Space Administration, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering, and Mathematics.”
Spears, Jacqueline D., and Montelone, Beth A. (Dean of Arts and Sciences), National Science Foundation, “Systematic Approach to Infusing Science Research into K-12 Classrooms.”
Yahnke, Sally J., Bennett, Andrew G. (Mathematics), and Shroyer, Margaret G. (Elementary Education), US Department of Education, “Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships.”

SPECIAL EDUCATION, COUNSELING, AND STUDENT AFFAIRS

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE
Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Department of Commerce, $45,000, “Develop and Implement Early-Stage Technology Development Assistance Center.”
Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Technology Enterprise Corporation, $50,000, “EDA Early-Stage Technology Development Assistance Center: Phase II.”
Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Technology Enterprise Corporation, $645,000, “Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement.”
Tucker, Jeffrey W., Bob Fisher, $5,000, “Conduct Initial Marketing Tasks for Bob Fisher’s Basketball Shooting Video.”
Tucker, Jeffrey W., Carefree Gardner, Inc., $4,100, “Development of Strategic Marketing Plan for the Watering Weedless Wonder.”
Tucker, Jeffrey W., Kansas Center for Entrepreneurship, Inc., $5,000, “Kansas Center for Entrepreneurship, Inc. Award Agreement - Funds for Bob Fisher’s Basketball Shooting Video Project P08-0029.”
Tucker, Jeffrey W., Kansas Center for Entrepreneurship, Inc., $7,540 (includes $2,900 from Xtreme Enterprises LLC), “StartUp Kansas Agreement.”
Tucker, Jeffrey W., and Kramer, Bradley A., Kansas Department of Commerce, “Develop and Implement Early-Stage Technology Development Assistance Center.”
Tucker, Jeffrey W., Kansas Department of Transportation, $135,000, “Final Development and Marketing of Driver Notification Sign and Pavement Steel Finder Equipment.”
Tucker, Jeffrey W., and Kramer, Bradley A., Kansas Environmental Management Associates, LLC, $120,948, “Phase IV & V: Farm Scale Phosphorus Recovery Master Agreement Construction, Start-up and Monitoring (P08-0102).”

STUDENT AFFAIRS, COUNSELING, AND SPECIAL EDUCATION, CO-OP PROGRAMS


Tucker, Jeffrey W., North Central Regional Planning Commission, $50,000, “Regional Industry Cluster Analysis and Innovation Networking POB-0098.”


BIOLOGICAL AND AGRICULTURAL ENGINEERING

Alam, Mahbub U., Brouk, Micheal J. (Animal Sciences and Industry), Golden, Billy B. (Agricultural Economics), Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), Lamm, Freddie R. (Northwest Research Extension Center), Schlegel, Alan J. (Southwest Research Extension Center), Staggenborg, Scott A. (Agronomy), and Stone, Loyd R. (Agronomy), US Department of Agriculture, $111,250, “New Water Management Technologies to Sustain Rural Economies - KSU.”


Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (President for Research and Dean of Graduate School), and Leven, Blake A. (Center for Hazardous Substance Research), US Department of Defense, $61,500, “Urban Operations Laboratory.”


Hutchinson, Stacy L., Steichen, James M. (National Institute for Land Management and Training), and Zhang, Naqian, US Department of Defense, $24,000, “Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality.”

Hutchinson, Stacy L., and Hutchinson, J. M. Shawn (Geography), US Department of Defense, $243,517, “Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability.”

Hutchinson, Stacy L., and Hutchinson, J. M. Shawn (Geography), US Department of the Interior, $212,264, “Range and Training Lands Assessment on Fort Riley.”


Mankin, Kyle R., US Environmental Protection Agency, $73,628 (includes $7,028 from Cooperator Support), “Big Hill Creek/Big Hill Lake Watershed Assessment.”


Nejadhashemi, Amirpouyan, Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and Mankin, Kyle R., US Department of the Interior, “Kansas Water Resources Research Institute.”


Powell, G. Morgan, US Environmental Protection Agency, $100,000, “Kansas Environmental Leadership Program.”

Powell, G. Morgan, US Environmental Protection Agency, $21,250, “Kansas Environmental Leadership Program (KELP) 05-06 Class.”

Price, Randy R., American Sugar Cane League, $12,500, “Development of New Technology to Estimate Sugarcane Yields and Improve Planting Systems.”

Price, Randy R., Prasad, P. V. Vara (Agronomy), and Staggenborg, Scott A. (Agronomy), Kansas Grain Sorghum Commission, $3,060, “Improving Crop Management Decisions with Soil Moisture Monitoring.”

Price, Randy R., Meredith Corporation, $6,600, “Measurement of the In-Field Accuracies of Different Guidance Systems.”


Rogers, Danny H., and Alam, Mahbub U. (Southwest Area Office), Kansas Water Office, $75,000, “K-State Mobile Irrigation Lab.”

Slocumbe, John W., US Department of Agriculture, $179,860, “Kansas AgrAbility Project.”


Wang, Donghai, National Science Foundation, $60,386, “Processing Genetically Engineered Biomass to Obtain Optimal Enzymatic Digestion of Cell Wall Polysaccharides in Cellulosic Biofuel Production.”


Wang, Donghai, US Department of Agriculture, $32,000, “Fermentation Quality of Sorghum.”


Wang, Donghai, Madl, Ronald L. (Grain Science and Industry), Staggenborg, Scott A. (Agronomy), and Woolerton, Michael W. (Agricultural Economics), US Department of Transportation, $21,000, “Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production.”


Yuan, Wenzhao, and Pei, Zhijian (Industrial and Manufacturing Systems Engineering), National Science Foundation, $49,280, “SGER: Exploratory Research on Solid Carriers for Manufacturing Algae Biofuels in the Ocean.”


Wang, Donghai, National Science Foundation, $60,386, “Processing Genetically Engineered Biomass to Obtain Optimal Enzymatic Digestion of Cell Wall Polysaccharides in Cellulosic Biofuel Production.”


Wang, Donghai, US Department of Agriculture, $32,000, “Fermentation Quality of Sorghum.”


Wang, Donghai, Madl, Ronald L. (Grain Science and Industry), Staggenborg, Scott A. (Agronomy), and Woolerton, Michael W. (Agricultural Economics), US Department of Transportation, $21,000, “Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production.”


Yuan, Wenzhao, and Pei, Zhijian (Industrial and Manufacturing Systems Engineering), National Science Foundation, $49,280, “SGER: Exploratory Research on Solid Carriers for Manufacturing Algae Biofuels in the Ocean.”


CIVIL ENGINEERING

Coon, Brian A., US Department of Transportation, $952,875 (includes $264,575 from KDOT), “The Sustainability and Safety of Rural Transportation Systems and Infrastructure.”


Esmaily, Asadollah, and Melhem, Hani G., Abilene & Smoky Valley Railroad Association, “Structural Check of the Abilene and Smoky Valley Railroad Bridge for a Steam Locomotive.”


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

Hossain, Mustaque A., Kansas Department of Transportation, $82,002, “Assessment of General Aviation Airport Pavement Condition in Kansas.”


Melhem, Hani G., and Esmaily, Asadollah, Abilene & Smoky Valley Railroad Association, $8,000, “Structural Check of the Abilene and Smoky Valley Railroad Bridge for a Steam Locomotive.”

Rasheed, Hyder A., and Esmaily, Asadollah, Kansas Department of Transportation, $39,000, “Software for the American Association of State Highway and Transportation Officials Load and Resistance Factor Design Combined Shear and Torsion Computations using Modified Compression Field Theory and 3D-Truss Analogy.”

Russell, Eugene R., and Dissanayake, Sunanda, Kansas Department of Transportation, $60,000, “High-Risk Rural Roads Guide to Assist Local Road Officials Increase Safety on High Risk Rural Roads.”

Russell, Eugene R., Kansas Department of Transportation, $10,000, “National Roundabout Conference Sponsorship.”

Russell, Eugene R., and Rys, Malgorzata J. (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, $17,700, “Promoting Center Line Rumble Strips to Increase Rural, Two-Lane Highway Safety.”

Starrett, Steven K., National Science Foundation, $15,833, “University of Kansas Initiative on Ethics Education in Science and Engineering (KU-IEEE).”

Steward, David R., Blair, John M. (Biology), Dodds, Walter K. (Biology), and Harrington Jr., John A. (Geography), National Science Foundation, “Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains.”

Stokes, Robert W., US Department of Transportation, $101,039, “Traffic Assistance Services for Kansas (TASK).”

COMPUTING AND INFORMATION SCIENCES


Andresen, Daniel A., Hatcliff, John M., Robby, and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, “Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices.”

Andresen, Daniel A., Erickson, Howard H. (Anatomy and Physiology), Poole, David C. (Anatomy and Physiology), Spire, Mark F. (Diagnostic Medicine/Pathobiology), and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, $72,600, “Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market.”

Andresen, Daniel A., Llewelyn, Richard V. (Agricultural Economics), Mintert, James R. (Agricultural Economics), Schroeder, Ted C. (Agricultural Economics), and Stroade, Jeri L. (Agricultural Economics), US Department of Agriculture, $14,578, “Developing an Accessible and Comprehensive Cattle Risk Management Information Library.”


Caragea, Doina, Akhunov, Eduard D. (Plant Pathology), Brown, Susan J. (Biology), Garrett, Karen A. (Plant Pathology), Gill, Bikram S. (Plant Pathology), Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Narayanan, Sanjeevkumar (Diagnostic Medicine/Pathobiology), Nelson, James C. (Plant Pathology), White, Frank F. (Plant Pathology), Yu, Jianming (Agronomy), and Zurek, Lukas (Entomology), Kansas State University, $170,000, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”

Caragea, Doina, National Science Foundation, $145,504, “Collaborative Research: Learning Classifiers from Autonomous, Semantically Heterogeneous, Distributed Data.”


Erickson, Larry E., Eckels, Steven J., (Institute for Environmental Research), Guikema, James A. (Vice President for Research and Dean of Graduate School), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $215,250, “Urban Operations Laboratory.”

Hatcliff, John M., National Science Foundation, $64,872, “Collaborative Research: A Community Resource to Support Controlled Experimentation with Program Analysis and Software Testing Techniques.”
Hatcliff, John M., Andresen, Daniel A., Robby, and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, $55,000, “Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices.”


Hsu, William H., Das, Sanjoy (Electrical and Computer Engineering), Knapp, Mary C. (Dean of Agriculture and Director of AES), Roe, Judith L. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $10,054, “Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments.”

Hsu, William H., Rahman, Talat S. (Physics), and Wallentine, Virgil E., National Science Foundation, $154,232, “Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models.”

Nielsen, Mitchell L., Sandia National Laboratories, $30,000, “Turbo Solder Interconnect Predictor Tool.”


Nielsen, Mitchell L., US Department of Agriculture, $25,000, “Integration of Spillway Erosion Technology and WinTR-20 with WinDAM.”

Ou, Xinming (Simon), National Science Foundation, $146,000, “Model-Based, Automatic Network Security Management.”

Robby, National Science Foundation, $220,000, “Collaborative Research: A Java Modeling Language Community Infrastructure—Revisalizing Tools and Documentation to Aid Formal Methods of Research.”


Wallentine, Virgil E., Hsu, William H., and Rahman, Talat S. (Physics), National Science Foundation, “Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models.”

**DEAN OF ENGINEERING**

Douglas, Kimberly D., Dyer, Ruth A. (Office of the Provost), Freeman, Lisa C. (Anatomy and Physiology), Montelone, Beth A. (Dean of Arts and Sciences), and Spears, Jacqueline D. (Secondary Education), National Aeronautics and Space Administration, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics.”

King, Terry S., Multisponsor, $3,315, “Pre-Enrollment Mathematics and Sciences Tutoring of Minority Engineering Recruits.”

King, Terry S., Dyer, Ruth A. (Office of the Provost), Montelone, Beth A. (Dean of Arts and Sciences), Unger, Elizabeth A. (Vice Provost for Academic Services and Technology), and White, Stephen E. (Dean of Arts and Sciences), National Science Foundation, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

Larson, Nancy J., Multisponsor, $8,109, “KINEX Multi-Sponsor.”


**ELECTRICAL AND COMPUTER ENGINEERING**


Das, Sanjoy, Hsu, William H. (Computing and Information Sciences), Knapp, Mary C. (Dean of Agriculture and Director of AES), Roe, Judith L. (Agronomy), and Welch, Stephen M. (Agronomy), National Science Foundation, $20,108, “Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments.”


Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research/Office of Research and Sponsored Programs), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $123,000, “Urban Operations Laboratory.”


Kuhn, William B., National Aeronautics and Space Administration, $10,000, “Proximity Microtransceiver for Interoperable Mars Communications.”


Kuhn, William B., Peregrine Semiconductor Corporation, $60,000, “Micro-Power Radio Transceivers in Peregrine Semiconductor’s SOS Process.”


Kuhn, William B., US Department of Energy, $97,775, “RFIC Development in Peregrine SOS Phase I.”

Lewis, Christopher L., and Schinostock, Dale E. (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, $51,876, “Topographic Models with Multispectral Image Registration from Orbiter Data.”
Lewis, Christopher L., and Schinstock, Dale E. (Mechanical and Nuclear Engineering), US Department of Defense, $10,000, “Passive Target Tracking Using Immediate Terrain Mapping to Disambiguate Target States.”


Warren, Steven, Andreassen, Daniel A. (Computing and Information Sciences), Hatcliff, John M. (Computing and Information Sciences), and Robby, (Computing and Information Sciences), National Science Foundation, “Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices.”

Warren, Steven, Andreassen, Daniel A. (Computing and Information Sciences), Erickson, Howard H. (Anatomy and Physiology), Poole, David C. (Anatomy and Physiology), and Spire, Mark F. (Diagnostic Medicine/Pathobiology), National Science Foundation, $72,600, “Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market.”

**ENGINEERING EXPERIMENT STATION**

Jones, Byron W., Kansas Technology Enterprise Corporation, $2,000, “ADMRc Administration.”

Jones, Byron W., MITRE Corporation, $10,000, “Aircraft Filter Assessment.”

**INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING**


Lei, Shuting, US Department of Defense, $22,062, “5-Axis Laser Assisted Machining of Silicon Carbide Ceramic Matrix Composites.”

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

Pei, Zhijian, Boeing Company, $10,000, “Ultrasonic Drilling Testing.”

Pei, Zhijian, Crystal Technology, Inc., $37,500, “Development of Advance Fabrication Process of Lithium Niobate - Patrick Zhang (Internship).”

Pei, Zhijian, Crystal Technology, Inc., $50,000, “Development of Advance Fabrication Process of Lithium Niobate - Xiaohong Zhang (Internship).”

Pei, Zhijian, National Science Foundation, $16,000, “Fundamental Research on Silicon Wafer Fine Grinding to Foster a Quantum Leap in Manufacturing of Silicon Wafers.”

Pei, Zhijian, National Science Foundation, $6,000, “Innovative Laser-Based Techniques for Characterization of Subsurface Cracks in Semiconductor Wafers.”

Pei, Zhijian, and Yuan, Wengjao (Biological and Agricultural Engineering), National Science Foundation, $49,280, “SGER: Exploratory Research on Solid Carriers for Manufacturing Algae Biofuels in the Ocean.”


Rys, Malgorzata J., and Russell, Eugene R. (Civil Engineering), Kansas Department of Transportation, $41,300, “Promoting Center Line Rumble strips to Increase Rural, Two-Lane Highway Safety.”

**INSTITUTE FOR ENVIRONMENTAL RESEARCH**

Eckels, Steven J., Multisponsor, $252,577, “Institute for Environmental Research Support.”


Eckels, Steven J., Erickson, Larry E. (Center for Hazardous Substance Research), Guikema, James A. (Vice President for Research and Dean of Graduate School), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $645,750, “Urban Operations Laboratory.”

Eckels, Steven J., Hosni, Mohammad H. (Mechanical and Nuclear Engineering), and Jones, Byron W., US Department of Transportation, “Air Contamination Measurement Methods (Task #5).”

Eckels, Steven J., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), Whirlpool Corporation, $17,520, “Development of a Laboratory Test Procedure for Dryer Ventilation Requirements.”

Jones, Byron W., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), Boeing Company, $237,000, “Sponsor Research Agreement - KSU Project Agreement No. 4.”

Jones, Byron W., Hirt, Helmut (Biology), Hosni, Mohammad H. (Mechanical and Nuclear Engineering), and Smith, Andrew T. (Salina Aviation), Kansas State University, $64,000, “Aircraft Cabin Environmental Security Proposal.”

Jones, Byron W., Eckels, Steven J., and Hosni, Mohammad H. (Mechanical and Nuclear Engineering), US Department of Transportation, $75,000, “Air Contamination Measurement Methods (Task #5).”

Jones, Byron W., US Department of Transportation, $40,000, “In-Flight Project, Task 4.”


**KANSAS INDUSTRIAL EXTENSION SERVICES**


| Larson, Nancy J. | US Environmental Protection Agency, $75,500 (includes $5,580 from Industrial Firms), “Champions for Change - Source Reduction in Healthcare Facilities.” |
| Nelson, Richard G. | US Environmental Protection Agency, $100,000, “Investigation of Land-Use Activities and Ecosystems Conditions Pertaining to Biofuels Production.” |
| Snead, Bruce C. | US Environmental Protection Agency, $12,182, “National Radon-Focused Risk Reduction Training Project.” |
| Snead, Bruce C. | US Environmental Protection Agency, $126,000, “Radon Projects for Kansas.” |
| Snead, Bruce C. | US Environmental Protection Agency, $10,500, “Radon Training Courses for the Nebraska Radon Program.” |
| Snead, Bruce C. | US Environmental Protection Agency, $8,600 (includes $3,600 from Participant Contributions), “Radon Workshops.” |
| Snead, Bruce C. | US Environmental Protection Agency, $47,663, “Regional Radon Training Center.” |

**MECHANICAL AND NUCLEAR ENGINEERING**

| Babin, Bruce R. | BAE Systems, $11,014, “Spray Cooling.” |
| Beck, B. Terry, and Hosni, Mohammad H. | Whirlpool Corporation, “Dryer Door Viscous Latch Development.” |
| Cai, Liang-Wu, and Xin, Xiao J. | National Science Foundation, “Introducing Finite Element Methods into Undergraduate Engineering Courses through a Module-Based Approach.” |
| Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), Guikema, James A. (Vice President for Research/Office of Research and Sponsored Program), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, $676,500, “Urban Operations Laboratory.” |
| Hosni, Mohammad H., and Jones, Byron W. (Institute for Environmental Research), Boeing Company, “Sponsor Research Agreement - KSU Project Agreement No. 4.” |
| Hosni, Mohammad H., Hirt, Helmut (Biology), Jones, Byron W. (Institute for Environmental Research), and Smith, Andrew T. (Salina Aviation), Kansas State University, $192,000, “Aircraft Cabin Environmental Security Proposal.” |
| Hosni, Mohammad H., Anderson, Dawn L. (Dean of Human Ecology), and Maes, Sue C. (Dean of Continuing Education), US Department of Education, $21,443, “Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education.” |
| Hosni, Mohammad H., US Department of Energy, $99,616, “Global Nuclear Energy Partnership Readiness at Kansas State University - Direct Summer Internship Experience for Faculty, Graduate and Undergraduate Students.” |
| Hosni, Mohammad H., Eckels, Steven J. (Institute for Environmental Research), and Jones, Byron W. (Institute for Environmental Research), US Department of Transportation, “Air Contamination Measurement Methods (Task #5).” |
| Hosni, Mohammad H., and Beck, B. Terry | Whirlpool Corporation, $29,238, “Dryer Door Viscous Latch Development.” |
| Madaneshetty, Sameer I. | Kansas Department of Transportation, $15,000, “Assessing the Accoustic Benefits of the New Coating Used in Surfacing Highway Lanes.” |
| Schinstock, Dale E., and Lewis, Christopher L. (Electrical and Computer Engineering), National Aeronautics and Space Administration, $511,876, “Topographic Models with Multispectral Image Registration from Orbiter Data.” |
| Schinstock, Dale E., and Lewis, Christopher L. (Electrical and Computer Engineering), US Department of Defense, $10,000, “Passive Target Tracking Using Immediate Terrain Mapping to Disambiguate Target States.” |
Participation in Congregate Meal Programs (Kuei-l Lee).

Gould, Rebecca A., Kansas State University Foundation, $3,500, “Using the Theory of Reasoned Action to Assess Participation in Congregate Meal Programs (Kuei-l Lee).”

HUMAN NUTRITION


Haub, Mark D., Nutrijoy, Inc., $50,000, “Services Agreement.”


Wang, Weiqun, Kansas State University Foundation, $3,000, “Undergraduate Student Cancer Research - Mentoring 3 Students.”

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES


Bradshaw, Michael H., Kansas Health Foundation, $80, “Health Promotion for Older Kansans.”

Deluccie, Mary L., US Department of Agriculture, $8,301, “Federal Aid in Support of the Child and Adult Care Food Program.”


Deluccie, Mary L., USD 383, Manhattan, $19,992, “Early Childhood Lab.”

Fink, Carol J., and Johannes, Elaine M., National 4-H Council, “Kansas State University - Health Rocks!”

Glasscock, Marlene K., US Department of Agriculture, $650,000, “4-H/AFPE Partnership Project.”

Glasscock, Marlene K., US Department of Agriculture, $9,823,415, “4-H/Army Youth Development Project - KS.”


Griffin, Charles L., Kansas Department of Social & Rehabilitation Services, $255,223, “SRS Organizational Development Training and Curriculum Development.”

Griffin, Charles L., and Olsen, Charlotte S., US Department of Agriculture, $100,000, “Women Managing the Farm.”
Unmanned Aerial Systems (UAS) - Phase 2.

Griffin, Charles L., US Department of Health and Human Services, $100,000, “Kansas All Hazards Behavior Health Plan.”

Griffin, Charles L., US Department of Health and Human Services, $2,668,767, “Kansas All Hazards Behavioral Health Plan.”


Johannes, Elaine M., and Fink, Carol J., National 4-H Council, $39,971 (includes $1,750 from 4-H & FSHS for facilities use, and $8,221 from SADD for facilities use), “Kansas State University - Health Rocks!”

Johannes, Elaine M., and Fink, Carol J. (Four-H Youth Development). US Department of Agriculture, “New Communities Project - Kansas Teen leadership for Physically Active Lifestyles.”

O Conner, Nancy T., Kansas Health Solutions, LLC, $57,850, “Home Based Family Therapy Training.”

O Conner, Nancy T. US Department of Health and Human Services, $190,501, “Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services.”


Sellers, Debra, Arthritis Foundation, $1,750, “Fashion an Easier Life with Assistive Technology.”

Sellers, Debra, Assistive Technology for Kansans, $1,000, “Fashion an Easier Life with Assistive Technology.”

Sellers, Debra, Kansas Department of Health and Environment, $4,000, “Fashion an Easier Life with Assistive Technology.”

Stith, Sandra M., US Department of Agriculture, $1,393,427, “Kansas State University/AF-Family Advocacy Research and Training Project.”


Stith, Sandra M., US Department of Agriculture, $390,103, “USDA/USAF Family Advocacy Training Support and Research Project.”

Griffin, Charles L., US Department of Health and Human Services, $50,000, “Unmanned Aerial Systems (UAS) - Phase 2.”

Griffin, Charles L., US Department of Health and Human Services, $2,668,767, “Kansas All Hazards Behavioral Health Plan.”


Johannes, Elaine M., and Fink, Carol J., National 4-H Council, $39,971 (includes $1,750 from 4-H & FSHS for facilities use, and $8,221 from SADD for facilities use), “Kansas State University - Health Rocks!”

Johannes, Elaine M., and Fink, Carol J. (Four-H Youth Development). US Department of Agriculture, “New Communities Project - Kansas Teen leadership for Physically Active Lifestyles.”

O Conner, Nancy T., Kansas Health Solutions, LLC, $57,850, “Home Based Family Therapy Training.”

O Conner, Nancy T. US Department of Health and Human Services, $190,501, “Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services.”


Sellers, Debra, Arthritis Foundation, $1,750, “Fashion an Easier Life with Assistive Technology.”

Sellers, Debra, Assistive Technology for Kansans, $1,000, “Fashion an Easier Life with Assistive Technology.”

Sellers, Debra, Kansas Department of Health and Environment, $4,000, “Fashion an Easier Life with Assistive Technology.”

Stith, Sandra M., US Department of Agriculture, $1,393,427, “Kansas State University/AF-Family Advocacy Research and Training Project.”


Stith, Sandra M., US Department of Agriculture, $390,103, “USDA/USAF Family Advocacy Training Support and Research Project.”

SALINA AVIATION

Barnhart, Richard K., Kuhlman, Dennis K. (Dean of College of Technology and Aviation), and Splichal, Jimmy D., City of Salina, KS, $100,000, “Salina Economic Development Grant.”


Smith, Andrew T., Hirt, Helmut (Biology), Hosni, Mohammad H. (Mechanical and Nuclear Engineering), and Jones, Byron W. (Institute for Environmental Research), Kansas State University, $192,000, “Aircraft Cabin Environmental Security Proposal.”


SALINA ENGINEERING TECHNOLOGY


SALINA FISCAL AFFAIRS

Kuhlman, Dennis K., and Beckman, Evan J. (Salina Aviation), Marathon Racing, Inc., “Memorandum of Agreement.”

ANATOMY AND PHYSIOLOGY

Blecha, Frank, and Freeman, Lisa C., US Department of Health and Human Services, “Basic Research Immersion Training Experience (BRITE) Veterinary Student Program.”

Erickson, Howard H., Andresen, Daniel A. (Computing and Information Sciences), Poole, David C., Spire, Mark F. (Diagnostic Medicine/Pathobiology), and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, $52,800, “Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market.”

Erickson, Howard H., and Minton, J. Ernest (Animal Sciences and Industry), United Feeds, $25,000, “Omega-3 Fatty Acids for Exercise-Induced Pulmonary Hemorrhage.”

Freeman, Lisa C., Merck Company Foundation, $31,729 (includes $21,851 from Stipends & Training Expenses), “2008 Merck Merial Veterinary Research Grants Program.”

Freeman, Lisa C., Douglas, Kimberly D. (Dean of Engineering), Dyer, Ruth A. (Office of the Provost), Montelone, Beth A. (Dean of Arts and Sciences), and Spears, Jacqueline D. (Secondary Education), National Aeronautics and Space Administration, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics.”

Freeman, Lisa C., and Montelone, Beth A. (Dean of Arts and Sciences), US Department of Agriculture, $235,329, “Pathways to Public Health.”

Freeman, Lisa C., and Blecha, Frank, US Department of Health and Human Services, $61,278, “Basic Research Immersion Training Experience (BRITE) Veterinary Student Program.”

Freeman, Lisa C., US Department of Health and Human Services, $145,395, “Post-DVM Fellowship for Dr. Ethel Taylor.”

Freeman, Lisa C., and Marcus, Daniel C., US Department of Health and Human Services, $47,197, “Short-Term Training Students in Health Professional Schools.”

College of Veterinary Medicine
Freeman, Lisa C., US Department of State, $76,765, “Fellowship for a PhD Program for Denis Odnoshevsyki.”

Kenney, Michael J., and Freeman, Lisa C. (Dean of Veterinary Medical Center), US Department of State, $104,561, “Afghanistan and Iraqi Engagement (PR 1005844).”

Kukanchi, Stanley P., and Beard, Warren L. (Clinical Sciences), Grayson-Jockey Club Research Foundation, $8,217, “Effect of Flunixin on Lidocaine Plasma Protein Binding.”

Kukanchi, Stanley P., Kansas Racing and Gaming Commission, $23,081, “Pharmacokinetics and Pharmacodynamics of the Analgesic Tramadol and Its Active Metabolite in Greyhound Dogs.”

Kukanchi, Stanley P., and Davis, Elizabeth G. (Clinical Sciences), Morris Animal Foundation, $2,000, “The Pharmacokinetics of the Antifungal Drug Terbinafine in Horses - Megan Montgomery.”

Kumari, Meena, US Department of Health and Human Services, $255,179, “Ethanol-Induced NMDA R1 mRNA Stabilization.”

Marcus, Daniel C., Kansas Technology Enterprise Corporation, $65,000, “Epithelial Function in Health and Disease.”


Marcus, Daniel C., US Department of Health and Human Services, $2,727,429, “Epithelial Function in Health and Disease.”

Marcus, Daniel C., and Freeman, Lisa C., US Department of Health and Human Services, “Short-Term Training Students in Health Professional Schools.”


Musch, Timothy I., and Poole, David C. (Kinesiology), Cytokinetics, Inc., $44,586, “Cytokinetics Project.”

Poole, David C., and Musch, Timothy I., Cytokinetics, Inc., “Cytokinetics Project.”

Poole, David C., Andreseen, Daniel A. (Computing and Information Sciences), Erickson, Howard H., Spire, Mark F. (Diagnostic Medicine/Pathobiology), and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, “Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market.”

Schultz, Bruce D., Chen, Jianhan, and Tomich, John M. (Biochemistry), US Department of Health and Human Services, $24,196, “Model Synthetic Channel Assemblies.”

Schultz, Bruce D., and Lillich, James D. (Clinical Sciences), US Department of Health and Human Services, $328,500, “Neuroendocrine-modulated Epithelial HCO3-transport.”

Tamura, Masaaki, and Troyer, Deryl L., Joan’s Legacy: The Joan Scarangello Foundation, $50,000, “IFN-Beta Expressing Stem Cell Therapy for Bronchioloalveolar Carcinoma.”

Tamura, Masaaki, Hua, Duy H. (Chemistry), and Troyer, Deryl L., US Department of Health and Human Services, “Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer.”


Troyer, Deryl L., Hua, Duy H. (Chemistry), and Tamura, Masaaki, US Department of Health and Human Services, $97,226, “Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer.”


Weiss, Mark L., Toucan Capital Corporation, $93,046, “Proposal for Collaborative Work with Toucan Capital (Project 1).”

Weiss, Mark L., US Department of Health and Human Services, $6,151, “Bioactive Signal Gradients to Engineer TMJ Condyle Osteochondral Constructs.”

CLINICAL SCIENCES


Apley, Michael D., Coetzee, Johann F., and Gehring, Ronette, National Pork Board, $46,879, “Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck.”


Carpenter, James W., Association of Avian Veterinarians, $8,164, “Single-Dose Pharmacokinetics of Piperacillin/Tazobactam in the Hispaniolan Amazon Parrot (Amazona ventralis).”


Coetzee, Johann F., Apley, Michael D., and Gehring, Ronette, National Pork Board, “Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck.”


Gehring, Ronette, Apley, Michael D., and Coetzee, Johann F., National Pork Board, “Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck.”
Grauer, Gregory F., Vetoquinol USA, $151,092, “Comparison of Rubenal and Benzazepril in the Treatment of Chronic Kidney Disease in Cats.”

Harkin, Kenneth R., Royal Canin, $21,452, “Evaluation of L-Carnitine in Treatment of Toy Breed Hypoglycemia and in Pre-Conditioning of Toy Breed Puppies Prior to Shipping.”

Higginbotham, Mary Lynn, American Association of Feline Practitioners, $8,721, “Gene Expression Profiling of Feline Lymphoma.”


Lillich, James D., American Quarter Horse Association, $19,442, “Development of a Minimally Invasive Surgical Approach to Arthrodesis of the Osteoarthritic Equine Proximal Interphalangeal Joint.”


Marcus, Daniel C., US Department of Health and Human Services, $486,887, “Epithelial Function in Health and Disease.”

Renberg, Walter C., Novartis Corporation, $49,700, “Placebo-Controlled Field Efficacy Trial of Meloxicam (VEL-504) Administered Orally Via Transmucosal Oral Mist (PromistT Technology) in Client-Owned Dogs with Osteoarthritis.”

Rush, Bonnie R., Saint George’s University, $81,888, “Clinical Training for St. George University.”


Thomson, Daniel U., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), National Cattlemen’s Beef Association, $101,000, “The effects of the Salmonella Newport SRP Vaccine in Feedlot Cattle.”

Thomson, Daniel U., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and Renter, David G. (Diagnostic Medicine/Pathobiology), Star-Labs/Forage Research, Inc., “Effect of a Probiotic Product on Fecal Shedding of Escherichia coli O157:H7 in Cattle.”

White, Bradley J., Biomune Company, $22,046, “Mycoplasma Bovis Prevalence in Field Cases of Bovine Respiratory Disease.”

White, Bradley J., and Renter, David G. (Diagnostic Medicine/Pathobiology), US Department of Agriculture, $187,500, “Bovine Respiratory Disease Complex: Epidemiologic Methods to Improve Evidenced-Based Disease Management.”

DEAN OF VETERINARY MEDICAL CENTER

Freeman, Lisa C., Merck Company Foundation, $31,729 (includes $21,851 from Stipends & Training Expenses), “2008 Merck Merarial Veterinary Research Grants Program.”

Freeman, Lisa C., and Montelone, Beth A. (Dean of Arts and Sciences), US Department of Agriculture, $235,329, “Pathways to Public Health.”

Freeman, Lisa C., and Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, $7,088, “Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training.”

Freeman, Lisa C., and Kenney, Michael J. (Anatomy and Physiology), US Department of State, $104,561, “Afghanistan and Iraqi Engagement (PR 1005844).”

Richardson, Ralph C., Kansas Bioscience Authority, $2,055,000, “Kansas Eminent Scholar in Animal Health.”

Richardson, Ralph C., Kansas State University Foundation, $197,064, “Professorships/Chairs.”

Willard, Gayle K., State Library of Kansas, $6,000, “Kansas Library ILDP Animals in Society.”

DIAGNOSTIC MEDICINE/PATHOLOGY


Chang, Kydong-Ok, US Department of Health and Human Services, $181,979, “Replication of Noroviruses in Cell Culture.”

Chowdhury, Shafiqul I., and Wilkerson, Melinda, US Department of Agriculture, $375,000, “Regulation of Pathogenicity and Immunogenicity by BHV-1 Envelope Glycoproteins gMgN.”

Dritz, Steven S., Hesse, Richard, Niefeld, Jerome C., and Rowland, Raymond R. R., American Association of Swine Veterinarians Foundation, $6,000, “Porcine Circovirus Type 2 Elimination Study.”


Dreyden, Michael W., Bagladi-Swanson, Mary S. (Veterinary Medical Teaching Hospital), and Willkerson, Melinda, Fort Dodge Animal Health, “Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis.”

Fortney, William D., Kansas Racing and Gaming Commission, $21,650, “Developing Advanced Molecular Diagnostics for the Differentiation of Mycoplasma sp. Isolated from Coughing Greyhounds.”


Ganta, Roman Reddy R., US Department of Health and Human Services, $365,000, “Vector and Host Contributions to the Regulation of E. chaffeensis Gene Expression.”

Hesse, Richard, Dritz, Steven S., Nettfeld, Jerome C., and Rowland, Raymond R. R., American Association of Swine Veterinarians Foundation, “Porcine Circovirus Type 2 Elimination Study.”

Hesse, Richard, Rowland, Raymond R. R., and Wyatt, Carol R., National Pork Board, $200,875, “PCVAD Induced Immune Dysfunction.”

Hesse, Richard, National Pork Board, $10,000, “PCVAD Outreach for Website.”

Kastner, Justin J., Getty, Kelly J. K. (Food Science Institute), Kastner, Curtis L. (Food Science Institute), Nutsch, Abbey L. (Animal Sciences and Industry), and Retzlaff, Deanna D. (Dean of Continuing Education), US Department of Homeland Security, $93,455, “Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense.”

Nagaraja, Tiruvooor G., Drouillard, James S. (Animal Sciences and Industry), and Renter, David G., National Cattlemen’s Beef Association, “Strategies to Address Adverse Effects of Distiller’s Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle.”


Nagaraja, Tiruvooor G., and Freeman, Lisa C. (Dean of Veterinary Medical Center), US Department of Health and Human Services, “Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training.”

43
Narayanan, Sanjeevkumar, Akhunov, Eduard D. (Plant Pathology), Brown, Susan J. (Biology), Caragea, Doina (Computing and Information Sciences), Garrett, Karen A. (Plant Pathology), Gill, Bikram S. (Plant Pathology), Herman, Michael A. (Biology), Johnson, Loretta C. (Biology), Nelson, James C. (Plant Pathology), White, Frank F. (Plant Pathology), Yu, Jianming (Agronomy), and Zurek, Ludek (Entomology), Kansas State University, $170,000, “Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing.”


Nietfeld, Jerome C., Dritz, Steven S., Hesse, Richard, and Rowland, Raymond R. R., American Association of Swine Veterinarians Foundation, “Porcine Circovirus Type 2 Elimination Study.”


Pickrell, John A., Erickson, Larry E. (Center for Hazardous Substance Research), and Van Der Merwe, Deon, US Department of Defense, $25,000, “Environmental, Health and Safety Related Studies of Nanomaterials.”

Renter, David G., Drouillard, James S. (Animal Sciences and Industry), and Nagaraja, Tiruvoo G., National Cattlemen’s Beef Association, “Strategies to Address Adverse Effects of Distiller’s Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle.”


Renter, David G., and White, Bradley J. (Clinical Sciences), US Department of Agriculture, $187,500, “Bovine Respiratory Disease Complex: Epidemiologic Methods to Improve Evidenced-Based Disease Management.”

Robertson, Donald C., US Department of Health and Human Services, $14,980, “Protein Purification RFQ.”

Rowland, Raymond R. R., Dritz, Steven S., Hesse, Richard, and Nietfeld, Jerome C., American Association of Swine Veterinarians Foundation, “Porcine Circovirus Type 2 Elimination Study.”

Rowland, Raymond R. R., Hesse, Richard, and Wyatt, Carol R., National Pork Board, “PCVAD Induced Immune Dysfunction.”

Rowland, Raymond R. R., National Pork Board, $300,000, “PRRS Host Genetics Consortium: A Proposal to develop a consortium to study the role of host genetics and resistance to PRRSV.”


Spire, Mark F., Andreessen, Daniel A. (Computing and Information Sciences), Erickson, Howard H. (Anatomy and Physiology), Poole, David C. (Anatomy and Physiology), and Warren, Steven (Electrical and Computer Engineering), National Science Foundation, $22,000, “Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market.”


Van Der Merwe, Deon, Erickson, Larry E. (Center for Hazardous Substance Research), and Pickrell, John A., US Department of Defense, “Environmental, Health and Safety Related Studies of Nanomaterials.”

Wilkinson, Melinda, Bagli-Swan, Mary S. (Veterinary Medical Teaching Hospital), and Dryden, Michael W., Fort Dodge Animal Health, $17,000, “Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis.”

Wilkinson, Melinda, and Chowdhury, Shafiqul I., US Department of Agriculture, “Regulation of Pathogenicity and Immunogenicity by BHV-1 Envelope Glycoproteins gM/gN.”

Wyatt, Carol R., Hesse, Richard, and Rowland, Raymond R. R., National Pork Board, “PCVAD Induced Immune Dysfunction.”

VETERINARY MEDICAL TEACHING HOSPITAL

Bagli-Swan, Mary S., Dryden, Michael W. (Diagnostic Medicine/Pathobiology), and Wilkinson, Melinda (Diagnostic Medicine/Pathobiology), Fort Dodge Animal Health, “Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis.”

Fingland, Roger B., City of Manhattan, KS, $14,000, “Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas.”

OFFICE OF THE PRESIDENT

AUDITORIUM

Jackson, Thomas E., National Foundation on the Arts and the Humanities, $8,088, “2007-08 Performance Series.”

Jackson, Thomas E., National Foundation on the Arts and the Humanities, $3,000, “Latino Culture Project.”

BEACH ART MUSEUM

Render, Lorne E., National Foundation on the Arts and the Humanities, $8,088, “Beach Museum of Art General Operating Support, 2008.”

Schlageck, Kathrine W., National Foundation on the Arts and the Humanities, $8,000, “Growing up ARTSmart.”

Schlageck, Kathrine W., National Foundation on the Arts and the Humanities, $8,000, “Paths in the Press Programming.”

OFFICE OF THE PRESIDENT

Reagan, Charles, US Department of Defense, $2,000,000, “Kansas State University Graduate Degree Program Development and Implementation for U. S. Army Command and General Staff College Leadership and Security Studies; Enhance Cooperative Degree Program in History.”

PROVOST AND SENIOR VICE PRESIDENT

CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT


Procter, David E., Council on Public Policy Education, $5,000, “Encouraging Public Deliberation through the Institute for Civic Discourse and Democracy.”

Procter, David E., Kettering Foundation, $2,500, “Presidential Libraries Public Forums Project.”
**INTERNATIONAL PROGRAMS**

Holland, Kenneth M. (Dean of Arts and Sciences), and Montelone, Beth A. (Dean of Engineering), US Department of Education, “Kansas State University Upward Bound Program.”

Steichen, Ethel M., Corporation for National and Community Service, $48,723, “Evaluation for the Corporation for National and Community Service-Funded Service-Learning Project.”

**LIBRARY**


Schneck-Hamlin, Donna C., State Library of Kansas, $5,000, “Prairie Ecology.”

**OFFICE OF THE PROVOST**

Dyer, Ruth A., Douglas, Kimberly D. (Dean of Engineering), Freeman, Lisa C. (Dean of Agriculture), Montelone, Beth A. (Dean of Arts and Sciences), and Spears, Jacqueline D. (Dean of Education). National Aeronautics and Space Administration, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics.”

Dyer, Ruth A., King, Terry S. (Dean of Engineering), Montelone, Beth A. (Dean of Arts and Sciences), and Unger, Elizabeth A. (Dean of Arts and Sciences), National Science Foundation, $701,632, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

**VICE PROVOST FOR INFORMATION TECHNOLOGY SERVICES**

Maes, Sue C., Anderson, Dawn L. (Dean of Human Ecology), and Hosni, Mohammad H. (Dean of Engineering), National Aeronautics and Space Administration, “Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education.”

Reitzlaff, Deanna D., Getty, Kelly J. K. (Dean of University Libraries), Kastner, Curtis L. (Dean of University Libraries), Kastner, Justin J. (Dean of University Libraries), and Nutsch, Abbey L. (Dean of University Libraries), National Science Foundation, $26,702, “Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense.”

**VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY**

Unger, Elizabeth A., Dyer, Ruth A. (Office of the Provost), King, Terry S. (Dean of Engineering), Montelone, Beth A. (Dean of Arts and Sciences), and White, Stephen E. (Dean of Arts and Sciences), National Science Foundation, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

REGENTS TELENET

Allard, John W., Kansas Board of Regents, $25,214, “Kansas Regents Network (TELENET 2) HD-AV Implementation.”

**VICE PRESIDENT FOR ADMINISTRATION AND FINANCE**

**KSU POLICE DEPARTMENT**

Stubbings, Donald C., Kansas Alcoholic Beverage Control, $1,782, “Underage Drinking Enforcement.”

**DEPARTMENT OF HOUSING**


**EDUCATIONAL AND PERSONAL DEVELOPMENT**

Barragree, Cari D., US Department of Agriculture, $3,334, “Kansas State University-Salina Upward Bound Program Summer Food Service Program (SFSP).”

Barragree, Cari D., US Department of Education, $250,000, “Kansas State University - Salina Campus Upward Bound Project.”


Greene, Kathleen V., US Department of Education, $252,000, “Ronald E. McNair Post-Baccalaureate Achievement Program.”


Holmes, John Ella, and Lynch, Michael L., US Department of Agriculture, “Kansas State University Upward Bound Math and Science Food Service Program.”


Lynch, Michael L., and Holmes, John Ella, US Department of Agriculture, $3,054, “Kansas State University Upward Bound Math and Science Food Service Program.”


Turner, Margaret A., American Chemical Society, $1,500, “Kansas State University Upward Bound Math and Science Program - ACS Project Seed 2008 (Jade McConnell).”

Turner, Margaret A., American Chemical Society, $1,500, “Kansas State University Upward Bound Program - Student Support.”

Turner, Margaret A., US Department of Agriculture, $5,851, “Kansas State University Upward Bound Summer Food Service Program.”


**VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT**

Holland, Kenneth M., Canadian Department of Foreign Affairs and Int’l Trade, $15,872, “Canadian Studies Program Enhancement.”


Schenck-Hamlin, Donna C., State Library of Kansas, $5,000, “Prairie Ecology.”

**OFFICE OF THE PROVOST**

Dyer, Ruth A., Douglas, Kimberly D. (Dean of Engineering), Freeman, Lisa C. (Dean of Agriculture), Montelone, Beth A. (Dean of Arts and Sciences), and Spears, Jacqueline D. (Dean of Education). National Aeronautics and Space Administration, “Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics.”

Dyer, Ruth A., King, Terry S. (Dean of Engineering), Montelone, Beth A. (Dean of Arts and Sciences), and Unger, Elizabeth A. (Dean of Arts and Sciences), National Science Foundation, $701,632, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

**LIBRARY**


Schneck-Hamlin, Donna C., State Library of Kansas, $5,000, “Prairie Ecology.”

**VICE PROVOST FOR INFORMATION TECHNOLOGY SERVICES**

Maes, Sue C., Anderson, Dawn L. (Dean of Human Ecology), and Hosni, Mohammad H. (Dean of Engineering), National Aeronautics and Space Administration, “Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education.”

Reitzlaff, Deanna D., Getty, Kelly J. K. (Dean of University Libraries), Kastner, Curtis L. (Dean of University Libraries), Kastner, Justin J. (Dean of University Libraries), and Nutsch, Abbey L. (Dean of University Libraries), National Science Foundation, $26,702, “Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense.”

**VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY**

Unger, Elizabeth A., Dyer, Ruth A. (Office of the Provost), King, Terry S. (Dean of Engineering), Montelone, Beth A. (Dean of Arts and Sciences), and White, Stephen E. (Dean of Arts and Sciences), National Science Foundation, “ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University.”

KSU CHILD DEVELOPMENT CENTER, INC.
Curry, Elizabeth W., and Ring, Debra J., National Association of Child Care Resource & Referral Agencies, “Army Child Care in Your Neighborhood (ACCYN).”
Ring, Debra J., Kansas Child Care Training Opportunities, Inc, $37,020, “Kansas Child Care Training Opportunities, Inc.”
Ring, Debra J., Manhattan Community Foundation, $500, “KSU Child Development Center - Disaster Preparedness.”
Ring, Debra J., and Curry, Elizabeth W., National Association of Child Care Resource & Referral Agencies, $201,721, “Army Child Care in Your Neighborhood (ACCYN).”
Ring, Debra J., US Department of Agriculture, $42,280, “Child and Adult Care Food Program - Jardine Site.”

OFFICE OF STUDENT LIFE

UNIVERSITY COUNSELING SERVICES
Arck Jr, William, City of Manhattan, KS, $25,463, “Youth Oriented Alcohol Abuse Prevention Program.”
Newton, Fred B., Sunflower Foundation, $22,862, “Moving and Mentoring.”

VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT
Lynch, Michael L., Kauffman Scholars, Inc., $100,403, “Campus Residential Institutes for Kauffman Scholars.”
Lynch, Michael L., Kauffman Scholars, Inc., $120,850, “Campus Residential Institutes for Kauffman Scholars.”

VICE PRESIDENT FOR RESEARCH
BIOTECHNOLOGY DESIGN LABORATORY
Tomich, John M., Multisponsor, $82,618, “Biotechnology Laboratory Support.”

ELECTRONICS DESIGN LABORATORY
Sobering, Timothy J., Multisponsor, $218,212, “Electronics Design Laboratory Support.”

NATIONAL AGRICULTURAL BIOSECURITY CENTER

OFFICE OF RESEARCH AND SPONSORED PROGRAMS
Guikema, James A., National Science Foundation, $40,500, “2007 National Science Foundation Graduate Research Fellowship Award - Matthew T. Basel.”

Guikema, James A., Eckels, Steven J. (Institute for Environmental Research), Erickson, Larry E. (Center for Hazardous Substance Research), and Leven, Blase A. (Center for Hazardous Substance Research), US Department of Defense, “Urban Operations Laboratory.”

OFFICE OF THE VICE PRESIDENT FOR RESEARCH
Trewyn, R. W., Kansas Bioscience Authority, $1,548,000, “KSU Biosecurity Research Institute Technology Award.”
Trewyn, R. W., Kansas State University Research Foundation, $251,737, “KSU Research Foundation Staff Compensation.”
SECTION 2: EXPENDITURES

DIRECT COST EXPENDITURES BY COLLEGE AND EXTENSION*

Fiscal Year 2008

Technology and Aviation $105,756
Veterinary Medicine $5,284,415
Human Ecology $11,874,317
Engineering $12,424,759
Education $7,013,590
Cooperative Extension Service $2,419,207
Business Administration $384,860
Agriculture $16,927,335
Architecture, Planning and Design $75,449
Arts and Sciences $16,040,203

*Note: Data provided by the KSU Controller’s Office, Sponsored Projects Accounting
## EXPENDITURES FOR SPONSORED EXTRAMURAL FUNDING BY COLLEGE AND EXTENSION DEPARTMENT*

### Fiscal Year 2008

<table>
<thead>
<tr>
<th>College of Agriculture</th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Agriculture and Director of AES</td>
<td>19,722.11</td>
<td>0.00</td>
<td>19,722.11</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>1,743,696.12</td>
<td>303,440.41</td>
<td>2,047,136.53</td>
</tr>
<tr>
<td>Agronomy</td>
<td>4,191,941.64</td>
<td>379,181.79</td>
<td>4,571,123.43</td>
</tr>
<tr>
<td>Animal Sciences and Industry</td>
<td>1,757,569.02</td>
<td>299,281.56</td>
<td>2,056,850.58</td>
</tr>
<tr>
<td>Communications</td>
<td>79,549.14</td>
<td>8,204.85</td>
<td>87,753.99</td>
</tr>
<tr>
<td>Entomology</td>
<td>1,390,941.92</td>
<td>194,205.88</td>
<td>1,585,147.80</td>
</tr>
<tr>
<td>Grain Science and Technology</td>
<td>1,216,336.87</td>
<td>153,413.37</td>
<td>1,369,750.24</td>
</tr>
<tr>
<td>Horticulture, Forestry and Recreation Resources</td>
<td>444,281.64</td>
<td>71,358.28</td>
<td>515,639.92</td>
</tr>
<tr>
<td>International Agricultural Programs</td>
<td>3,838.63</td>
<td>0.00</td>
<td>3,838.63</td>
</tr>
<tr>
<td>Plant Pathology</td>
<td>3,615,333.74</td>
<td>408,145.70</td>
<td>4,023,479.44</td>
</tr>
<tr>
<td>Kansas Center for Ag. Resource &amp; Env</td>
<td>916,983.61</td>
<td>46,419.04</td>
<td>963,402.65</td>
</tr>
<tr>
<td>Agricultural Experiment Station</td>
<td>319,607.88</td>
<td>32,301.32</td>
<td>351,909.20</td>
</tr>
<tr>
<td>Northwest Research Extension Center</td>
<td>257,990.70</td>
<td>0.00</td>
<td>257,990.70</td>
</tr>
<tr>
<td>Agricultural Research Center-Hays</td>
<td>241,571.74</td>
<td>0.00</td>
<td>241,571.74</td>
</tr>
<tr>
<td>Southwest Research Extension Center</td>
<td>36,705.89</td>
<td>617.79</td>
<td>37,323.68</td>
</tr>
<tr>
<td>Southeast Agricultural Research Center</td>
<td>43,985.09</td>
<td>74.89</td>
<td>44,059.98</td>
</tr>
<tr>
<td>Food Science Institute</td>
<td>647,280.04</td>
<td>9,558.67</td>
<td>656,838.71</td>
</tr>
<tr>
<td><strong>Total-College of Agriculture</strong></td>
<td><strong>16,927,335.78</strong></td>
<td><strong>1,906,203.55</strong></td>
<td><strong>18,833,539.33</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Architecture and Design</th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>58,853.49</td>
<td>18,778.85</td>
<td>77,632.34</td>
</tr>
<tr>
<td>Landscape Architecture/Regional &amp;Community Plan.</td>
<td>16,596.44</td>
<td>817.83</td>
<td>17,414.27</td>
</tr>
<tr>
<td><strong>Total-College of Architecture &amp; Design</strong></td>
<td><strong>75,449.93</strong></td>
<td><strong>19,596.68</strong></td>
<td><strong>95,046.61</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
<td>1,561,088.07</td>
<td>554,814.69</td>
<td>2,115,902.76</td>
</tr>
<tr>
<td>Biology</td>
<td>6,817,987.81</td>
<td>1,469,305.39</td>
<td>8,287,293.20</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1,451,471.33</td>
<td>409,565.02</td>
<td>1,861,036.35</td>
</tr>
<tr>
<td>Economics</td>
<td>27,650.68</td>
<td>1,194.99</td>
<td>28,845.67</td>
</tr>
<tr>
<td>English</td>
<td>2,650.00</td>
<td>0.00</td>
<td>2,650.00</td>
</tr>
<tr>
<td>Geography</td>
<td>181,458.50</td>
<td>50,920.63</td>
<td>232,379.13</td>
</tr>
<tr>
<td>Geology</td>
<td>25,230.86</td>
<td>3,351.55</td>
<td>28,582.41</td>
</tr>
<tr>
<td>History</td>
<td>16,186.42</td>
<td>0.00</td>
<td>16,186.42</td>
</tr>
<tr>
<td>James R. MacDonald Laboratory</td>
<td>1,699,866.48</td>
<td>746,945.37</td>
<td>2,446,811.85</td>
</tr>
<tr>
<td>School of Journalism and Mass Communication</td>
<td>127,176.38</td>
<td>4,468.32</td>
<td>131,644.70</td>
</tr>
<tr>
<td>Mathematics</td>
<td>160,897.76</td>
<td>48,482.55</td>
<td>209,380.31</td>
</tr>
<tr>
<td>Music</td>
<td>11,317.72</td>
<td>0.00</td>
<td>11,317.72</td>
</tr>
<tr>
<td>Philosophy</td>
<td>46,740.09</td>
<td>21,500.34</td>
<td>68,240.43</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>29,707.48</td>
<td>2,420.99</td>
<td>32,128.47</td>
</tr>
<tr>
<td>Physics</td>
<td>3,163,070.96</td>
<td>1,062,012.23</td>
<td>4,225,083.19</td>
</tr>
<tr>
<td>Psychology</td>
<td>191,760.74</td>
<td>26,456.74</td>
<td>218,217.48</td>
</tr>
<tr>
<td>Sociology, Anthropology, &amp; Social Work</td>
<td>215,002.70</td>
<td>22,303.04</td>
<td>237,305.74</td>
</tr>
<tr>
<td>Speech, Communications, Theatre and Dance</td>
<td>321.51</td>
<td>0.00</td>
<td>321.51</td>
</tr>
<tr>
<td>Statistics</td>
<td>19,303.68</td>
<td>8,879.69</td>
<td>28,183.37</td>
</tr>
<tr>
<td>Community Health Institute</td>
<td>291,314.73</td>
<td>68,282.94</td>
<td>359,597.67</td>
</tr>
<tr>
<td><strong>Total-College of Arts and Sciences</strong></td>
<td><strong>16,040,203.90</strong></td>
<td><strong>4,501,104.48</strong></td>
<td><strong>20,541,308.38</strong></td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>DIRECT COSTS</td>
<td>FACILITIES AND ADMINISTRATIVE COSTS</td>
<td>TOTAL</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------------</td>
<td>-------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Dean of Business Administration</td>
<td>244,314.09</td>
<td>-63.16</td>
<td>244,250.93</td>
</tr>
<tr>
<td>Accounting</td>
<td>70,692.21</td>
<td>0.00</td>
<td>70,692.21</td>
</tr>
<tr>
<td>Management</td>
<td>69,853.80</td>
<td>28,140.37</td>
<td>97,994.17</td>
</tr>
<tr>
<td><strong>Total-College of Business Admin</strong></td>
<td>384,860.10</td>
<td>28,077.21</td>
<td>412,937.31</td>
</tr>
</tbody>
</table>

**Cooperative Extension Services**

<table>
<thead>
<tr>
<th></th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of Cooperative Extension</td>
<td>86,366.70</td>
<td>0.00</td>
<td>86,366.70</td>
</tr>
<tr>
<td>4-H Youth Development</td>
<td>113,865.92</td>
<td>0.00</td>
<td>113,865.92</td>
</tr>
<tr>
<td>Kansas Forest Service</td>
<td>1,634,477.92</td>
<td>9,557.22</td>
<td>1,644,035.14</td>
</tr>
<tr>
<td>Agriculture and Natural Resources</td>
<td>529,401.97</td>
<td>0.00</td>
<td>529,401.97</td>
</tr>
<tr>
<td>Northwest Area Office</td>
<td>-98.46</td>
<td>5,247.11</td>
<td>5,148.65</td>
</tr>
<tr>
<td>Southwest Area Office</td>
<td>52,526.98</td>
<td>0.00</td>
<td>52,526.98</td>
</tr>
<tr>
<td>Northeast Area Office</td>
<td>610.30</td>
<td>0.00</td>
<td>610.30</td>
</tr>
<tr>
<td>Southeast Area Office</td>
<td>2,056.64</td>
<td>0.00</td>
<td>2,056.64</td>
</tr>
<tr>
<td><strong>Total-Cooperative Extension Services</strong></td>
<td>2,419,207.97</td>
<td>14,804.33</td>
<td>2,434,012.30</td>
</tr>
</tbody>
</table>

**College of Education**

<table>
<thead>
<tr>
<th></th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Education</td>
<td>6,437,097.17</td>
<td>467,213.42</td>
<td>6,904,310.59</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>198,614.44</td>
<td>1,433.32</td>
<td>200,047.76</td>
</tr>
<tr>
<td>Counseling and Education Psychology</td>
<td>3,500.00</td>
<td>0.00</td>
<td>3,500.00</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>246,472.64</td>
<td>18,621.71</td>
<td>265,094.35</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>127,906.00</td>
<td>4,588.56</td>
<td>132,494.56</td>
</tr>
<tr>
<td><strong>Total-College of Education</strong></td>
<td>7,013,590.25</td>
<td>491,857.01</td>
<td>7,505,447.26</td>
</tr>
</tbody>
</table>

**College of Engineering**

<table>
<thead>
<tr>
<th></th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Engineering</td>
<td>263,883.55</td>
<td>118,173.96</td>
<td>382,057.51</td>
</tr>
<tr>
<td>Biological &amp; Agricultural Engineering</td>
<td>1,507,967.48</td>
<td>147,258.24</td>
<td>1,655,225.72</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>478,736.35</td>
<td>1,105,920.12</td>
<td>678,656.47</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>1,180,914.64</td>
<td>323,857.42</td>
<td>1,504,772.06</td>
</tr>
<tr>
<td>Computing &amp; Information Sciences</td>
<td>1,266,957.17</td>
<td>438,643.48</td>
<td>1,705,600.65</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>578,059.40</td>
<td>220,508.58</td>
<td>798,567.98</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>319,420.78</td>
<td>122,571.32</td>
<td>442,052.10</td>
</tr>
<tr>
<td>Institute for Environmental Research</td>
<td>324,262.13</td>
<td>123,266.45</td>
<td>447,528.58</td>
</tr>
<tr>
<td>Industrial &amp; Manufacturing Systems Engineering</td>
<td>399,421.69</td>
<td>118,428.33</td>
<td>517,850.02</td>
</tr>
<tr>
<td>Mechanical and Nuclear Engineering</td>
<td>1,963,688.02</td>
<td>569,783.31</td>
<td>2,533,471.33</td>
</tr>
<tr>
<td>Advanced Manufacturing Institute</td>
<td>1,666,664.16</td>
<td>433,073.34</td>
<td>2,100,076.50</td>
</tr>
<tr>
<td>Kansas Industrial Extension Services</td>
<td>850,719.20</td>
<td>160,666.26</td>
<td>1,011,385.46</td>
</tr>
<tr>
<td>Center for Hazardous Substances Research</td>
<td>1,109,043.44</td>
<td>439,600.37</td>
<td>1,548,643.81</td>
</tr>
<tr>
<td>National Institute for Land Management &amp; Training</td>
<td>188,626.07</td>
<td>68,332.99</td>
<td>257,159.06</td>
</tr>
<tr>
<td>National Gas Machinery Laboratory</td>
<td>326,395.47</td>
<td>106,935.75</td>
<td>433,331.22</td>
</tr>
<tr>
<td><strong>Total-College of Engineering</strong></td>
<td>12,424,759.55</td>
<td>3,455,889.14</td>
<td>15,880,648.69</td>
</tr>
</tbody>
</table>

**College of Human Ecology**

<table>
<thead>
<tr>
<th></th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Human Ecology</td>
<td>5,033,335.08</td>
<td>539,306.43</td>
<td>5,572,641.51</td>
</tr>
<tr>
<td>Hotel, Restaurant, Institution Management &amp; Dietetics</td>
<td>86,026.00</td>
<td>21,539.52</td>
<td>107,565.52</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>649,685.00</td>
<td>120,360.16</td>
<td>770,045.16</td>
</tr>
<tr>
<td>School of Family Studies &amp; Human Services</td>
<td>6,105,271.79</td>
<td>172,597.70</td>
<td>6,277,531.49</td>
</tr>
<tr>
<td><strong>Total-College of Human Ecology</strong></td>
<td>11,874,317.87</td>
<td>853,465.81</td>
<td>12,727,783.68</td>
</tr>
</tbody>
</table>
### Salina College of Technology

<table>
<thead>
<tr>
<th>Dept/Program</th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of College of Tech and Aviation</td>
<td>6,112.52</td>
<td>18,163.43</td>
<td>24,275.95</td>
</tr>
<tr>
<td>Aviation</td>
<td>0.00</td>
<td>394.26</td>
<td>394.26</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>99,643.93</td>
<td>0.00</td>
<td>99,643.93</td>
</tr>
<tr>
<td><strong>Total-Salina College of Technology</strong></td>
<td><strong>105,756.45</strong></td>
<td><strong>18,557.69</strong></td>
<td><strong>124,314.14</strong></td>
</tr>
</tbody>
</table>

### Veterinary Medical Center

<table>
<thead>
<tr>
<th>Dept/Program</th>
<th>DIRECT COSTS</th>
<th>FACILITIES AND ADMINISTRATIVE COSTS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of Veterinary Medical Center</td>
<td>413,297.30</td>
<td>2,233.21</td>
<td>415,530.51</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
<td>2,479,555.82</td>
<td>822,273.26</td>
<td>3,301,829.08</td>
</tr>
<tr>
<td>Diagnostic Medicine/Pathobiology</td>
<td>1,719,685.55</td>
<td>375,299.07</td>
<td>2,094,984.62</td>
</tr>
<tr>
<td>Clinical Sciences</td>
<td>647,300.25</td>
<td>114,826.09</td>
<td>762,126.34</td>
</tr>
<tr>
<td>Veterinary Medical Teaching Hospital</td>
<td>24,576.25</td>
<td>-0.01</td>
<td>24,576.24</td>
</tr>
<tr>
<td><strong>Total-Veterinary Medical Center</strong></td>
<td><strong>5,284,415.17</strong></td>
<td><strong>1,314,631.62</strong></td>
<td><strong>6,599,046.79</strong></td>
</tr>
</tbody>
</table>

### Grand Total

<table>
<thead>
<tr>
<th></th>
<th><strong>72,549,896.97</strong></th>
<th><strong>12,604,187.52</strong></th>
<th><strong>85,154,084.49</strong></th>
</tr>
</thead>
</table>
## UNIVERSITY SMALL RESEARCH GRANTS

University Small Research Grants are awarded by the Office of Research and Sponsored Programs to support the research, scholarly activity and other creative efforts of tenure-track faculty members.

### Fall 2007 Awards

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Amount</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aikens, Christine</td>
<td>Chemistry</td>
<td>$2,000</td>
<td>study entitled Self-Assembly and Optical Properties of Nanoparticle Superlattices</td>
</tr>
<tr>
<td>An, Soontae</td>
<td>Journalism and Mass Communications</td>
<td>$2,500</td>
<td>study entitled Youth Understanding of Embedded Commercial Content in WWW Sites: Online Advergames and Children’s Detection of Persuasive Intents</td>
</tr>
<tr>
<td>Anderson, Jared</td>
<td>Family Studies and Human Services</td>
<td>$3,000</td>
<td>study entitled the Transition to Marriage in the United States Army</td>
</tr>
<tr>
<td>Betz, Emma</td>
<td>Modern Languages</td>
<td>$3,000</td>
<td>study entitled Person References in German conversation</td>
</tr>
<tr>
<td>Brueseke, Matthew</td>
<td>Geology</td>
<td>$2,500</td>
<td>study entitled Magmatism and mineralization in the Owyhee Mountains, ID</td>
</tr>
<tr>
<td>Dow, Douglas</td>
<td>Art</td>
<td>$4,000</td>
<td>study entitled Rebuilding Brotherhood: The Renewal of Florentine Confraternities in the Age of Reform</td>
</tr>
<tr>
<td>Esmaeley, Asadollah</td>
<td>Civil Engineering</td>
<td>$2,500</td>
<td>study entitled Development of a Reinforced Concrete Virtual Laboratory</td>
</tr>
<tr>
<td>Kershner, Tiffany</td>
<td>Sociology, Anthropology, and Social Work</td>
<td>$5,000</td>
<td>study entitled Documentation of Çişubiya, a Language of the Caprivi Strip Region of Namibia</td>
</tr>
<tr>
<td>Kim, Jeong-Hee</td>
<td>Secondary Education</td>
<td>$1,500</td>
<td>study entitled The Emerging Relationality among Narrative Inquiry, Embodiment, and Teachers as Researchers</td>
</tr>
<tr>
<td>Lee, Kyoungmi</td>
<td>Marketing</td>
<td>$1,500</td>
<td>study entitled Impacts of Stereotypes on Consumer Judgments and Subjective Well-Being</td>
</tr>
<tr>
<td>Marzluf, Phillip</td>
<td>English</td>
<td>$500</td>
<td>study entitled Responding to Evangelical Literacy in College Writing Classrooms</td>
</tr>
<tr>
<td>Song, Weixing</td>
<td>Statistics</td>
<td>$2,500</td>
<td>study entitled Improved Statistical Inference Procedures and R-Package in Bioassay</td>
</tr>
<tr>
<td>Van Der Merwe, Deon</td>
<td>Diagnostic Medicine/Pathobiology</td>
<td>$2,000</td>
<td>study entitled the Use of Cockroaches as Sentinels for Detecting Environmental Lead Contamination in Urban Settings</td>
</tr>
<tr>
<td>Yu, Han</td>
<td>English</td>
<td>$2,500</td>
<td>study entitled Understanding Technical Communication in China: Demands, Current Practices, and Future Development</td>
</tr>
</tbody>
</table>

### Spring 2008 Awards

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Amount</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bergamasco, Luciana</td>
<td>Clinical Sciences</td>
<td>$2,500</td>
<td>study entitled Electroencephalography Assessment in Adult and Geriatric Horses: Visual and Background Quantitative Analysis</td>
</tr>
<tr>
<td>Bossmann, Stefan</td>
<td>Chemistry</td>
<td>$1,700</td>
<td>study entitled Femtosecond Spectroscopy at Ohio State University for the Optimization of Artificial Photosynthesis</td>
</tr>
<tr>
<td>Brase, Gary</td>
<td>Psychology</td>
<td>$1,500</td>
<td>purchase Laboratory Equipment Upgrade and Expansion</td>
</tr>
<tr>
<td>Burrack, Frederick</td>
<td>Music</td>
<td>$1,000</td>
<td>study entitled Effective and Ineffective Music Facility Designs in Kansas Schools</td>
</tr>
<tr>
<td>Cai, Gangshu</td>
<td>Management</td>
<td>$500</td>
<td>study entitled The Impact of iPhone on the Wireless Market</td>
</tr>
<tr>
<td>Chilton, Michael</td>
<td>Management</td>
<td>$1,000</td>
<td>Computer-Related Technology Usage in Kansas Veterinary Practices</td>
</tr>
<tr>
<td>Cully, Jr, Jack</td>
<td>Biology</td>
<td>$1,000</td>
<td>study entitled Using Molecular Markers to Infer Dispersal Rates and Epidemiological Roles of Small Mammals</td>
</tr>
<tr>
<td>Dogan, Hulya</td>
<td>Grain Science</td>
<td>$2,000</td>
<td>study entitled Understanding the Milling Behavior of Wheat: A Glass Transition and Phase/State Behavior Approach</td>
</tr>
<tr>
<td>Frey, Timothy</td>
<td>Special Education, Counseling, and Student Affairs</td>
<td>$750</td>
<td>Design and Evaluation of an On-line Model of Professional Development for K-12 In-Service teachers in Rural Schools</td>
</tr>
<tr>
<td>Frey, Marsha</td>
<td>History</td>
<td>$750</td>
<td>study entitled Diplomatic Culture Revolutionary France</td>
</tr>
<tr>
<td>Gabbard, R. Todd</td>
<td>Architecture</td>
<td>$1,000</td>
<td>study entitled The Comparative Effectiveness of Sustainably Constructed Homes</td>
</tr>
<tr>
<td>Hedrick, Donald</td>
<td>English</td>
<td>$500</td>
<td>study entitled Folger Shakespeare Library Research on the Figure of the “Friend” in Shakespeare</td>
</tr>
<tr>
<td>Ito, Takashi</td>
<td>Chemistry</td>
<td>$1,500</td>
<td>study entitled Computer Simulation of Biological Separation within Nanostructured Channels Fabricated Using Multiphoton Photolithography</td>
</tr>
<tr>
<td>Klocke, Emily</td>
<td>Clinical Sciences</td>
<td>$2,000</td>
<td>study entitled Verification of a Continuous Glucose Monitor for Use in Anesthetized Patients and the Prevalence of Hypoglycemia During Surgery for Portosystemic Shunt Attenuation</td>
</tr>
<tr>
<td>Kulcsar, Laszlo</td>
<td>Sociology, Anthropology, and Social Work</td>
<td>$2,000</td>
<td>study entitled Migration Networks and Community Development, The Case of Emporia, Kansas</td>
</tr>
<tr>
<td>Long, Stephen</td>
<td>Political Science</td>
<td>$1,000</td>
<td>study entitled Creation of a New War Casualties Data set, 1816-2007</td>
</tr>
<tr>
<td>Nippert, Jesse</td>
<td>Biology</td>
<td>$2,500</td>
<td>study entitled Linking Water Availability to Tamarix Ecophysiology in Southwest Kansas</td>
</tr>
<tr>
<td>Palmatier, Matthew</td>
<td>Psychology</td>
<td>$2,000</td>
<td>study entitled Incentive Value of Nicotine and Non-Nicotine Reinforcers</td>
</tr>
<tr>
<td>Spencer, Joel</td>
<td>Geology</td>
<td>$4,500</td>
<td>study entitled A Pilot Study of Luminence Age and Thermometric Properties of San Andreas Fault Observatory at Depth Stage III Fault Gouge Samples</td>
</tr>
<tr>
<td>Swilley, Esther</td>
<td>Marketing</td>
<td>$500</td>
<td>study entitled Investigation into Mobile Atmospherics: Designing the Ideal Mobile Marketing Environment</td>
</tr>
<tr>
<td>Teagarden, James</td>
<td>Special Education, Counseling, and Student Affairs</td>
<td>$1,000</td>
<td>Factors Relating to Implementing Seclusion with Kansas</td>
</tr>
<tr>
<td>Von Ohlen, Tonia</td>
<td>Biology</td>
<td>$1,250</td>
<td>study entitled Understanding Regulation of an Msx Class Homeobox Gene</td>
</tr>
<tr>
<td>Wong, Brett</td>
<td>Kinesiology</td>
<td>$2,000</td>
<td>study entitled Contribution of Sensory Nerves and TRPV-1 Channels to Cutaneous Active Vasodilation in Humans</td>
</tr>
<tr>
<td>Spencer, Joel</td>
<td>Geology</td>
<td>$4,500</td>
<td>study entitled A Pilot Study of Luminence Age and Thermometric Properties of San Andreas Fault Observatory at Depth Stage III Fault Gouge Samples</td>
</tr>
<tr>
<td>Wisely, Samantha</td>
<td>Biology</td>
<td>$1,500</td>
<td>study entitled Habitat-Specific Host Dynamics in an Urban to Rural Ecotone</td>
</tr>
</tbody>
</table>
Faculty Development Awards

Faculty Development Awards are awarded by the Office of Research and Sponsored Programs and serve primarily as travel awards. They can be used for travel to international meetings, travel for foreign exchange, travel to the offices of potential external funding sponsors, and as matching funds on certain fellowships. They cannot be used for research travel.

**Fall 2007 Awards**

Aikens, Christine, Chemistry, $900; to visit Air Force Office of Scientific Research program officers in Washington, DC

Baptist, Joyce, Human Ecology, $900; to participate in Competent Care: Supervision Training for Mental Health Professionals in Malaysia

Benson, Janet, Sociology, Anthropology, and Social Work, $500; to present at the Society for Multi-Ethnic Studies: Europe and the Americas conference in the Netherlands

Brase, Gary, Psychology, $2,000; to present at the Human Behavior and Evolution Society annual meeting in Japan

Cassou, Steven, Economics, $1,500; to present at the International Conference on Environmental Economics Conference and Investment Assessment in Spain

Charney, Wayne, Architecture, $1,000; to present at the International Arts and the Humanities Conference in Hawaii

Clark, Robert, Modern Languages, $560; to present at the University Pantheon-Sorbonne in France

Dayton, Timothy, English, $1,000; to present at the Historical Materialism Conference in England

Donnelly, Michael, English, $1,000; lecturer/professor exchange with Charles University in the Czech Republic

Freeman, Lisa, Veterinary Medicine, $600; to meet with embassy, agriculture and university officials in Brazil

Harrington, Lisa, Geography, $500; to attend Space to Place: The Next Rural Economies Workshop in British Columbia

Hillard, Derek, Modern Languages, $1,500; to present at the European Network for Avant-Garde and Modernism Studies Conference in Belgium

Machor, James, English, $1,000; speaker/participant at the International Conference on Literature, History, and the Anxiety of Disciplinarity in Israel

Martinez-Ortiz, Maria, Modern Languages, $2,000; to present at the City in Film Conference in the United Kingdom

McCrea, Heather, History, $2,000; to present at the History of Latin American and Caribbean Environment in Brazil

Pakaste, Mervi, Art, $500; to present at the Hatch Show Print in Tennessee

Pentz, Julie, Dance, $1,000; to study African dance forms at Dagara Music and Arts Center in Ghana

Soibelman, Yan, Mathematics, $500; to collaborate with University of Paris researchers and attend the Institute of Advanced Research in France

Wang, WeiQun, Human Nutrition, $1,500; to present at the Institute of Animal Husbandry and Veterinary Science in China

Yu, Julie, Music, $1,000; choral lecturer/keynote speaker at European Music Educators Association Conference in Italy

Yum, Young-Ok, Speech Communication, $2,000; to present at the International Communication Association Conference in Canada

**Spring 2008 Awards**

An, Soontae, Journalism and Mass Communications, $1,000; to present at the International Association for Media and Communication Research in Sweden

Arnds, Peter, Modern Languages, $750; to present at the International Society for the Study of European Ideas conference in Finland

Askey, Dale, Libraries, $500; to present at the Berlin Library Colloquium in Germany

Askey, Jennifer Drake, Modern Languages, $1,000; to present at the Women Writers of the 18th and 19th Centuries conference in England

Belanger, Blake, Landscape Architecture, $700; to present at the European Council of Landscape Architecture Schools Conference in Sweden

Benson, Douglas, Modern Languages, $700; to present at the Annual American Association of Teachers of Spanish and Portuguese meeting in Costa Rica

Berry, Vikas, Chemical Engineering, $1,000; to present at the Trends in Nanotechnology Workshop in Sweden

Betz, Emma, Modern Languages, $1,000; to participate in Pivots in Conversation from a Cross-Linguistic Germanic Perspective workshop in Sweden

Cai, Liang-Wu, Mechanical and Nuclear Engineering, $2,000; to present at the Acoustics ‘08 Paris -- Joint Acoustical Society of America and European Acoustics Association conference in France

Castano-Bernard, Ricardo, Mathematics, $1,000; to present at the Institute des Haute ‘Etudes Scientifiques in France

Clem, Rollie, Biology, $1,200; to present at the Society for Invertebrate Pathology Meeting in the United Kingdom

Dayton, Timothy, English, $900; Historical Materialism Conference; England

Dodd, Elizabeth, English, $2,500; speaker at the Region, Nation, Literature Conference and Research trip to Standing Stones in Outer Hebrides in Scotland

Haar, Sherry, Apparel, Textiles, and Interior Design, $2,000; to attend the International Shibori Symposium in France

Hateley, Erica, English, $2,000; to present at the Australasian Children's Literature Association for Research Conference in New Zealand

Hubbell, Amy, Modern Languages, $2000; to present at the Borders and Crossings: Bilingual Conference in Australia

Janda, Swinder, Marketing, $1,000; to present at the Recent Advances in Retailing and Services Science Conference in Croatia

Kisangani, Emizet, Political Science, $1,000; to present at the Global International Studies Conference in Slovenia

Kambhampati, Srinivas, Entomology, $1,000; to present at the XXIII International Congress of Entomology in South Africa

McGlynn, Michael, Architecture, and Gabbard, R. Todd, Architecture, $1000; to present at the Oxford Conference 2008 and attend the Society for Building Science Educators Meeting both in the United Kingdom
McHaney, Roger, Management, $1,000; to present at the Conference on Recent Advances in Retailing and Services Science in Croatia

Muturi, Nancy, Journalism and Mass Communications, $1,500; to present at the Association for Media and Communication Research Conference in Sweden

Park, Yoonseong, Entomology, $1,000; to present at the International Congress of Entomology in South Africa

Poggi-Corradini, Pietro, Mathematics, $1,000; to present at the Holomorphic Iteration, Semigroups and Loewner Chains Workshop in Italy

Potts, Donna, English, $1,000; speaker at the International Conference on the Literature Region and Nation in Scotland

Ramm, Alexander, Mathematics, $1,000; keynote speaker at the World Congress of Nonlinear Analysts in Florida

Sabates, Marcelo, Philosophy, $1,000; to present at the Symposium for Cognition, Logic and Communication in Latvia

Sandercock, Brett, Biology, $500; to attend the Grouse Symposium in the Yukon Territory

Selfa, Theresa, Sociology, $2,000; to present at the Sociological Association Meeting in Spain

Spencer, Joel, Geology, $2,000; to present at the Luminescence and Electron Spin Resonance Dating Conference in China

Turchin, Victor, Mathematics, $1,000; to present at the Max Planck Institute of Mathematics in Germany

Watts, Carol, Architecture, $1,200; to present at the Conference of the International Association for the Study of Traditional Environments in England

Watts, Donald, Architecture, $1,200; to present at the Conference of the International Association for the Study of Traditional Environments in England.
UNIVERSITY DISTINGUISHED PROFESSORS

JOHN M. BLAIR, Biology (2006)
FRANK BLECHA, Anatomy and Physiology (2001)
M. CHENGAPPA, Diagnostic Medicine/Pathobiology (2003)
C. LEWIS COCKE, Physics (1997)
GARY W. CONRAD, Biology (1998)
ROBIN DENELL, Biology, (2000)
I. T. FAN, Chemical Engineering (1987)
BIKRAM S. GILL, Plant Pathology (1997)
DAVID HARTNETT, Biology (2004)
DALE HERSPRING, Political Science (2007)
JONATHAN HOLDEN, English (1988)
DUY HUA, Chemistry (2007)
YOSHIRO IKEDA, Art (2004)
HONGXING JIANG, Physics (2004)
MICHAEL R. KANOST, Biochemistry (2005)
KENNETH KLABUNDE, Chemistry (1988)
ALAN KNAPP, Biology (2002)
CHII-DONG LIN, Physics (1990)
DAVID LITTRELL, Music (2001)
DANIEL C. MARCUS, Anatomy and Physiology (2006)
JAMES L. MARSDEN, Regents Distinguished Professor of Animal Sciences (1994)
RICHARD A. MARSTON, Geography (2006)
SUBBARATNAM MUTHUKRISHNAN, Biochemistry (2007)
E. WAYNE NAFZIGER, Economics (1999)
VINCENT ORTIZ, Chemistry (2004)
HARALD E.L. PRINS, Anthropology (2005)
TALAT RAHMAN, Physics (2001)
SONNY RAMASWAMY, Entomology (2004)
PATRICK RICHARD, Cortelyou-Rust Distinguished Professor of Physics (1988)
TOM ROCHE, Biochemistry (2002)
SADAHIRO SAeki, Mathematics (1988)
DAVID A. SCHMIDT, Computing and Information Sciences (2003)
JAMES SHANTEAU, Psychology (2005)
TED SCHROEDER, Agricultural Economics (2004)
CHRISTOPHER SORENSEN, Physics, (2000)
BRIAN S. SPOONER, Biology (1999)
MICHAEL W. SULEIMAN, Political Science (1990)
LARRY TAKEMOTO, Biology (2001)
BARBARA VALENT, Plant Pathology (2002)
DEAN ZOLLMAN, Physics (2001)

A COMPLETE LISTING, INCLUDING UNIVERSITY DISTINGUISHED PROFESSORS EMERITUS, APPEARS AT WWW.KSU.EDU/GRAD/FACULTY/GRADPRO.HTM
RECIPIENTS OF THE DISTINGUISHED GRADUATE FACULTY AWARD

The Distinguished Graduate Faculty Award is made annually to those faculty members who have distinguished themselves nationally and internationally for their excellence in research and graduate education. Normally, up to two faculty members are selected annually by a group of faculty peers. Recipients receive an honorarium and deliver a public lecture following selection for this award.

JOHN F. HELM Architecture and Applied Arts 1955-56
HILMER H. LADE Agronomy 1955-56
ALVIN B. CARDWELL Physics 1956-57
CHARLES H. SCHOLER Applied Mechanics 1956-57
HOWARD T. HILL Speech 1957-58
ARTHUR D. WEBER College of Agriculture 1957-58
CHARLES M. CORRELL History 1958-59
LEON R. QUINLAN Landscape Architecture 1958-59
FRANCIS D. FARRELL President Emeritus 1959-60
FRED L. PARRISH History 1959-60
KLING L. ANDERSON Agronomy 1960-61
HOLLY C. FRYER Statistics 1960-61
A. M. GUHL Zoology 1961-62
H. HENLEY HAYMAKER Botany 1961-62
ROBERT KATZ Physics 1962-63
ERLE E. BARTLEY Dairy and Poultry Science 1963-64
ROY LANGFORD Psychology 1964-65
V. D. FOLTZ Bacteriology 1965-66
BREWSTER ROGERSON English 1966-67
JOHN A. JOHNSON Grain Science and Industry 1967-68
R. KENNETH BURKHARD Biochemistry 1968-69
CLIFTON E. MELOAN Chemistry 1969-70
ROBIN HIGHAM History 1970-71
ANGELO C. GARZIO Art 1971-72
L. T. FAN Chemical Engineering 1972-73
IVAN D. TEARE Agronomy 1973-74
STANLEY E. LELAND Veterinary Pathology 1974-75
RICHARD CONSIGLI Biology 1975-76
DUDLEY WILLIAMS Physics 1976-77
FREDERICK W. OEHME Surgery and Medicine 1977-78
ELMER G. HEYNE Agronomy 1978-79
DONALD W. SETSER Chemistry 1979-80
JAMES F. SHEPARD Plant Pathology 1980-81
ROGER FEDDE Anatomy and Physiology 1981-82
NASIR AHMED Electrical Engineering 1982-83
WILLIAM FATELEY Chemistry 1983-84
BURTON I. KAUFMAN History 1984-85
PATRICK RICHARD Physics 1984-85
JONATHAN HOLDEN English 1985-86
HORST LEIPOLD Pathology 1985-86
TERRY C. JOHNSON Biology 1986-87
MICHAEL W. SULEIMAN Political Science 1986-87
CORNELIA BUTLER FLORA Sociology 1987-88
RICHARD N. MCDONALD Chemistry 1987-88
MARGO KREN Art 1988-89
GERALD R. REECK Biochemistry 1988-89
BIKRAM S. GILL Plant Pathology 1989-90
PATRICIA J. O’BRIEN Sociology, Anthropology and Social Work 1989-90
BRIAN S. SPOONER Biology 1990-91
BENJAMIN R. TILGHMAN Philosophy 1990-91
ALBERT N. HAMSCHER History 1991-92
KENNETH J. KLABUNDE Chemistry 1991-92
C. LEWIS COCKE Physics 1992-93
JANE A. WESTFALL Anatomy and Physiology 1992-93
ROBIN E. DENELL Biology 1993-94
JOHN J. IANDOLO Pathology and Microbiology 1993-94
DONALD J. MROZEK History 1993-94
THEODORE L. HOPKINS Entomology 1994-95
THOMAS E. ROCHE Biochemistry 1994-95
GARY W. CONRAD Biology 1995-96
JAN E. LEACH Plant Pathology 1995-96
E. WAYNE NAFZIGER Economics 1995-96
ALEXANDER G. RAMM Mathematics 1996-97
CHRISTOPHER M. SORENSEN Physics 1996-97
FRANK BLECHA Anatomy and Physiology 1997-98
TALAT RAHMAN Physics 1997-98
ROLLIN SEARS Agronomy 1997-98
LARRY TAKEMOTO Biology 1998-99
MARSHA FREY History 1999-2000
ERIC MAATA Chemistry 1999-2000
GEORGE KEISER English 2000-01
PAUL SEIB Grain Science and Industry 2000-01
SCOT H. HULBERT Plant Pathology 2001-02
JOSEPH VINCENT ORTIZ Chemistry 2001-02
LARRY E. ERICKSON Chemical Engineering 2002-03
JAMES SHANTEAU Psychology 2002-03
DALE HERSPRING Political Science 2003-04
DAVID NORMAN Agricultural Economics 2003-04
DALLAS JOHNSON Statistics 2004-05
DUY HUA Chemistry 2004-05
EDGAR CHAMBERS IV Human Nutrition 2005-06
ALLEN FEATHERSTONE Agricultural Economics 2005-06
SUBBARAT MUTHUKRISHNAN Biochemistry 2006-07
PHILINE WANGEMANN Anatomy and Physiology 2006-07
DELORES J. FELD TAKEMOTO Biochemistry 2007-08
JAMES H. EDGAR Chemical Engineering 2007-08
U.S. PATENTS

Issued from July 1, 2007 to June 30, 2008 to the KSU Research Foundation
(Listed in reverse chronological order)

Rongqing Hui, Hong-Xing Jiang and Jing-Yu Lin “Method and Apparatus for Use of III-Nitride Wide Bandgap Semiconductors in Optical Communications” (#7,345,812)

Ravichandra S. Mulukutla, Paul S. Malchesky, Ronaldo Maghirang, John S. Klabunde, Kenneth J. Klabunde and Olga Koper “Metal Oxide Nanoparticles for Smoke Clearing and Fire Suppression” (#7,276,640)

Bhagavatula L.V. Prasad, Savka Stoeva, Kenneth J. Klabunde and Christopher Sorensen “Siloxanes and Methods of Synthesis Thereof Using Metallic Nanoparticle Catalysts” (#7,244,799)

The Kansas State University Research Foundation (KSURF), a not-for-profit 501(c)(3) corporation is assigned the responsibility for technology transfer activities for Kansas State University. KSURF secures legal protection (patents, copyrights, trademarks, etc.) for intellectual property created at the University and facilitates various commercialization efforts involving this property. Licensing and entrepreneurial initiatives are carried out by the National Institute for Strategic Technology Acquisition and Commercialization (NISTAC) in conjunction with KSURF.

E-mail: tech.transfer@ksu.edu
http://www.ksu.edu/tech.transfer
## FACULTY WITH AES RESEARCH APPOINTMENTS WHO RECEIVED EXTRAMURAL FUNDING IN FY08

### FISCAL YEAR 2008

**Agricultural Economics**
- Amanor-Baodu, Vincent
- Barkley, Andrew
- Boland, Michael
- Dhuyvetter, Kevin
- Jones, Rodney
- Kastens, Terry
- Mintert, James
- Peterson, Hikaru
- Schroeder, Ted
- Schurle, Bryan
- Williams, Jeffery

**Food Science Institute**
- Kastner, Curtis
- Getty, Kelly

**Communications**
- Boone, Kristina
- Ashlock, Marcus
- Terry, Roger

**Entomology**
- Phillips, Tom
- Broce, Alberto
- Cloyd, Ray
- Marshall, Jeremy
- Michaud, John
- Nechols, James
- Reese, John
- Smith, C. Michael
- Whitworth, Robert J.
- Wilde, Gerald

**Grain Science and Industry**
- Vacant (Virgil Smail)
- Alavi, Sajid
- Behnke, Keith
- Bhadriraju, Subramanyam
- Dogan, Hulya
- Faubion, Jon
- Gwirtz, Jeff
- Howard, John
- Madl, Ron
- McKinney, Leland
- Shi, Yong-Cheng
- Sun, Susan

**Horticulture, Forestry and Recreation Resources**
- Bremer, Dale
- Carey, Edward
- Fry, Jack
- Geyer, Wayne
- Griffin, Jason
- Jahnke, Rhonda
- Keeley, Steven
- Park, Sung Hun
- Reid, William
- Shoemaker, Candice
- St. John, Rodney
- Stevens, Alan
- Warner, Thomas
- Williams, Kimberly

**Plant Pathology**
- Akhunov, Eduard
- Bockus, William
- DeWolf, Erick
- Garrett, Karen
- Gill, Bikram
- Jandine, Douglas
- Kenelly, Megan
- Leslie, John
- Little, Christopher
- Nelson, James
- Stack, James
- Todd, Timothy
- Trick, Harold
- Valente, Barbara
- White, Frank

**ARCH-Hays**
- Kofoid, Kenneth
- Martin, Terry J.
- Seifers, Dallas
- Stahlman, Phillip

**NWREC-Colby**
- Aiken, Robert
- Lamm, Freddie

**SWREC-Garden City**
- Buschman, Lawrence
- Currie, Randall
- Holman, John
- Schlegel, Alan

**SERC-Parsons**
- Kelly, Kenneth
- Long, James
- Moyer, Joseph
- Sweeney, Daniel

**Biochemistry**
- Kanost, Michael
- Muthukrishnan, S.
- Reek, Gerald
- Takemoto, Delores
- Tomich, John
- Wei, Quze
- Zolkiewski, Michal
- Zuferey, Rachel

**Biostatistics**
- Gadbury, Gary

**Community Health**
- Dzewaltowski, David

**Biological & Agricultural Engineering**
- Barnes, Philip
- Hutchinson, Stacey
- Jim Koelliker
- Maghirang, Ronald
- Mankin, Kyle
- Wang, Donghai
- Yuan, Wenjiao
- Zhang, Nairian

**Human Nutrition**
- Chambers, Edgar
- Haub, Mark
- Medeiros, Denis
- Melgerejo, L Ton
- Wang, Weiqin

**Anatomy & Physiology**
- Blecha, Frank
- Schultz, Bruce
- Troyer, Deryl

**Diagnostic Medicine/Pathobiology**
- Chang, Kyeong-Ok
- Chowdury, Shafiqul
- Dritz, Steven
- Dryden, Michael
- Ganta, Roman
- Nagaraja, Tiruvo
- Nietfeld, Jerome
- Oberst, Richard
- Pickerell, John
- Renter, David
- Robertson, Donald
- Rowland, Raymond
- Wyatt, Carol

**Clinical Sciences**
- Coetzee, Johann
- Gehring, Ronette
- Thompson, Daniel
- White, Bradley

**Statistics**
- Statistics

**Agricultural Economics**
- Amanor-Baodu, Vincent
- Barkley, Andrew
- Boland, Michael
- Dhuyvetter, Kevin
- Jones, Rodney
- Kastens, Terry
- Mintert, James
- Peterson, Hikaru
- Schroeder, Ted
- Schurle, Bryan
- Williams, Jeffery

**Food Science Institute**
- Kastner, Curtis
- Getty, Kelly

**Communications**
- Boone, Kristina
- Ashlock, Marcus
- Terry, Roger

**Entomology**
- Phillips, Tom
- Broce, Alberto
- Cloyd, Ray
- Marshall, Jeremy
- Michaud, John
- Nechols, James
- Reese, John
- Smith, C. Michael
- Whitworth, Robert J.
- Wilde, Gerald

**Grain Science and Industry**
- Vacant (Virgil Smail)
- Alavi, Sajid
- Behnke, Keith
- Bhadriraju, Subramanyam
- Dogan, Hulya
- Faubion, Jon
- Gwirtz, Jeff
- Howard, John
- Madl, Ron
- McKinney, Leland
- Shi, Yong-Cheng
- Sun, Susan

**Horticulture, Forestry and Recreation Resources**
- Bremer, Dale
- Carey, Edward
- Fry, Jack
- Geyer, Wayne
- Griffin, Jason
- Jahnke, Rhonda
- Keeley, Steven
- Park, Sung Hun
- Reid, William
- Shoemaker, Candice
- St. John, Rodney
- Stevens, Alan
- Warner, Thomas
- Williams, Kimberly

**Plant Pathology**
- Akhunov, Eduard
- Bockus, William
- DeWolf, Erick
- Garrett, Karen
- Gill, Bikram
- Jandine, Douglas
- Kenelly, Megan
- Leslie, John
- Little, Christopher
- Nelson, James
- Stack, James
- Todd, Timothy
- Trick, Harold
- Valente, Barbara
- White, Frank

**ARCH-Hays**
- Kofoid, Kenneth
- Martin, Terry J.
- Seifers, Dallas
- Stahlman, Phillip

**NWREC-Colby**
- Aiken, Robert
- Lamm, Freddie

**SWREC-Garden City**
- Buschman, Lawrence
- Currie, Randall
- Holman, John
- Schlegel, Alan

**SERC-Parsons**
- Kelly, Kenneth
- Long, James
- Moyer, Joseph
- Sweeney, Daniel

**Biochemistry**
- Kanost, Michael
- Muthukrishnan, S.
- Reek, Gerald
- Takemoto, Delores
- Tomich, John
- Wei, Quze
- Zolkiewski, Michal
- Zuferey, Rachel

**Biostatistics**
- Gadbury, Gary

**Community Health**
- Dzewaltowski, David

**Biological & Agricultural Engineering**
- Barnes, Philip
- Hutchinson, Stacey
- Jim Koelliker
- Maghirang, Ronald
- Mankin, Kyle
- Wang, Donghai
- Yuan, Wenjiao
- Zhang, Nairian

**Human Nutrition**
- Chambers, Edgar
- Haub, Mark
- Medeiros, Denis
- Melgerejo, L Ton
- Wang, Weiqin

**Anatomy & Physiology**
- Blecha, Frank
- Schultz, Bruce
- Troyer, Deryl

**Diagnostic Medicine/Pathobiology**
- Chang, Kyeong-Ok
- Chowdury, Shafiqul
- Dritz, Steven
- Dryden, Michael
- Ganta, Roman
- Nagaraja, Tiruvo
- Nietfeld, Jerome
- Oberst, Richard
- Pickerell, John
- Renter, David
- Robertson, Donald
- Rowland, Raymond
- Wyatt, Carol

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