

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

May 2011

Abel, Steven R; pharmacy practice, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,272, "2011 GS SRG - PHPR."

Abramowitz, Harvey; mechanical engineering — Calumet campus, from Will Technology Inc, \$800, "Moonbuggy 2011 - Travel Funds."

Abu-Omar, Mahdi M; chemistry, from U.S. Department of Energy, \$155,000, "Oxo Catalysts for the Conversion of Lingocellulosic Biomass; Modification 5."

Adams, Douglas E; mechanical engineering, from Multi-Sponsored Industrials, \$20,000, "Purdue Center for Systems Integrity (PCSI) Consortium."

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, \$76,800, "Danisco."

Agnew, Christopher R; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$18,450, "2011 GS SRG - PHPR."

Ajuwon, Kolapo; animal sciences, from Danisco Animal Nutrition, \$13,000, "Research Gift Funds."

Alexeenko, Alina; aeronautical & astronautical engineering, from Veeco, \$22,714, "Flow Modeling in Conductance Tube of Linear Source."

Anderson, Donald J; hospitality & tourism, from Destination Marketing Association International, \$23,540, "Executive Program in Destination Management."

Appenzeller, Joerg; electrical & computer engineering, from International Business Machines Corp., \$30,000, "IBM Ph.D. Fellowship - Saptarshi Das."

Bagchi, Saurabh; electrical & computer engineering, from National Science Foundation, \$16,000, "REU Supplement: CSR: Small: Monitoring for Error Detection in Todays High Throughout Applications."

Bajaj, Anil K; mechanical engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$13,179, "2011 GS SRG - MECH."

Bajaj, Anil K; mechanical engineering, from Winifred B. Endowment Bilsland, \$19,346, "Hua M. Bao."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$21,086, "2011 GS SRG - ECEN."

Banks, Margaret K; civil engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, "2011 GS SRG - CIVL."

Banuelos, Rodrigo; mathematics, from Winifred B. Endowment Bilsland, \$19,346, "Mantero, Palo 2011-12 Bilsland Dissertaion Fellowship."

Banuelos, Rodrigo; mathematics, from National Science Foundation, \$110,000, "Levy Processes, Martingales and Spectral Theory; Amendment 1."

Banuelos, Rodrigo; mathematics, from Purdue Research Foundation (PRF) Summer Research Grants, \$50,079, "2011 2011 GS SRG - MATH."

Bertino, Elisa; computer science, from Nokia Research Center, \$13,500, "Sensing the Radio Environment for Access Control Applications (SREAC)." (a Discovery Park award — Cyber Center)

Bertino, Elisa and Martino, Lorenzo D; Center for Education and Research in Information Assurance and Security (CERIAS), computer science, from University of Texas at Dallas, \$100,000, "Secure Semantic Information Grid for NCES and Border Security Applications; Amendment 3."

Bertoline, Gary R; College of Technology - Administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$7,907, "2011 GS SRG - TECH."

Bhargava, Bharat and Zhang, Xiangyu; computer science, from Department of the Air Force, \$22,000, "Secure End-to-End Service Oriented Architecture; Modification 2."

Bingham, Clifton W; computer science, from Ricoh Co Ltd, \$89,585, "Secure Printing from the Cloud."

Borch, Richard F; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,272, "2011 GS SRG - MCPH."

Bowman, Keith J; materials engineering, from Winifred B. Bilsland Endowment, \$18,785, "Manuel Acosta."

Braile, Lawrence W; earth & atmospheric sciences, from Society of Exploration Geophysicists, \$20,000, "Support for SAGE (Summer of Applied Geophysical Experience) 2011."

Braun, James E; Chen, Qingyan; Horton, William T; Hu, Jianghai; Karava, Panagiota; Pekarek, Steven D; Saeedifard, Maryam and Tzempelikos, Athanasios; mechanical engineering, civil engineering, electrical & computer engineering, from Pennsylvania State University, \$604,000, "Energy Efficient Building Systems Regional Innovation Cluster Initiative." (a Discovery Park award — Energy Center)

Buckmaster, Dennis; agricultural & biological engineering, from Dairy Japan, \$4,200, "Buckmaster Multi-Sponsored Gift."

Buckmaster, Dennis; agricultural & biological engineering, from Dairy Japan, \$625, "Buckmaster Multi-Sponsored Gift."

Camberato, James J; agronomy, from Wolf Trax Inc, \$3,750, "Crop Response to Micronutrient Fertilizers."

Camberato, James J; Nielsen, Robert L and Joern, Brad C; agronomy, from Pioneer Hi-Bred International, Inc., \$10,000, "Pioneer Hi-Bred Crop Research Management Research Awards 2nd Year Funding."

Campbell, Wayne W; Dydak, Ulrike; Rosen, Arthur D and Talavage, Thomas M; foods & nutrition, health sciences, biological sciences, electrical & computer engineering, from American Egg Board, \$164,855, "Effect of Increased, Egg-Based Protein Intake on Muscle Composition, Metabolic Health and Systemic Inflammation in Obese, Older Adults."

Campbell, Wayne W; foods & nutrition, from Experimental and Applied Sciences, \$425, "EAS Ph.D Candidate Support."

Casteel, Shaun N; agronomy, from Monsanto Company, \$5,000, "Soybean Extension Research."

Casteel, Shaun N; agronomy, from Indiana Soybean Alliance, \$76,043, "Agronomic Evaluations of Nine Decades of Soybean Cultivars: Nitrogen Utilization."

Casteel, Shaun N; agronomy, from Monsanto Company, \$3,750, "Soybean Extension Research."

Chang, Fen-Lei F; medical education - Fort Wayne campus, from Indiana University, \$162,289, "FY 2010-2011 IUSM Fort Wayne Expansion Funding - State Support."

Chen, Qingyan; mechanical engineering, from Boeing Commercial Airplanes Group, \$120,000, “CFD-Based Risk Assessment and Mitigation of Airborne Disease Transmission in Cabins - Phase II: Prediction of Transient Particle Transport and Deposition in Commercial Airliner Cabins.”

Chmielewski, Jean A; chemistry, from National Science Foundation, \$153,000, “Cationic Amphiphilic Polyproline Helices for Cell Penetration - Amendment 1.”

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from Office of Naval Research, \$145,000, “Photo-Regulated DNA Nanomotors that Walk Along a Single-Walled Carbon Nanotube - Reminiscent of Kinesin Protein Motors that Move Along a Microtubule.” (a Discovery Park award — Bindley Bioscience Center)

Chun, Hyonho; statistics, from National Science Foundation, \$9,389, “Collaborative Research: Semiparametric Conditional Graphical Models with Applications to Gene Network Analysis.”

Clark, Jason V; electrical & computer engineering, from Thornberry Technologies, LLC, \$6,100, “Voluntary Support.”

Connors, Susan E; Couetil, Laurent L; Furdek, Jonathan M and Preston, Gregory; marketing, human resources & management - Calumet campus, veterinary clinical science, finance & economics - Calumet campus, agricultural statistics, from Multi-Sponsored Industrials, \$12,250, “Equine Survey Project.”

Connor, Robert J and Bowman, Mark D; civil engineering, from Indiana Department of Transportation, \$106,044, “Evaluation of Cracks on Sherman-Minton Bridge.”

Dehr, Karol A and Kim, Il-Hee; English & linguistic - Fort Wayne campus, educational studies - Fort Wayne campus, from National Writing Project Corporation, \$35,000, “Appleseed Writing Project 2011-2012.”

Del Caro, Adrian; foreign language & literature, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - FLL.”

Delgass, W N; chemical engineering, from U.S. Department of Energy, \$780,000, “Catalyst Design by Discovery Informatics; Modification 9.”

Deng, Xinyan; mechanical engineering, from National Science Foundation, \$121,395, “CAREER: Theory and Practices of Flapping Flight: from Biological to Robotic Insects.”

Dennis, Jennifer L and Lopez, Roberto G; horticulture & landscape architecture, from Michigan State University, \$4,000, “Sustainability on the Table and in the Yard: Identifying, Profiling, and Quantifying Markets for Sustainably-Grown Ornamental and Food-Producing Plants.”

Deshmukh, Abhijit V; industrial engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$7,907, “2011 GS SRG - IE.”

Doerge, Rebecca W; statistics, from Medicine Institute, Incorporated, \$8,963, “Cook Medicine Institute.”

Doerge, Rebecca W; statistics, from Orion Genomics LLC, \$15,000, “Orion Enterprises, Inc.”

Doerge, Rebecca W; statistics, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,543, “2011 2011 GS SRG - STAT.”

Donkin, Shawn S; animal sciences, from Zinpro Corporation, \$5,000, “Ruminant Research.”

Donkin, Shawn S; Buckmaster, Dennis and Nennich, Tamilee D; animal sciences, agricultural & biological engineering, from Indiana Corn Marketing Council, \$71,105, “Corn-Based Biofuel Co-Product Forage Alternatives.”

Dukes, Jeffrey S; forestry & natural resources, from National Science Foundation, \$100,950, “RCN: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate; Amendment 1.” (a Discovery Park award — Purdue Climate Change Research Center)

Ebert, David S; Collins, Timothy F; Maciejewski, Ross L and Elmqvist, Niklas E; electrical & computer engineering, discovery park administration, from U.S. Department of Homeland Security, \$750,000, “VACCINE SP 16: Visual Analytics for Security Applications (VASA).” (a Discovery Park award — Discovery Park Administration)

Ebert, David S; Collins, Timothy F; Delp, Edward J; Maciejewski, Ross L; Boutin, Mireille and Elmqvist, Niklas E; electrical & computer engineering, Discovery Park Administration, from U.S. Department of Homeland Security, \$805,000, “VACCINE: Visual Analytics for Command, Control, and Interoperability Environments.” (a Discovery Park award — Discovery Park Administration)

Egel, Daniel S; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$4,000, “Potassium Management.”

Egel, Daniel S; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$1,000, “Potassium Management.”

Elliott, Daniel S; electrical & computer engineering, from National Science Foundation, \$145,000, “Measurements of the Parity Non-Conservation Amplitude in Atomic Cesium for Improved Tests of the Standard Model; Amendment 1.”

Engel, Bernard A and Ahiablame, Laurent M; agricultural & biological engineering, from University of Illinois, \$6,000, “Modeling Methods to Evaluate Low Impact Development.”

Eugster, Patrick T; computer science, from U.S. Department of Interior, \$100,000, “A Methodology for Developing Complex Event-Based Software.”

Fahmy, Sonia A; computer science, from Hewlett Packard SBY PO Payment Request, \$25,000, “Hewlett Packard.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$100, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$45, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$100, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$30, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$50, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$20, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$50, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, “Breaking New Ground.”

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Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$30, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$130, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$20, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$20, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$50, “Breaking New Ground.”

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, "Breaking New Ground."

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$20, "Breaking New Ground."

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$250, "Breaking New Ground."

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$25, "Breaking New Ground."

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$50, "Breaking New Ground."

Finke, Linda M; health & human services - Fort Wayne campus, from Indiana Family Health Council, Inc., \$31,260, "Lafayette Street Family Health Clinic - Title X."

Fleet, James C; foods & nutrition, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$28,939, "Intestinal Calcium Absorption: Molecular Mechanism."

Foster, Ricky E; Beckerman, Janna L and Obermeyer, John L; entomology, botany & plant pathology, from American Farmland Trust, \$63,325, "Comprehensive Educational Programming to Promote Transition in Indiana Growers Pesticide Choices."

French, Doran C; child development & family studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, "2011 GS SRG - CDFS."

Fuchs, Philip L; chemistry, from John Wiley & Sons Limited England, \$3,000, "E-Encyclopedia of Reagents for Organic Synthesis."

Garfinkel, Arthur F; physics, from Argonne National Laboratory, \$10,153, "Graduate Student Services: Laura Boon."

Garimella, Suresh V; mechanical engineering, from Multi-Sponsored Industrials, \$30,000, "CTRC Membership."

Garimella, Suresh V; mechanical engineering, from Multi-Sponsored Industrials, \$7,500, "CTRC Membership."

Geahlen, Robert L; College of Pharmacy - Administration, from PHS-NIH National Cancer Institute, \$17,595, "Syk and Associated Proteins in Breast Cancer."

Geahlen, Robert L; College of Pharmacy - Administration, from PHS-NIH National Cancer Institute, \$16,952, "Tyrosine Protein Kinases and Lymphocyte Activation."

Geahlen, Robert L; College of Pharmacy - Administration, from PHS-NIH National Cancer Institute, \$2,234, "Tyrosine Protein Kinases and Lymphocyte Activation."

Gelvin, Stanton B; biological sciences, from Biotechnology Research & Development Corp., \$75,656, "Plant Global Regulator of Agrobacte-

rium Transformation (Manipulation of a Soybean Myb Transcription Factor Gene to Increase Transformation)."

Gerber, Corey K; agronomy, from Multi-Sponsored Industrials, \$5,000, "Diagnostic Training Center - Indiana Certified Crop Advisors."

Gerber, Corey K; agronomy, from Multi-Sponsored Industrials, \$8,000, "Diagnostic Training Center -Becks Hybrids."

Gerber, Corey K; agronomy, from Unity Seeds, \$3,000, "Unity Seeds Observation Corn Plot."

Gerber, Corey K; agronomy, from Multi-Sponsored Industrials, \$4,000, "Diagnostic Training Center - Indiana Association of Professional Crop Consultants."

Ghiselli, Richard F; hospitality & tourism, from Daydots, \$4,500, "HTM Advisory Council."

Ghiselli, Richard F; hospitality & tourism, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,272, "2011 GS SRG - HLS."

Gilbert, Hersch J; earth & atmospheric sciences, from National Science Foundation, \$159,180, "Collaborative Research: Structure and Dynamics of the North American Craton - an Earthscope Swath from the Ozarks to the Grenville."

Giordano, Nicholas J; physics, from Purdue Research Foundation (PRF) Summer Research Grants, \$23,722, "2011 GS SRG - PHYS."

Goffman, Lisa A; Zelaznik, Howard N and Smith, Anne; speech, language and hearing sciences, consumer & family sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$18,916, "Language-Motor Relations in Childrens Speech Production."

Goldsbrough, Peter B; botany & plant pathology, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, "2011 GS SRG - BTNY."

Groll, Eckhard A and Horton, William T; mechanical engineering, civil engineering, from Trane Residential Systems, \$35,000, "Voluntary Support - Trane Residential Systems."

Gruenbaum, Ellen R; anthropology, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, "2011 GS SRG - ANTR."

Guptill-Yoran, Carolyn F and Childress, Michael O; veterinary clinical science, from Morris Animal Foundation, \$4,000, "Assessment of Three Methods of Urine Collection for Diagnosis Lower Urinary Tract Infection in Female Dogs with Transitional Cell Carcinoma of the Urinary Bladder and Urethra."

Haase, Jennifer S; earth & atmospheric sciences, from National Science Foundation, \$3,800, "Collaborative Research: Investigating the Characteristics of Lower Tropospheric Airborne GPS Radio Occultation Observations and Their Impact in Hurricane Studies."

Hall, Mark C; biochemistry, from National Science Foundation, \$175,000, "Regulation of the Anaphase-Promoting Complex by Pseudo-substrate Inhibition; Amendment 3."

Harper, William A; health & kinesiology, from Purdue Research Foundation (PRF) Summer Research Grants, \$13,179, "2011 GS SRG - HKLS."

Hassanein, Ahmed and Sizyuk, Valeryi; nuclear engineering, from U.S. Department of Energy, \$960,000, "Integrated Prediction and Benchmarking of Material Damage and Lifetime Analysis During Major Plasma Instabilities in Fusion Devices."

Hassanein, Ahmed; nuclear engineering, from National Science Foundation, \$8,000, "Conference Grant Proposal for 38th ICOPS and 24th SOFE."

Heinz, Michael G; speech, language and hearing sciences, from National Institutes of Health, \$420, "NIH - Ruth Kirschstein Fellowship - Jon Boley."

Hertel, Thomas W; agricultural economics, from Johann Heinrich Von Thunen Institute (vTI), \$19,918, "Global Trade Analysis Project (GTAP) Consortium."

Hogenesch, Harm; School of Veterinary Medicine - Administration, from Vaxform, LLC, \$9,422, "Testing for Streptococcus Pyogenes Vaccine Candidates."

Hook, Tomas O; forestry & natural resources, from Illinois Cooperative Extension Service, \$45,591, "Agreement Between Purdue University and University of Illinois Cooperative Extension."

Hook, Tomas O; forestry & natural resources, from National Oceanographic & Atmospheric Administration, \$99,207, "Climate-Induced Changes to Fisheries Habitat in Lake Michigan: An Integrated Assessment; Amendment 1."

Howe, Katherine M; botany & plant pathology, from Multi-Sponsored Industrials, \$100, "Katherine Howe Gift Fund."

Huber, Jessica E; speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$24,972, "Use of External Cueing to Treat Hypophonia in Parkinsons Disease."

Hurt, R D; history, from Purdue Research Foundation (PRF) Summer Research Grants, \$21,086, "2011 GS SRG - HIST."

Hwang, Inseok; aeronautical & astronautical engineering, from National Science Foundation, \$80,000, "CAREER: Real-Time Hybrid Estimation and Control for Networked Embedded Hybrid Systems; Amendment 3."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$51,110, "Task Order 7: TRACE Interfacial Area Transport Model Development; Modification 5."

Ishii, Mamoru; nuclear engineering, from Bechtel Bettis, Inc., \$111,076, "Three Dimensional Interfacial Area Transport Equation (IATE) Development; PO 3017044; Amendment 6."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$92,000, “Task 9: Void Fraction in Large Diameter Pipes; Modification 2.”

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$37,501, “Task Order 8: TRACE Code Models and Correlations Development; Modification 5.”

Jacobs, Douglass F and Zhang, Hao; forestry & natural resources, statistics, from National Institute of Food & Agriculture, \$681,743, “Forecasting Carbon Storage of Eastern Forests: Can American Chestnut Restoration Improve Storage Potential in an Uncertain Future?”

Jaeger, Laurie A; basic medical science, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - BMS.”

Jafvert, Chad T and Filley, Timothy R; civil engineering, earth & atmospheric sciences, from Environmental Protection Agency, \$600,000, “Photochemical and Fungal Transformations of Carbon Nanotubes in the Environment.”

Jiang, Keyuan; computer information technology - Calumet campus, from Advancement Technology Support Services LLC, \$955, “Roll Shop Program.”

Jiao, Dan; electrical & computer engineering, from Office of Naval Research, \$31,500, “Rigorous and Fast Physics-Based Co-Simulation of Device-Structure-Material Interactions in Complex, Nonlinear, and Time-Variant Mixed-Signal Circuits; Modification 6.”

Jiao, Dan; electrical & computer engineering, from Semiconductor Research Corporation, \$89,800, “Direct Matrix Solutions of Linear Complexity for Rapid Modeling and Design of High Bandwidth Package Interconnects.”

Johnson, William G; botany & plant pathology, from Dow Agro Sciences, \$20,300, “DHT Efficacy / 2 4-D or Dicamba +/- Glyphosate / Post / Corn (Project No. 3) ... AAD-1 Corn PRE V2 V5 Weed Control Programs COI Trials (Project No. 4).”

Johnson, William G; botany & plant pathology, from Du Pont Crop Protection, \$21,500, “Weed Research.”

Johnson, William G; botany & plant pathology, from Du Pont Crop Protection, \$8,000, “Weed Research.”

Johnson, William G; botany & plant pathology, from Du Pont Crop Protection, \$12,900, “Weed Research.”

Johnson, William G; botany & plant pathology, from Du Pont Crop Protection, \$8,350, “Weed Research.”

Johnston, Cliff T; agronomy, from Cook Biotech, Inc., \$1,200, “Differential Scanning Calorimetry Analysis of Biomedical Materials.”

Johnston, Cliff T; agronomy, from Michigan State University, \$60,678, “Environmental; Microbial; and Mammalian Biomolecular Responses to AHR Ligands.”

Jones, Timothy M and Bortoletto, Daniela; physics, from University of Notre Dame, \$3,500, “QuarkNet at Purdue University.”

Jung, Byunghoo; electrical & computer engineering, from OpCoast LLC, \$20,000, “Voluntary Support.”

Kalwani, Manohar U; management, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 2011 GS SRG - MGMT.”

Keener, Kevin M; food science, from J.R. Simplot Company, \$10,000, “Phase 1-Preliminary Experiments ... In-Package Ionization Treatment to Reduce *Listeria Monocytogenes* on Raw Chicken, Raw Fish, Broccoli, Pizza, and Frozen Vegetables.”

Key, Nicole L; mechanical engineering, from Siemens Power Generation Inc, \$141,245, “Design of a Three-Stage Compressor Research Facility.”

Kim, Chang H; comparative pathobiology, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$26,432, “Therapeutic Delivery of FoxP3+ T Cells to the Intestine.”

Kirkpatrick, Jane M; nursing, from Indiana State Department of Health, \$37,378, “Family Health Clinic of Carroll County: Increasing Access for Rural Populations Supplement.”

Klimeck, Gerhard; electrical & computer engineering, from Hamamatsu Photonics, \$120,000, “Design and Modeling of Terahertz Quantum Cascade Lasers.” (a Discovery Park award — Network for Computational Nanotechnology)

Konieczny, Stephen F; biological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$28,113, “Pancreas Transcription Factors and Disease Model Systems.”

Kranz, Sibylle; foods & nutrition, from Kellogg Company, \$50,000, “The Measurement of Childrens Well Being and Quality of Life.”

Krupke, Christian H and Wise, Kiersten A; entomology, botany & plant pathology, from Indiana Corn Marketing Council, \$29,026, “Developing Management Plans for Two Key Pests of Indiana No-Till Corn Systems: the Western Bean Cutworm and Ear-Rot Fungi.”

Krupke, Christian H and Hunt, Greg J; entomology, from Pollinator Partnership, \$9,000, “Quantifying Routes of Exposure for Honeybees to Neo-Nicotinoid Seed Treatments of Corn.”

Krupke, Christian H and Casteel, Shaun N; entomology, agronomy, from Indiana Soybean Alliance, \$15,000, “Evaluating Soybean Aphid Seed Treatments, Resistance Genetics and Effects on Biological Control.”

Krutz, Gary W; agricultural & biological engineering, from Parker Hannifin Corp., \$7,648, “O-Ring Seal Leakage Sensor.”

Kuhn, Richard J; biological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$15,815, “2011 GS SRG - BIOS.”

Lasker, Gregory C; building construction & management technology, from Multi-Sponsored Industrials, \$9,935, “Healthcare Student Support - Lasker.”

Latin, Richard X; botany & plant pathology, from Syngenta Crop Protection Inc., \$14,950, “Turfgrass Disease Research.”

Lechtenberg, Victor L; Caruthers, James M and Steuterman, Ronald J; Office of Engagement, chemical engineering, Institute for Defense Initiatives, from Indiana Economic Development Corporation, \$150,000, “Education and Research Programming in Support of Economic Development at NSWC Crane.”

Lempert, Laszlo; mathematics, from National Science Foundation, \$97,966, “Complex Analysis and Geometry in Infinite Dimensions; Amendment 4.”

Leung, Yuk Fai; biological sciences, from Indiana Academy of Science, \$3,000, “The Role of Phenylthiourea in Zebrafish Eye Development.”

Lin, Xiaojun; electrical & computer engineering, from National Science Foundation, \$79,267, “CAREER: A Theoretical Foundation for Supporting Delay-Sensitive Applications on Wireless Networks; Amendment 4.”

Liu, Chuanhai and Xie, Jun; statistics, from National Science Foundation, \$75,550, “Large-Scale Multinomial Inference and its Applications in Genome-Wide Association Studies; Amendment 1.”

Liu, Julie C; chemical engineering, from 3M General Offices, \$15,000, “Engineering Protein Polymers with Tunable Material-Based Cues for Directing Stem Cell Differentiation.”

Liu, Shuang; health sciences, from PHS-NIH National Cancer Institute, \$18,449, “99m Tc-Labeled Cyclic RGDfK Tetramers for Breast Cancer Imaging.”

Lloyd, Lyle L; educational studies, from John M or Helen H Arvidson (Indiv Donor), \$1,792, “AAC Program Support.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$4,000, “Multi Sponsored Gift Account.”

Lucas, Jeffrey R; biological sciences, from Indiana Academy of Science, \$1,536, “Behavioral Variation Between Individuals: What Roles Do Sensory Systems Play.”

Lucas, Jeffrey R and Gall, Megan; biological sciences, from National Science Foundation, \$12,450, “Dissertation Research: Physiological Mechanisms Regulating Sex-Related and Seasonal Variation in the Peripheral Auditory System: Implications for Communication.”

Lucht, Robert P; mechanical engineering, from GE Aviation, \$250,000, “High Pressure TAPS Flame Visualization.”

Lutes, Kyle D; computer & information technology, from Microsoft Corporation, \$500, “Microsoft Hawaii Competition.”

Lynall, Matthew D; management, from Purdue University, \$2,777, “Krannerts Experiential Learning Initiative (ELI) Fall 2010.”

Ma, Jianxin; agronomy, from Indiana Soybean Alliance, \$85,243, "Development of New Genetic Resources and Tools for Soybean Improvement."

Ma, Jianxin; Abney, T S and Hughes, Teresa J; agronomy, botany & plant pathology, from Indiana Soybean Alliance, \$82,466, "Genetic Dissection of Uncharacterized Rps Genes and Marker Development."

Ma, Jianxin; agronomy, from United Soybean Board, \$79,509, "Recovering Genes Masked by Junk DNA in the Soybean Genome."

Mao, Chengde; chemistry, from Office of Naval Research, \$149,999, "Assembly of Complex DNA Nanostructures through Structural Transformation."

Mapa, Lakshman B; engineering technology - Calumet campus, from ARPAC, \$6,158, "Testing of MCE-3400 and RTA."

Marshall, Jordan M; biology - Fort Wayne campus, from Indiana Academy of Science, \$1,187, "Ash Regeneration in Hardwood and Pine Forest Stands."

Maynard, Elizabeth T; horticulture & landscape architecture, from Mid-America Food Processors Association, \$4,000, "Mid-AM Food Proc."

Maynard, Elizabeth T; horticulture & landscape architecture, from Mid-America Food Processors Association, \$7,000, "Mid-AM Food Proc."

McComb, Sara A; nursing, from Office of Naval Research, \$110,276, "Examining the Mental Model Convergence Process and its Consequences."

McCullough, Bobby G; civil engineering, from National Local Technical Assistance Program Association, \$935, "National Local Technical Assistance Program Association (NLTAPA) Website."

McCullough, Bobby G; civil engineering, from Indiana Department of Transportation, \$9,377, "Level of Service for Indiana Department of Transportation (INDOT) Maintenance Operations, SPR-3534."

McKee, Renee K; youth development & agricultural education, from National 4-H Council, \$82,000, "Purdue University Response to 4-H National Mentoring Program RFP."

McKinley, Steven K; youth development & agricultural education, from Kansas State University, \$40,101, "OMK Take Flight 48 - Indiana 2011."

McNamara, Kevin T and Lowenberg-Deboer, James M; agricultural economics, International Programs in Agriculture, from Agency for International Development, \$174,446, "Advancing Afghan Agriculture Alliance."

McNamara, Kevin T and Murdock, Larry L; agricultural economics, entomology, from Indiana National Guard, \$2,521, "National Guard Training: Post Harvest Storage, Handling, and Product Quality."

McNamara, Kevin T and Lowenberg-Deboer, James M; agricultural economics, International Programs in Agriculture, from Agency for International Development, \$5,000,000, "Afghan Agriculture University Faculty Strengthening."

Meilan, Richard; forestry & natural resources, from Consortium Plant Biotechnology Research Inc., \$107,760, "Improving Water Relations of Populus for Use as a Bio-Energy Crop."

Miller, Joann L; comparative literature, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,272, "2011 GS SRG - CMPL."

Miller, Joann L; American Studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$7,907, "2011 GS SRG - AMST."

Miller, Joann L; linguistics, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, "2011 GS SRG - LING."

Molnar, Denes; physics, from U.S. Department of Energy, \$22,000, "Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions; Modification 1."

Mongia, Hukam C; Merkle, Charles L and Sullivan, John P; mechanical engineering, aeronautical & astronautical engineering, from U.S. Department of Transportation, \$149,900, "Approaches to Reducing Aircraft Noise and Emissions."

Morgan, Mark T; food science, from Taylor Farms California Inc, \$1,000, "Food Science Research."

Mullins, James L; library administration, from Internet-Journals, Inc. (dba Berkeley Electronic Press, \$5,000, "Library Publishing Services-Berkeley."

Murphy, Angus S; horticulture & landscape architecture, from U.S. Department of Energy, \$165,000, "Analysis of Mdr/Pgp Auxin Transport Proteins and Their Contribution to Monocot Biomass, Structural Stability, and Productivity; Modification 6."

Narsimhan, Ganesan and San Martin-Gonzalez, Maria F; agricultural & biological engineering, food science, from Indiana Soybean Alliance, \$41,979, "Soy Protein as an Anti-Oxidative Encapsulant for Delivery of Fish Oil in Food Products."

Nash, Christiane L; pharmacy practice, from Fred Run Ltd, \$1,760, "Pharmacy Diabetes Education Program."

Naughton, James F; Heo, Jin Young and Constable, Peter D; veterinary clinical science, from American College of Veterinary Radiology, \$7,500, "Dynamic Secretin-Enhanced Magnetic Resonance Cholangiopancreatography in Normal Dogs."

Neville, Jennifer L; computer science, from SAIC-Frederick, Inc, \$44,000, "SAIC - Sub PO 10068715- Grant 105185; Modification 2."

Nielsen, Robert L; Camberato, James J; Faghihi, Jamal and Wise, Kiersten A; agronomy, entomology, botany & plant pathology, from Indiana Corn Marketing Council, \$55,000, "Profitability and Improving Sustainability of Corn Production Practices for Indiana."

Nielsen, Robert L; agronomy, from Agrelant Genetics, \$3,750, "Corn & Soybean Production."

Niyogi, Devdutta S; agronomy, from Debbie P & Louise A Cascardo, \$3,000, "State Climatology."

Nyenhuis, John A; electrical & computer engineering, from Zimmer Spine, Inc., \$20,000, "Evaluation of Spinal Implants."

Nyenhuis, John A; electrical & computer engineering, from Neuropace Inc, \$20,000, "Measurement and Modeling of Interactions of the Electromagnetic Fields in MRI with Implant NP1."

Nyenhuis, John A; electrical & computer engineering, from Zimmer, \$16,000, "MRI Interactions with Implant SEG1."

Nyenhuis, John A; electrical & computer engineering, from Zimmer, \$20,000, "MRI Interactions with Implant SH1."

O'Connell, Kathleen L; Vice Chancellor of Academic Affairs - Fort Wayne campus, from IU School of Medicine, \$255,000, "Northeast Indiana Area Health Education Center 2010-2011."

O'Connell, Kathleen L; Vice Chancellor of Academic Affairs - Fort Wayne campus, from Indiana University Purdue University at Indianapolis, \$22,994, "2011 Indiana Area Health Education Centers Program Operating Support."

Ogas, Joseph P; biochemistry, from National Science Foundation, \$12,000, "REU Supplement-Dissecting the Relationship Between a CHD3 Chromatin Remodeler and the Repressive Epigenetic Mark H3K27me3 in Arabidopsis."

Okos, Martin R; Campanella, Osvaldo H; Lister, James D; Pinal, Rodolfo and Wassgren, Carl R; agricultural & biological engineering, chemical engineering, industrial & physical pharmacy, mechanical engineering, from Indiana Soybean Alliance, \$75,632, "Use of Soy for the Development of Nutraceutical and Pharmaceutical Compacts."

Okos, Martin R; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$19,346, "Alfred Lynam."

Oliver, Haley F; food science, from Cornell University, \$40,791, "A National Food Safety Education Program: Building a Multidisciplinary Food Safety Training Pipeline from K-12 to Graduate School."

Oliver, Haley F; food science, from American Meat Institute Foundation, \$25,000, "Development and Evaluation of Control Strategies for Listeria Monocytogenes in Retail Deli Environments."

Oliver, Haley F; food science, from Food Marketing Institute, \$25,000, "Development and Evaluation of Control Strategies for Listeria Monocytogenes in Retail Deli Environments."

Owens, Phillip R; agronomy, from Natural Resources Conservation Services, \$25,000, "University Assistance for the Rapid Carbon Assessment."

Park, Kinam and Cheng, Ji-Xin; biomedical engineering, from PHS-Centers for Disease Control & Prevention, \$21,545, "Adaptable Polymer Micelles for Tumor Targeting."

Pastakia, Sonak D; pharmacy practice, from Indiana University Purdue University at Indianapolis, \$13,655, "USAID-AMPATH Partnership: Academic Model for the Prevention and Treatment of HIV/AIDS."

Patton, Aaron J; agronomy, from Midwest Regional Turf Foundation, \$3,183, "Turfgrass Research."

Patton, Aaron J; agronomy, from Dow Agro Sciences, \$100, "Multi-Sponsored."

Peroulis, Dimitrios; electrical & computer engineering, from Intelligent Automation Inc, \$25,000, "System-Level Impact of Vibration-Induced Noise on Reconfigurable High-Q Radio Frequency (RF) Microelectromechanical System (MEMS) Filters." (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; Adams, Douglas E; Jung, Byunghoo and Sadeghi, Farshid; electrical & computer engineering, mechanical engineering, from Office of Naval Research, \$105,000, "Ultra Low-Size Self-Powered Wireless Sensors for Condition Monitoring of Cracks in Aircraft Structural Components; Modification 3." (a Discovery Park award — Birck Nanotechnology Center)

Peterson, Nancy J; English, from Purdue Research Foundation (PRF) Summer Research Grants, \$50,079, "2011 GS SRG - ENGL."

Pinal, Rodolfo; industrial & physical pharmacy, from Multi-Sponsored Industrials, \$35,000, "Center for Pharmaceutical Processing Research Consortium."

Pinal, Rodolfo; industrial & physical pharmacy, from Multi-Sponsored Industrials, \$35,000, "Center for Pharmaceutical Processing Research Consortium."

Porterfield, D. M; agricultural & biological engineering, from Office of Naval Research, \$53,405, "A Novel Multi-Site Patchclamp Biochip for Electrophysiological Recordings on Retinal Tissue Cells; Modification 5." (a Discovery Park award — Bindley Bioscience Center)

Pothen, Alex; computer science, from U.S. Department of Energy, \$411,997, "Combinatorial Scientific Computing and Petascale Simulations Institute; Modification 3."

Pourpoint, Timothee L and Son, Steven F; aeronautical & astronautical engineering, mechanical engineering, from Giner Electrochemical System LLC, \$10,000, "Subcontract Agreement N00014-10-M-0295; Modification 2 - Grant 104920." (a Discovery Park award — Energy Center)

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Science Applications International Corp, \$29,231, "Analysis of Energetic Composition Samples."

Powley, Terry L and Phillips, Robert J; psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$28,873, "Gastrointestinal Tract Innervation: Patterns of Aging."

Powley, Terry L; psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$31,845, "Autonomic Control of Body Weight and Feeding."

Prabhakar, Sunil K; computer science, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,543, "2011 GS SRG - CS."

Prabhakar, Sunil K; computer science, from Winifred B. Bilsland Endowment, \$11,285, "Meghana Chitale."

Purcell, Lindsey A; forestry & natural resources, from Duke Energy Foundation, \$450, "Voluntary Support - Purcell."

Qu, Ming and Zhao, Fu; civil engineering, mechanical engineering, from National Science Foundation, \$99,271, "Enabling Economic and Environmental Sustainability of Solar Thermal Systems via Temporally and Spatially Explicit Life; Amendment 1."

Rajwa, Bartlomiej P; Bindley Bioscience center, from IN University Purdue University at Indianapolis, \$85,552, "A Machine Learning Approach to Label-Free Detection of Bacterial Pathogens Using Laser Light Scattering; Amendment 1." (a Discovery Park award — Bindley Bioscience Center)

Ramkrishna, Doraiswami; chemical engineering, from Pacific Northwest National Laboratory, \$40,000, "Dynamic Modeling of Metabolism of *Shewanella Oneidensis*: Anaerobic, Oxygen-Limited and Fully Aerobic Growth and Their Transition."

Raskin, Rose E; comparative pathobiology, from Phoenix Central Laboratory, \$100, "Immunohistochemical Expression of CD3 in Veterinary Hemolymphatic Cytologic Specimens."

Ratliff, Timothy L; Cancer Research Center, from Indiana State Department of Health, \$15,000, "Barbershop Initiative."

Ratliff, Timothy L; Cancer Research Center, from Indiana State Department of Health, \$5,000, "Barbershop Initiative."

Ratliff, Timothy L; Cancer Research Center, from Walther Cancer Institute Foundation Inc, \$289,775, "Molecular Discovery and Evaluation Shared Resource."

Remis, Melissa J; anthropology, from Primate Conservation Inc., \$2,450, "Changing Technologies, Changing Ecologies: Differentiating the Impacts of Increased Hunting Versus Logging on Primate Behavior and Community Structure in the Dzanga Sangha Dense Forest Reserve, Car."

Reuhs, Bradley L; food science, from Dole, \$85,000, "Multi-Sponsored Gift Funds."

Ribeiro, Fabio H; chemical engineering, from U.S. Department of Energy, \$25,000, "Kokes Awards for the 22nd North American Catalysis Society Meeting."

Richert, Brian T; animal sciences, from Iowa State University, \$5,000, "Education and Information Initiative National Swine Nutrition Guide Development."

Rick, Carly M; recreational sports, from Winifred B. Bilsland Endowment, \$19,346, "Jaroch, David 2011-12 Bilsland Dissertation."

Ridgway, Kenneth D; earth & atmospheric sciences, from National Science Foundation, \$77,573, "Collaborative Project: Track 2, Metals Minority Education through Traveling and Learning in the Sciences; Amendment 1."

Rivers, Robert; education - Calumet campus, from Office of Naval Research, \$100,000, "Exploration Earth: Introduction of Project Mission Ocean to Science Centers in Cities Across the United States."

Robinson, Mary J; field extension educators, from Crawford County Council for a Drug-Free Community, \$850, "Project LEAD Crawford County."

Rockman, Bert; political science, from Purdue Research Foundation (PRF) Summer Research Grants, \$7,907, "2011 GS SRG - POL."

Roychoudhury, Anita; Capobianco, Brenda M; Shepardson, Daniel P; Hirsch, Andrew S and Niyogi, Devdutta S; curriculum & instruction, earth & atmospheric sciences, physics, agronomy, from National Science Foundation, \$398,816, "Making Sense of Global Warming: Model of Student Learning via Collaborative Research - Amendment 4." (a Discovery Park award — Discovery Learning Center)

Ruan, Xiulin and Fisher, Timothy; mechanical engineering, from Air Force Office of Scientific Research, \$249,787, "Predictive Simulations of Thermal Transport in CNT-Metal Networks and Photonically Enhanced Flow Boiling from Nanostructured Surfaces." (a Discovery Park award — Birck Nanotechnology Center)

Rundell, Ann E; Harbin, Sherry L; Irazoqui, Pedro; Panitch, Alyssa and Park, Kinam; biomedical engineering, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$43,200, "A Multidisciplinary and Needs-Driven Approach to Translational Team-Based Biomedical Engineering Design."

Sa Barreto, Antonio C; mathematics, from National Science Foundation, \$104,770, "Scattering Theory on Manifolds; Amendment 2."

Sadeghi, Farshid and Frankel, Steven H; mechanical engineering, from Caterpillar Inc., \$62,141, "Computational Fluid Dynamics (CFD) Modeling of Journal Bearing Cavitation."

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, \$75,000, "Tribology Lab Research."

Salt, David E; horticulture & landscape architecture, from Dartmouth College, \$41,738, “Arsenic Uptake, Transport and Accumulation in Plants: Using Functional Ionomics and Synchrotron X-Ray Microanalysis to Develop Arsenic-Free Grain.” (a Discovery Park award — Bindley Bioscience Center)

Samarapungavan, Ala; educational studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,272, “2011 GS SRG - EDST.”

Sands, Timothy D; electrical & computer engineering, from University of California - Santa Cruz, \$100,000, “Nanostructured Metal/Semiconductor Materials for Thermoelectric Generators.” (a Discovery Park award — Birk Nanotechnology Center)

Sanmiguel, Phillip J; horticulture & landscape architecture, from University of California-Riverside, \$34,634, “Genome-Enabled Plant Research (GEPR): Maize Transposable Elements: Discovery, Description and Functional Characterization.”

Schneider, Steven P; aeronautical & astronautical engineering, from Sandia National Laboratories, \$30,000, “Measurements of Turbulent Spots on the Wall of the Mach-6 Tunnel.”

Shahidi, Freydoon; mathematics, from National Science Foundation, \$82,384, “Problems in the Theory of Automorphic Forms and L-Functions; Amendment 4.”

Shalae, Vladimir M and Kildishev, Alexander V; electrical & computer engineering, from Samsung Electronics Co., Ltd, \$50,000, “Active Metamaterials with Hyperbolic Dispersion.” (a Discovery Park award — Birk Nanotechnology Center)

Shepson, Paul B; chemistry, from Purdue Research Foundation (PRF) Summer Research Grants, \$57,987, “2011 GS SRG - CHEM.”

Shepson, Paul B; chemistry, from Jet Propulsion Laboratory, \$87,800, “Implications of Arctic Sea Ice Reduction on Tropospheric Bromine, Ozone, and Mercury Chemical Process, Transport, and Distribution; Amendment 1.”

Shih, Tom I; aeronautical & astronautical engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$7,907, “2011 GS SRG - AAEN.”

Shively, Gerald E; agricultural economics, from International Association of Agricultural Economist, \$15,000, “Co-Editorship in Chief for the Journal of Agricultural Economics.”

Si, Luo; computer science, from National Science Foundation, \$88,335, “CAREER: an Integrated and Utility-Centric Framework for Federated Text Search; Amendment 4.”

Sloan, Mary Anne; technology asst program, from Indiana Department of Homeland Security, \$93,884, “IDHS EMS State-Wide; Amendment 1.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$750, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$2,050, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$500, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Alcoa Inc, \$17,500, “Food Science Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Alcoa Inc, \$7,650, “Food Science Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$4,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$500, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Alcoa Inc, \$3,000, “Food Science Research.”

Snyder, Paul W and Fleet, James C; comparative pathobiology, foods & nutrition, from Abbott Laboratories, \$75,000, “Pathology Fellowship.”

Son, Steven F; mechanical engineering, from NextGen Aeronautics, Inc, \$138,000, “Advanced High Energy Density Propellants, Phase II.”

Son, Steven F; Groven, Lori J and Strachan, Alejandro H; mechanical engineering, materials engineering, from Office of Naval Research, \$240,000, “Chemical Decomposition in High Energy Density Materials Induced by Coupled Acoustic and Electromagnetic Energy Insult.”

Song, Xiaohui C; Rosen Center for Advanced Computing, from University of Chicago, \$286,892, “Supplement to TeraGrid Extension: Bridging to XD.”

Sorge, Brandon; Office of Engagement, from Indiana Department of Education, \$375,000, “Indiana Science Initiative Professional Development 2011-2012.”

Spafford, Eugene H; computer science, from John Wiley & Sons Limited England, \$60,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

Springer, John A; computer & information technology, from Indiana University Purdue University at Indianapolis, \$33,043, “Virtual Bio Bank Web Application Project.”

Staiger, Christopher J; biological sciences, from National Science Foundation, \$369,529, “Collaborative Proposal--Arabidopsis 2010: Dissecting Cortical Actin Function During Arabidopsis-Pseudomonas Interactions - Amendment 1.” (a Discovery Park award — Bindley Bioscience Center)

Steiner, Tamara A; field extension educators, from Utilities District of Western Indiana (UDWI) Rutherford Electric Membership Corporation (REMC) Community Fund Inc, \$1,016, “Mini 4-H Workshops.”

Steup, Matthias P; philosophy, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - PHND.”

Steup, Matthias P; philosophy, from Purdue Research Foundation (PRF) Summer Research Grants, \$13,179, “2011 GS SRG - PHIL.”

Story, Jon A; graduate school administration, from IU School of Medicine, \$3,949, “T-Awards. Indiana Clinical and Translational Sciences Institute (CTSI) Assistantships Gary Leung & Juan Cardenas; Amendment 1.”

Straw, Mark L; animal sciences, from Agricultural Marketing Service, \$150,000, “Country of Origin Labeling (COOL) Retail Surveillance Activities.”

Sun, Chin-Teh; aeronautical & astronautical engineering, from Office of Naval Research, \$60,000, “Novel Sandwich Structures with Resonators Embedded in the Core.”

Sun, Chin-Teh; aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$150,000, “Development and Application of Acoustic Metamaterials with Locally Resonant Microstructures; Modification 1.”

Swihart, Robert K; forestry & natural resources, from Indiana Arborists Association, Inc., \$2,000, “Indiana Arborists Association, Inc.”

Sypher, Howard E; communication, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,543, “2011 GS SRG - COMU.”

Szpankowski, Wojciech; computer science, from National Security Agency, \$44,828, “Asymptotic Solutions to Recurrences and Functional Equations Arising in Computer Science.”

Topp, Elizabeth M; industrial & physical pharmacy, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - INPP.”

Troy, Cary D; civil engineering, from National Science Foundation, \$3,375, “REU Supplement: Dispersion and Mixing Caused by Near-Inertial Internal Waves in Lake Michigan.”

Turco, Ronald F; agronomy, from Alcoa Inc, \$120,000, “Bauxite Residue in Soil.”

Ukkusuri, Satish V; civil engineering, from National Science Foundation, \$12,500, “REU Supplement -- NetSE: Small: Collaborative Research: Integrating Real Time Traffic Signal Control with Networking Control Strategies.”

Ulrich, Bernd; mathematics, from National Science Foundation, \$107,103, “Multiplicity Theory and Related Topics in Commutative Algebra; Amendment 2.”

Useem, Bert; sociology, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,543, “2011 GS SRG - SOC.”

Vanfossen, Phillip J; curriculum & instruction, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,543, “2011 GS SRG - EDCI.”

Vijaykumar, T N; electrical & computer engineering, from Nec Laboratories America, Inc, \$15,000, “Nec Voluntary Support.”

Vitek, Jan; computer science, from Microsoft Corporation, \$45,000, “Software Engineering.”

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, \$6,000, “Agricultural Cropping Systems.”

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, \$10,000, “Agricultural Cropping Systems.”

Vyn, Tony J; Grant, Richard H; Johnston, Cliff T and Smith, Douglas R; agronomy, from Indiana Corn Marketing Council, \$96,684, “Evaluation of Integrated Tillage, Nitrogen Fertilizer, and Nitrification Inhibitor Effect on Nitrous Oxide Emission Reduction, Nitrogen Use Efficiency, and Corn Yield in Indiana.”

Walker, William S; Eichinger, David C and Smith, Steven C; College of Science - Administration, biological sciences, earth & atmospheric sciences, from Metropolitan School District of Decatur Township, \$41,707, “Science through Inquiry: the Next Steps.”

Wang, Hong H and Ortega, David L; agricultural economics, from University of Illinois, \$6,000, “Assessing Consumer Preferences and Demand for Fish: a Market Analysis of the Midwest Aquaculture Industry.”

Wang, Nien-Hwa L; chemical engineering, from Argonne National Laboratory, \$40,000, “Development of Simulated Moving Bed Chromatography for the Separation of Rare-Earth Elements from Americium from Curium; Modification 4.”

Weaver, Connie M; foods & nutrition, from Kraft Foods Global, Inc, \$6,000, “Corporate Affiliates Fund.”

Weiner, Andrew M; electrical & computer engineering, from National Science Foundation, \$300,000, “High Repetition Rate Photonic Frequency Combs and Applications.”

Weiner, Andrew M; electrical & computer engineering, from Naval Postgraduate School, \$863,051, “Novel Ultrabroadband Photonic and Radio-Frequency Systems for Communications, Sensing and Countermeasures; Modification 3.”

Weller, Stephen C; horticulture & landscape architecture, from E.I. du Pont de Nemours and Company, \$15,000, “Research Gift.”

Wereley, Steven T; mechanical engineering, from MedTG, LLC, \$25,000, “MedTG Sensor - IV Prototype.” (a Discovery Park award — Birck Nanotechnology Center)

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$37,500, “Mechanism-Based Antifouling: Characterizing Bioadhesives and Inhibiting Adhesion; Modification 5.”

Wilker, Jonathan J; chemistry, from National Science Foundation, \$150,000, “Metal-Mediated Protein Cross Linking in the Formation of Marine Mussel Adhesive; Amendment 1.”

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$70,376, “Biomimetic Cross-Linking Polymers for Underwater Adhesives; Modification 3.”

Wise, Kiersten A; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$43,000, “Voluntary Support Account.”

Wise, Kiersten A; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$7,500, “Voluntary Support Account.”

Wise, Kiersten A; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$250, “Voluntary Support Account.”

Wise, Kiersten A; botany & plant pathology, from Monsanto Company, \$20,160, “Service Order No. 24.”

Wise, Kiersten A; botany & plant pathology, from Virginia Polytechnic Institute & State University, \$12,500, “Integrated Management of Oomycete Diseases of Soybean and Other Crop Plants.”

Wise, Kiersten A; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$3,500, “Voluntary Support Account.”

Wise, Kiersten A; Hughes, Teresa J; Casteel, Shaun N and Ma, Jianxin; botany & plant pathology, agronomy, from Indiana Soybean Alliance, \$45,000, “Evaluation of Phytophthora Sojae Populations in Indiana and Efficacy of Current Management Practices for Control of Phytophthora Root Rot for Soybeans.”

Wise, Kiersten A; Faghihi, Jamal; Ferris, Virginia R and Hughes, Teresa J; botany & plant pathology, entomology, from Indiana Soybean Alliance, \$45,000, “Understanding the Sudden Death Syndrome/Soybean Cyst Nematode Interaction in Indiana.”

Wise, Kiersten A; botany & plant pathology, from E.I. du Pont de Nemours and Company, \$1,500, “Voluntary Support Account.”

Witt, Jessica K; psychological sciences, from National Science Foundation, \$115,259, “Actions Effect on Perception; Amendment 1.”

Witt, Michael C; library administration, from Institute of Museum and Library Services, \$24,594, “Linked Databib.”

Wodicka, George R; biomedical engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - BMED.”

Xiu, Dongbin; mathematics, from Stanford University, \$40,000, “Large-Scale Uncertainty and Error Analysis for Time-Dependent Fluid/ Structure Interactions in Wind Turbine Applications.”

Yaninek, John S; entomology, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,636, “2011 GS SRG - ENTM.”

Yaninek, John S; entomology, from Embassy of the Arab Republic of Egypt, \$10,000, “Ecological and Biological Studies of the Dipterous Leafminers.”

Ye, Peide; electrical & computer engineering, from National Institute of Standards & Technology, \$75,000, “Advanced Optical Characterization of High-k/III-V Interfaces and its Relation with High-Performance III-V MOSFETs; Amendment 1.”

Ye, Peide; electrical & computer engineering, from National Science Foundation, \$6,000, “Collaborative Research: High-Performance III-V Nanowire FETs Enabled by Controlled MOCVD Growth and ALD High-k Passivation.” (a Discovery Park award — Birck Nanotechnology Center)

Yeo, Yoon; industrial & physical pharmacy, from Winifred B. Bilsland Endowment, \$19,346, “Gullotti, Emily 2011-12 Bilsland Dissertation.”

Youngblood, Jeffrey P and Trice, Rodney W; materials engineering, from Rolls-Royce Corporation, \$30,000, “Development of Sol-Gel Coating for Turbine Disk.”

Zhou, Chenn Q; Center for Innovation thru Visualization & Simulation, from BP Whiting Refinery, \$7,000, “A CFD Study of the Effects of Orifice Plate Reversal - Phase II.”

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