

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

July 2012

Abel, Steven R and **Jones, Kellie L**; pharmacy practice, from Clarian Health Partners, Inc., \$74,793, “Co Funded Position with IU Health.”

Adams, Douglas E; mechanical engineering, from Materials Sciences Corporation, \$75,000, “Composite Missile Case Structural Health Monitoring.”

Alexeenko, Alina; aeronautical & astronautical engineering, from Watershed Foods, LLC, \$10,000, “Watershed Foods LLC.”

Allain, Jean P; nuclear engineering, from U.S. Department of Energy, \$140,000, “Upgrade of the Materials Analysis Particle Probe (MAPP-U) to Decipher the Impact of Lithium-Based Surfaces on National Spherical Torus Experiment (NSTX)-U Plasma Behavior.”

Anderson, William E; **Lucht, Robert P**; **Merkle, Charles L** and **Mongia, Hukam C**; aeronautical & astronautical engineering, mechanical engineering, from National Aeronautics and Space Administration, \$300,000, “Integrated Physics-Based Modeling and Experiments For Improved Prediction of Combustion Dynamics in Low-Emission Systems; Supplement 2 for Grant 105385.”

Anderson, William E; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$66,000, “Measurement of Combustion Response to Transverse Modes at High Pressure-NSTRF Fellowship for Matt Wierman.”

Andrisani, Ourania M and **Xie, Jun**; basic medical science, statistics, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$314,605, “Mechanism(s) of Hepatocyte Transformation by the Hepatitis B Virus X Protein.”

Bajaj, Anil K; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$18,263, “Kalafut, Devin.”

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue Doctoral Program, \$18,194, “Rodriguez-Simmonds, Hector.”

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue Doctoral Program, \$18,194, “Ware, William.”

Balakrishnan, Venkataramanan; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$48, “Chakrabarty, Ankush.”

Baldwin, Michael E and **Trapp, Robert J**; earth & atmospheric sciences, from Indiana Department of Transportation, \$147,346, “Assessment and Recommendations for Using High-Resolution Weather Information to Improve Winter Maintenance Operations.”

Bane, Sally P; aeronautical & astronautical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Sandia Ethylene-N₂O Detonation Testing.”

Banks, Margaret K; **Pekarek, Steven D** and **Porterfield, D. M**; civil engineering, electrical & computer engineering, agricultural & biological engineering, from Environmental Protection Agency, \$371,163, “Development of Mobile Self-Powered Sensors for Potable Water Distribution; Modification 1 for Grant 105229.” (a Discovery Park award —Bindley Bioscience Center)

Bermel, Peter A; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Modeling Nonlinear Combustion Generation with Coupled Mode Theory.”

Bhunia, Arun K; food science, from Purdue University Special Initiative Program, \$7,720, “Elfaki, Mohammed.”

Biehl, Larry L; academic technologies, from Americaview Inc, \$23,500, “Stateview Program Development and Operations for the State of Indiana.”

Bigelow, Cale A; agronomy, from Agrotain International LLC, \$6,000, “Putting Greens Research.”

Bobet, Antonio and **Pyrak-Nolte, Laura J**; civil engineering, physics, from National Science Foundation, \$449,000, “Propagation of Frictional Fractures Under Complex Loading.”

Boiarsky, Carolyn R; English and philosophy — Calumet campus, from National Writing Project, \$20,000, “Northwest Indiana Writing Project 2012-2013 Seed Teacher Leadership Development Grant Program.”

Bortoletto, Daniela; physics, from U.S. Department of Energy, \$35,000, “An Experimental and Theoretical High Energy Physics Program.”

Bouck, Emily C; educational studies, from U.S. Department of Education, \$198,460, “MathSpeak: Hearing Math; Action 2 for Grant 105715.”

Boudouris, Bryan W; **Beaudoin, Stephen P**; **Doucette, Suzanne C**; **Wu, Yue** and **Xia, Yu**; chemical engineering, chemistry, from American Chemical Society, \$8,500, “ACS Project Seed at Purdue University.”

Briggs, Scott D; biochemistry, from Purdue Research Foundation: Special Incentive Research Grant (SIRG), \$17,287, “Investigating the Biochemical & Biological Role of Histone Demethylases in the Map Kinase Signal Transduction Pathway.”

Brown, Cordelia M; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Development of a Model for Facilitating and Integrating Community into Engineering Learning Environments.”

Buckius, Richard O; Vice President for Research, from Purdue University, \$10,000, “12-13 SFG, Indiana University Purdue University at Indianapolis (IUPUI), Engineering - Technology, Dr. Jing Zhang: High Proton-Conductive Cermet Membranes for Hydrogen Separation.”

Buckius, Richard O; Vice President for Research, from Purdue University, \$10,000, “12-13 Purdue Research Foundation (PRF) SFG, Indiana University Purdue University at Indianapolis (IUPUI) — Science, Dr. William Gilhooly: Carbon & Sulfur Cycling in Anoxic Cator Lake, Washington.”

Buckius, Richard O; Vice President for Research, from Purdue University, \$10,000, “12-13 Purdue Research Foundation (PRF) SFG, Indiana University Purdue University at Indianapolis (IUPUI) — Science, Dr. Greg Anderson: Effect of Magnesium on Soil Persistence of the Pathogen *Pseudomonas Aeruginosa*.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$578,071, “Joint Transportation Research Program 2012-2013 Funds.”

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$1,150,000, “Indiana Space Grant Consortium Five Year Renewal Proposal for Activity Years 20-24 (March 15, 2010 - March 14, 2015); Supplement for Grant 104565.”

Camberato, James J; agronomy, from Wolf Trax Inc, \$200, “Crop Response to Micronutrient Fertilizers.”

Camberato, James J; agronomy, from Koch Agronomic Services, LLC, \$10,439, “The Effects of G77 Nitrification Inhibitor on Corn Nitrogen Reponse (2012).”

Capponi, Agostino; industrial engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Systemic Risk in Financial Systems.”

Casteel, Shaun N; agronomy, from Monsanto Company, \$200, “Soybean Extension Research.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$5,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne IUF Miscellaneous Expenses Fund.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$37,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne Student Technology Fund.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$9,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne National Board Of Medical Examiners (NBME) Shelf Exam Fund.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$375,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne Expansion Funding - State Support.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$22,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne Student Activity Fund.”

Chang, Fen-Lei; medical education — Fort Wayne campus, from Indiana University, \$113,603, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne IU Health Student Expansion Funding.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$8,000, “FY 12-13 Indiana University School of Medicine (IUSM) Fort Wayne Life Cycle Funding.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University School of Medicine, \$100,000, “Amendment 2 to Expansion of Medical School Education into Full Four-Year Program [Grant 204686].”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$300,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne General Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$100,000, “FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne Chang Start Up.”

Chapple, Clint C; biochemistry, from Ross Graduate Fellowship-Assistantship, \$17,287, “Woodworth, Benjamin D.”

Chen, Jun and Frankel, Steven H; mechanical engineering, from American Heart Association, \$26,000, “Circulatory Support for the Univentricular Fontan Circulation - Fellowship for Anna-Elodie Kerlo.”

Chen, Weinong W; aeronautical & astronautical engineering, from Corvid Technologies, \$30,000, “High Strain Rate Characterization of Hybrid III Adaptive Trajectory Design (ATD) and Military Boot Polymer Materials.”

Chen, Weinong W; aeronautical & astronautical engineering, from Applied Research Associates, Inc., \$9,740, “High-Rate Compressive Response of a Foam Under 1-D Stress and 1-D Strain Loading at Various Temperatures.”

Chen, Zhihong; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Radiation Hardened Graphened Nano-Ribbon Based Low Power Spintronic Devices.”

Cheng, Ji-Xin; biomedical engineering, from PHS-NIH National Center for Research Resource, \$203,300, “Vibrational Photo-acoustic Microscopy for Bond-Selective Tissue Analysis.”

Cheng, Ji-Xin; biomedical engineering, from American Heart Association, \$26,000, “Purdue University Wang - American Heart Fellowship.”

Childress, Michael O; veterinary clinical science, from Science Applications International Corp-SAIC, \$11,597, “COTC007b: Pre-clinical Trial of Three Indenoisquinolines in Outbred Dogs Diagnosed with Non-Hodgkins Lymphoma.”

Chmielewski, Jean A; chemistry, from National Science Foundation, \$388,000, “Design of Functionalized Collagen Peptide Supramolecular Assemblies.”

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from Office of Naval Research, \$302,540, “Integrated Imaging System for DNA-Based Nanostructures and Nanorobotics.” (a Discovery Park award — Birck Nanotechnology Center)

Choi, Jong Hyun; mechanical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Advanced Nanomanufacturing of Tunable Graphene Nano Geometry Using Self-Assembled DNA Origami.”

Christian, John A; comparative pathobiology, from Idexx Laboratories, Inc., \$500, “National Cytology Resource.”

Christian, John A; comparative pathobiology, from Western University of Health Sciences, \$5,655, “Cytology Resource Center.”

Christmon, Kenneth C; diversity and multicultural affairs - fort wayne campus, from Indiana Department of Workforce Development, \$9,334, “Career and Technical Education Student Services 2011/2012; Amendment 2; Grant 205347.”

Clark, Jason V; electrical & computer engineering, from Gerchberg, \$18,725, “Robotic Surface Actuator.” (a Discovery Park award — Birck Nanotechnology Center)

Clark, Jason V; electrical & computer engineering, from Thornberry Technologies, LLC, \$31,923, “Piezoelectric Inertial Measurement Unit.” (a Discovery Park award — Birck Nanotechnology Center)

Clawson, Rosalee A; political science, from Ross Graduate Fellowship-Assistantship, \$14,936, “Forester, Summer.”

Constable, Peter D; veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$5,400, “ECC Residency Training Program.”

Constable, Peter D; veterinary clinical science, from VCA Antech Inc, \$9,630, “Radiology Residency Support.”

Cooks, Robert G; chemistry, from Thermo Fisher Scientific, \$50,000, “Thermo Fisher Voluntary Support Account.”

Cooper, James A; electrical & computer engineering, from II-VI Foundation, \$48,711, “II-VI Foundation Research Gift.”

Couetil, Laurent L and Nogradi, Nora; veterinary clinical science, from USA Equestrian Inc, \$21,218, “Comparison of Inhaled Levalbuterol and Racemic Albuterol in Horses Affected with Recurrent Airway Obstruction (RAO).”

Culurciello, Eugenio; biomedical engineering, from National Science Foundation, \$11,250, “Research Experience for Undergraduates (REU) Supplement: Instrument Development for Biological Research (IDBR): High-Throughput Instrumentation for Lipid Bilayers and Patch-Clamp.”

Culurciello, Eugenio; biomedical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Hardware & Software Models of the Human Visual System.”

Cushman, Mark S; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$223,849, “Novel Topoisomerase I Inhibitors.”

Das, Chittaranjan and Davies, Christopher W; chemistry, from American Heart Association, \$52,000, “Christopher Davies 2012 AMH Fellowship - Structural and Functional Characterization of AMSH Recruitment to the ESCRT Complex.”

Dehr, Karol A and Kim, Il-Hee; English & linguistics — Fort Wayne campus, educational studies — Fort Wayne campus, from National Writing Project, \$20,000, “Teacher Leadership Development 2012-2013.”

Del Caro, Adrian; foreign language & literature, from Ross Graduate Fellowship-Assistantship, \$17,644, “Shimoura, Shinji.”

Del Caro, Adrian; foreign language & literature, from Ross Graduate Fellowship-Assistantship, \$17,644, “Follett, Eric Anthony.”

Doudareva, Natalia; horticulture & landscape architecture, from Ross Graduate Fellowship-Assistantship, \$17,287, “Henry, Laura Kaleigh.”

Dukes, Jeffrey S; forestry & natural resources, from National Science Foundation, \$7,500, “Research Experience for Undergraduates (REU) Supplement to Collaborative Research: Characterizing Climate-Induced Qualitative Changes in Plant Biopolymer Composition and Their Influence on Soil Processes.” (a Discovery Park award — Purdue Climate Change Research Center)

Dukes, Jeffrey S; forestry & natural resources, from National Science Foundation, \$18,105, “ROA Supplement to Collaborative Research: Characterizing Climate-Induced Qualitative Changes in Plant Biopolymer Composition and Their Influence on Soil Processes.” (a Discovery Park award — Purdue Climate Change Research Center)

Dunford, Benjamin B; management, from Ross Graduate Fellowship-Assistantship, \$15,888, “Perrigino, Matthew.”

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$934,999, “Taiper Supplement; Modification of Grant 2009-St-061-CI0001.” (a Discovery Park award — Discovery Park administration)

Eigenmann, Rudolf; electrical & computer engineering, from Colorado State University, \$16,475, “Sponsorship for LCPC International Workshop.”

Eigenmann, Rudolf; electrical & computer engineering, from Intel Corporation, \$25,000, “Compilation Technique from Intel.”

Elmqvist, Lars Niklas E; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Context-Aware Navigation in Large Visual Spaces.”

Engel, Bernard A; Hahn, Leighanne and Theller, Lawrence O; agricultural & biological engineering, Indiana State Chemist, from State Board of Agriculture of Colorado, \$26,650, “Driftwatch Region 8-Colorado.”

Femrite, Stephanie; field extension educators, from Greater Lafayette Community Foundation, \$1,136, “Mobile Challenge Course.”

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

Filley, Timothy R; earth & atmospheric sciences, from The Institute for Aegean Prehistory, \$1,534, “Calibration of Plant Lignin Chemistry and Isotope Composition for Tracing Plant Input to Soils.”

Filley, Timothy R; earth & atmospheric sciences, from Purdue Doctoral Program, \$17,287, “Gibson, Christy.”

Fisher, Timothy and Ruan, Xiulin; mechanical engineering, from Case Western Reserve University, \$285,025, “Nanofabrication of Tunable 3-D Nanotube Architectures; Amendment 1; Grant 105800.” (a Discovery Park award — Birck Nanotechnology Center)

Flores, Joseph I; Education Opportunities Program — Calumet campus, from Indiana Department of Education, \$21,841, “Residential Upward Bound Food Service Program.”

Forbes, Beth A; agricultural communication, from Ohio State University, \$26,918, “Cooperative Venture to Develop a Joint Electronic News Service.”

Frankel, Steven H; mechanical engineering, from High Performance Technologies Inc, \$39,069, “Modification 2 to Task Order 1 (PP-Computational Fluid Dynamics (CFD)-KY02-105-P3) [Grant 105518].”

Frankel, Steven H; mechanical engineering, from CD Adapco, \$3,000, “Support for Fluid Dynamics/Hemodynamics.”

Franks, Melissa M; Macdermid Wadsworth, Shelley; Boushey, Carol J and Weaver, Connie M; child development & family studies, health and human sciences, foods & nutrition, from PHS-NIH National Institute of Child Health and Human Development, \$6,000, “Emerging Research on Families and Health.”

French, Doran C; child development & family studies, from Ross Graduate Fellowship-Assistantship, \$19,468, “Gold, Zachary Samuel.”

Fuchs, Philip L; chemistry, from Dow Agro Sciences, \$16,500, “Small Molecule <10mg for Agricultural Testing.”

Fulton, Joan R; agricultural economics, from United Soybean Board, \$76,800, “U.S. Soy Incremental Value Capture Platform.”

Garimella, Suresh V; mechanical engineering, from National Science Foundation, \$38,860, “NSF Industry/University Cooperative Research Center on Compact, High-Performance Cooling Technologies Research.”

Garimella, Suresh V; mechanical engineering, from Multi-Sponsored Industrials, \$30,000, “Cooling Technologies Research Center (CTRC) 2011 Membership.”

Garrison, James L and Haase, Jennifer S; aeronautical & astronautical engineering, earth & atmospheric sciences, from National Aeronautics and Space Administration, \$64,122, “Evaluation of Radiological Methods for Airborne Global Navigation Satellite System (GNSS) Occultations.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “Information Measures in Statistical Orbit Determination.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “Information Measures in Statistical Orbit Determination.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “NASA Earth and Space Science Fellowship (NESSF) for Rashmi Shah Year 2 — Remote Sensing of Ocean Surface using Digital Communication Signals.”

Gilbert, Hersch J; earth & atmospheric sciences, from National Science Foundation, \$100,218, “Collaborative Research: Structure and Dynamics of the North American Craton — An Earthscope Swath from the Ozarks to the Grenville; Amendment 2.”

Giordano, Nicholas J; physics, from Ross Graduate Fellowship-Assistantship, \$17,222, “Zhong, Changchun.”

Giordano, Nicholas J; physics, from Ross Graduate Fellowship-Assistantship, \$17,222, “He, Yifeng.”

Gotham, Douglas J; Liu, Lu and Preckel, Paul V; Energy Center, industrial engineering, agricultural economics, from National Association of Regulatory Utility Commissioners (NARUC), \$152,023, “Proposal to Assist the Eastern Interconnection States Planning Council (EISPC) Members with Transmission Planning Services.” (a Discovery Park award — Energy Center)

Gray, Nicholas W; diversity and multicultural affairs — Fort Wayne campus, from Indiana Department of Education, \$12,986, “Indiana University-Purdue University Fort Wayne (IPFW) Office of Diversity and Multicultural Affairs Summer Food Service Program.”

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship-Assistantship, \$17,644, “Gravaio, Marie E.”

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship-Assistantship, \$17,644, “Steele-Jones, Diana C.”

Gulen, Huseyin; management, from Ross Graduate Fellowship-Assistantship, \$15,888, “Kim, Jin Hee.”

Gulen, Huseyin; management, from Ross Graduate Fellowship-Assistantship, \$15,888, “Wang, Xue.”

Hadley, Vickie J; field extension educators, from City of Fort Wayne, \$5,000, “Get Checking.”

Hamilton, Roy L; education opportunities program — Calumet campus, from Indiana Department of Education, \$1,348, “Summer Food Service Program 2012.”

Han, Bumsoo; mechanical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Tumor Microenvironment on Chip.”

Handwerker, Carol A; materials engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Core-Shell Nanoparticles for Printed Electronics.”

Harbin, Sherry L and Han, Bumsoo; basic medical science, mechanical engineering, from PHS-NIH National Heart, Lung & Blood Institute, \$379,210, “Collagen Cross-Links Direct Matrix-Induced Vasculogenesis via Tunable Pathways.”

Harper, William A; health & kinesiology, from Indiana Department of Education, \$83,288, “Purdue Athletes Life Success Program 2012.”

Harris, Michael T; engineering administration engineering experiment, from Ross Graduate Fellowship-Assistantship, \$18,263, “Harris, James W.”

Harshvardhan, Anand; WBAA, from Ross Graduate Fellowship-Assistantship, \$17,287, “Dow Agro Sciences (DAS), Sampa.”

Hartman, Nathan W; computer graphics technology, from General Motors Foundation, \$50,000, “Product Lifecycle Management Center of Excellence (PLM).”

Hartman, Nathan W; computer graphics technology, from General Motors Foundation, \$50,000, “Product Lifecycle Management Center of Excellence (PLM).”

Hassanein, Ahmed; nuclear engineering, from National Nuclear Security Administration, \$233,333, “Modeling of Special Nuclear Material (SNM) Fission Signatures and Cosmic-Ray Induced Neutron Backgrounds; Modification 2 for Grant 105287.”

Heeg, Marlene O; pharmacy practice, from Multi-Sponsored Industrials, \$10,000, “2012 Rome Foundation Update from Digestive Diseases Week (DDW).”

Heeg, Marlene O; pharmacy — administration, from Multi-Sponsored Industrials, \$400,000, “2012 Inflammatory Bowel Disease (IBD) Centers of Educational Expertise and National Initiative.”

Heeg, Marlene O; pharmacy practice, from Multi-Sponsored Industrials, \$25,000, “2012 Rome Foundation Update from Digestive Diseases Week (DDW).”

Hertel, Thomas W; agricultural economics, from Multi-Sponsored Industrials, \$7,500, “Global Trade Analysis Project (GTAP) Consortium.”

Hertel, Thomas W; agricultural economics, from Multi-Sponsored Industrials, \$19,650, “Global Trade Analysis Project (GTAP) Consortium.”

Hertel, Thomas W; agricultural economics, from Multi-Sponsored Industrials, \$19,675, “Global Trade Analysis Project (GTAP) Consortium.”

Hibiki, Takashi; nuclear engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Development of Interfacial Area Transport Equation for Next Generation Nuclear System Analysis Computational Code.”

Hill, John E; educational studies, from National Rural Education Association, \$59,284, “Cooperative Agreement with National Rural Education Association (NREA) for 2012-2013.”

Hockerman, Gregory H; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$279,409, “L-Type Ca²⁺ Channel Modulation of Beta Cells Function.”

HogenEsch, Harm; veterinary medicine - administration, from PHS-NIH National Center for Research Resource, \$126,283, “Research Training for Veterinarians in Comparative Pathobiology.”

HogenEsch, Harm; comparative pathobiology, from National Institutes of Health, \$44,509, "LT Reed & L Baseler 2011-2013 NIH Fellowship."

Hook, Tomas O; forestry & natural resources, from University of Illinois at Champaign-Urbana, \$17,000, "Research Summer Internship Program."

Hosking, Antony L; computer science, from Association Internationale Pour Les Technology Objet, \$3,064, "European Conference on Object-Oriented Programming (ECOOP) 2012 Conference."

Howe, Katherine M; botany & plant pathology, from National Park Service, \$20,000, "Northern Great Plains Invasive Species Early Detection Flyer."

Huber, Matthew; earth & atmospheric sciences, from Ross Graduate Fellowship-Assistantship, \$17,287, "Acosta, Rene Paul."

Hunte, Haslyn E; health & kinesiology, from George Washington Carver Fellowship, \$21,394, "Britt, Angelitta."

Hurt, R D; history, from Ross Graduate Fellowship-Assistantship, \$14,936, "Snider, Anne C."

Irudayaraj, Joseph M; agricultural & biological engineering, from Purdue Research Foundation: Special Incentive Research Grant (SIRG), \$17,287, "MRNA Detection & Qualitification in Single Live Cancer Cells by High Speed Second Harmonic Superresolution Microscopy (SHASM)."

Ivantsynova, Monika; agricultural & biological engineering, from Bobcat Company, \$49,627, "Optimization of Valve Plate to Reduce Noise and Control Effort for Axial Piston Pump."

Johal, Gurmukh S and Weil, Clifford F; botany & plant pathology, agronomy, from National Science Foundation, \$828,468, "Mutant-Assisted Exploration of Natural Variation Underlying R Gene-Mediated Immunity in Maize; Amendment 5 for Grant 103376."

Johal, Gurmukh S; botany & plant pathology, from Pioneer Hi-Bred International, Inc., \$206,900, "Transgenic Evaluation of the Maize CRW1 Gene and Map-Based Cloning of a Putative Corn Rootworm Resistance Gene, CRW2."

Johnson, William G; botany & plant pathology, from Monsanto Company, \$37,800, "Long Term Evaluation of Resistance Evolution in Dicamba Soybean."

Jung, Byunghoo and Roy, Kaushik; electrical & computer engineering, from National Science Foundation, \$207,543, "Software and Hardware Foundations (SHF): Medium: Collaborative Research: System Level Self Correction Using on-Chip Micro Sensor Network and Autonomous Feedback; Amendment 2 for Grant 104903."

Kak, Avinash C and Park, Johnny; electrical & computer engineering, from Applied Research Associates, Inc, \$275,527, "Subcontract S-001460.00000.PDU PO12-000143."

Kak, Avinash C; electrical & computer engineering, from Elsevier Ltd, \$3,888, "Editorship of Our Journal, Computer Vision Graphics and Image Processing (CVGIP): Image Understand."

Kaplan, Ian and Blubaugh, Carmen K; entomology, from The Ceres Trust, \$9,938, "Can Ground Beetles Limit Weeds in Organic Vegetable Systems?"

Karpicke, Jeffrey D; psychological science, from Institute of Education Sciences, \$373,410, "Retrieval-Oriented Learning Strategies — Action 4 for Grant105339."

Kaufmann, Erika B; mathematics, from National Science Foundation, \$91,447, "Boundary Effects in Critical Phenomena; Amendment 2 for Grant 14876."

Keener, Kevin M; food science, from Griffith Laboratories, \$100, "Multi-Sponsored Gift."

Kenttamaa, Hilkkka I; chemistry, from Halldor Topsoe, \$6,000, "Change in Composition of Refinery Streams During Processing."

Kenttamaa, Hilkkka I; chemistry, from Neste Oil Oyj, \$20,000, "Kenttamaa Voluntary Support."

Key, Nicole L; mechanical engineering, from National Aeronautics and Space Administration, \$30,000, "Clocking Effects on the Unsteady Vane Boundary Layer Response of an Embedded Compressor Stage — Year 3: Implementation of Developed Quasi Wall Shear Stress (QWSS) Technique."

Kildishev, Alexander V; electrical & computer engineering, from Raytheon, \$9,500, "Electro-Optics Metamaterial Based Nanopillar Fabrication." (a Discovery Park award — Birck Nanotechnology Center)

Kildishev, Alexander V; electrical & computer engineering, from Raytheon, \$9,500, "Fine Pattern Optimization for Si-Based Dielectric Metamaterial Layer." (a Discovery Park award — Birck Nanotechnology Center)

Kim, Chang H and Hogenesch, Harm; comparative pathobiology, veterinary medicine — administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$333,936, "Migration and Function of Th17 Cells in the Gut."

Kim, Kee Hong; food science, from Korea Food Research Institute (KFRI), \$137,485, "Identification of Anti-Obese Phytochemicals and Their Metabolites."

Kluender, Keith R; speech, language & hearing science, from Ross Graduate Fellowship-Assistantship, \$17,222, "Jiang, Yue."

Knapp, Deborah W; veterinary clinical science, from Poynter, Robert and Donna (Individual Donors), \$5,000, "Cancer Treatment Program."

Kraebber, Henry W and Holewinski, Jeffrey K; mechanical engineering technology, from Fancy Fortune Cookies, Inc., \$9,965, "Giant Fortune Cookie Manufacturing."

Kranz, Sibylle; foods & nutrition, from Kellogg Foundation, \$90,000, "Nutrition Research on the Association Between Fiber and Whole Grain Intakes and Risk for Chronic Diseases."

Kuang, Shihuan; animal sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$329,400, "Notch Stem Cell Fate in Muscle."

Kuhn, Richard J; biological sciences, from Purdue University F N Andrews Fellowship, \$17,287, "LaRue, Elizabeth."

Kulkarni, Milind; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVRP), \$17,287, "Exploiting Library Semantics for General-Purpose Computing on Graphics Processing Units (GPGPU) Programming."

Lanman, Jason K; biological sciences, from Purdue University, \$10,000, "Electron Microscope Investigation of Hepatitis C Virus (HCV) Replication Sites."

Lasher-Trapp, Sonia G; earth & atmospheric sciences, from National Science Foundation, \$131,076, "Ice Nucleation in Maritime Cumuli: Considering Dynamical and Microphysical Interactions; Amendment 3 for Grant 104846."

Lechtenberg, Victor L; president, from Woodrow Wilson National Fellowship Foundation, \$24,000, "Indiana Teaching Fellowship Program."

Lempert, Laszlo; mathematics, from Lynn Interdisciplinary Graduate Fellowship, \$17,287, “Liu, Xiao.”

Li, Peijun; mathematics, from National Science Foundation, \$432,250, “Faculty Early Career Development (CAREER): Direct and Inverse Scattering Problems for Wave Propagation in Complex and Random Environments.”

Liceaga, Andrea M; food science, from Ross Graduate Fellowship-Assistantship, \$17,287, “Thomson, Shanleigh.”

Lopez, Roberto G; horticulture & landscape architecture, from Purdue Doctoral Program, \$622, “Ortiz, Michael Anthony.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$1,750, “Multi Sponsored Gift Account.”

Lopp, Denver W; aviation technology, from Delta Air Lines Inc, \$37,068, “Analysis and Operational Improvement for Aircraft Turn Times.”

Lucht, Robert P; mechanical engineering, from GE Aviation, \$300,000, “High Pressure Twin-Annular Pre-Swirl (TAPS) Flame Visualization.”

Lundstrom, Mark S; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Nanohub - iCheer.”

Lundstrom, Mark S; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Nanohub - iCheer.”

Lynall, Matthew D; management, from Purdue University, \$2,500, “Krannerts Experiential Learning Initiative (ELI).”

MacDermid Wadsworth, Shelley; child development & family studies, from North Dakota National Guard Family Pro, \$4,000, “Passport Toward Success Implementation.”

MacDermid Wadsworth, Shelley; child development & family studies, from Zero to Three, \$5,250, “Evaluation of a Coming Together Around Veteran Families Training.”

MacDermid Wadsworth, Shelley; child development & family studies, from Sesame Workshop, \$9,000, “Talk, Listen, Connect (TLC) Event.”

Marchand, Belinda G; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$50,000, “Constrained Two-Level Corrections for Autonomous Onboard Targeting; Supplement 2 for Grant 105764.”

Martinez, Carlos J; materials engineering, from Universal Technology Corporation, \$10,500, “Fabrication of Porous Silicon Oxycarbide (SiOC) Microparticles and Capsules for Ceramic Foam Formulations.”

Mason, Linda J; entomology, from Nestle, \$2,000, “Package Testing for Insect Penetration.”

Mattes, Richard D; foods & nutrition, from National Cattlemens Beef Association, \$100,000, “Effects of Beef-Protein Consumption on Energy Intake-the Protein Leverage Hypothesis.”

Mattes, Richard D; foods & nutrition, from Almond Board of California, \$373,512, “The Effects of Including Almonds in an Energy-Restricted Diet on Weight, Abdominal Fat Loss, Blood Pressure, and Cognitive Function.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Sakata Seed America Inc., \$200, “Research for 1995 Vegetable Variety Trial Program.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Sakata Seed America Inc., \$300, “Research for 1995 Vegetable Variety Trial Program.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Sakata Seed America Inc., \$200, “Research for 1995 Vegetable Variety Trial Program.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Sakata Seed America Inc., \$700, “Research for 1995 Vegetable Variety Trial Program.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Sakata Seed America Inc., \$1,400, “Research for 1995 Vegetable Variety Trial Program.”

McComb, Sara A; nursing, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Examining Mental Model Convergence Process and its Consequences.”

McLuckey, Scott A; chemistry, from Ab Sciex, \$311,981, “Electrostatic Ion Trapping and Ion/Ion Reaction Strategies for Hybrid Linear Ion Trap Tandem Mass Spectrometers.”

McLuckey, Scott A; chemistry, from U.S. Department of Energy, \$374,000, “The Dynamics and Thermodynamics of Gaseous Macro-Ions.”

McNamara, Kevin T; agricultural economics, from Indiana National Guard, \$3,061, “MS Agriculture Development Team (ADT) I Training: Primitive Storage, Handling & PICS.”

McNamara, Kevin T and Bralts, Vincent F; agricultural economics, agricultural & biological engineering, from Indiana National Guard, \$4,423, “MS Agriculture Development Team (ADT) I Training: Irrigation and Hydrology Concepts.”

Mengiste, Tesfaye D; botany & plant pathology, from National Science Foundation, \$100,000, “Histone Modifications and Mediator Complex in Plant Innate Immunity to Necrotrophic Fungi; Amendment 3 for Grant 105358.”

Mesecar, Andrew D; biological sciences, from Vanderbilt University, \$90,223, “Polymerase Proteins in Coronavirus Replication.”

Michalski, Greg M; earth & atmospheric sciences, from Ross Graduate Fellowship-Assistantship, \$17,287, “Walters, Wendell.”

Michalski, Greg M; earth & atmospheric sciences, from Environmental Protection Agency, \$17,000, “EPA Fellowship Michael King.”

Michalski, Greg M; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$17,376, “Wang, Fan.”

Miller, Margaret A; comparative pathobiology, from Western University of Health Sciences, \$1,885, “Honorarium for Animal Disease Diagnostic Laboratory.”

Minton, David A; earth & atmospheric sciences, from Ross Graduate Fellowship-Assistantship, \$17,222, “Crane, Kelsey.”

Mosakowski, Elaine M; management, from Accenture LLP, \$50,000, “Accenture LLP: Entrepreneurship Bootcamp for Veterans with Disabilities.”

Mroczek, Daniel K; child development & family studies, from University of Wisconsin-Madison, \$43,964, “Integrative Pathways to Health and Illness (Psychosocial Contributors to Health & Illness).”

Muir, William M and Perumbakkam, Sudeep; animal sciences, from Agricultural Research Service, \$137,363, “Enhancing Genetic Resistance to Mareks Disease in Chicken via Allele-Specific Expression Screens and Genome-Wide Selection.”

Neher, Susan J; field extension educators, from Community Foundation of Howard Co, Inc, \$3,500, “Educational Equipment.”

Niyogi, Devdutta S; agronomy, from Debbie P & Louise A Cascardo, \$500, “State Climatology.”

No, Song I and Kim, Jeong-Nam; liberal arts — administration, communication, from The Academy of Korean Studies, \$30,000, “Korean Culture Consequence: Building Sustainable Soft Power through Hallyu in Latin America.”

Nolte, David D and Turek, John J; physics, basic medical science, from Trask Trust Fund, \$48,324, “Dynamic Imaging for in Vitro Embryo Viability Assessment: A New Assisted Reproductive Technology.”

Nyenhuis, John A; electrical & computer engineering, from Zimmer, \$1,000, “Interactions of Zimmer Orthopaedic Implant HKTE with the Electromagnetic Fields in Magnetic Resonance Imaging (MRI) - Statement of Work (SOW) 4.”

Ohm, Herbert W; agronomy, from Multi-Sponsored Industrials, \$35,000, “Partnership for Research and Education in Plant Breeding and Genetics at Purdue University — Memo Match.”

Otto, Kevin J and Panitch, Alyssa; biomedical engineering, from Defense Advanced Research Projects Agency, \$173,105, “Normal and Accelerated Failure Assessment of New Quantitative in Vitro and in Vivo Neural Interfaces; Modification 3.”

Owens, Phillip R; agronomy, from Natural Resources Conservation Services, \$150,000, “Universal Soil Classification System Development and Application.”

Paarlberg, Philip L; agricultural economics, from Texas A&M University, \$15,000, “Modeling Hypothetical Hpai Events.”

Panitch, Alyssa; biomedical engineering, from George Washington Carver Fellowship, \$21,476, “Vazquez Portalatin, Neida M.”

Park, Kinam and Rundell, Ann E; biomedical engineering, from Showalter Trust, \$60,000, “Glucose Detection in Exhaled Breath Condensate.”

Patton, Aaron J; agronomy, from Dow Agro Sciences, \$18,800, “Multi-Sponsored.”

Patton, Aaron J; agronomy, from Midwest Regional Turf Foundation, \$14,500, “Turfgrass Research.”

Pawley, Alice L; engineering education, from National Science Foundation, \$26,758, “Career: Learning from Small Numbers: Using Personal Narratives by Underrepresented Undergraduate Students to Promote Institutional Change in Engineering Education.”

Peroulis, Dimitrios; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$287,956, “Field Programmable Filter Arrays (FPFAS).” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios and Chappell, William J; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$100,000, “Miniature Broadband Tunable Filters for EW Receivers.” (a Discovery Park award — electrical & computer engineering.)

Peterson, Nancy J; English, from Ross Graduate Fellowship-Assistantship, \$17,644, “Marino, Nicholas Paul.”

Peterson, Nancy J; English, from Ross Graduate Fellowship-Assistantship, \$14,936, “Suh, Jungkyu.”

Pijanowski, Bryan C; forestry & natural resources, from University of Illinois, \$48,418, “TippingPointPlanner and AgIndicator Decision Support Development Part 2.”

Porterfield, D. M; agricultural & biological engineering, from PHS-NIH National Center for Research Resource, \$184,223, “The Goldman Chip: A Biomedical Micro and Nanosystems (bioMEMS) Platform for Integrating Patch Clamp with Ion-Selective Microsensors.” (a Discovery Park award — Bindley Bioscience Center)

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Characterization of Heat and Mass Transport in Catalyzed Magnesium.”

Purzer, Senay; engineering education, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “A Study of Engineering Students Design Analysis and Decision Making Skills.”

Pushkar, Yulia N; physics, from U.S. Department of Energy, \$150,000, “SISGR: Understanding Electronic and Atomic Requirements in Catalytic Water Oxidation; Modification 2 for Grant 104675.”

Pyrak-Nolte, Laura J; physics, from U.S. Department of Energy, \$147,852, “The Physics of Swarms and Interfaces in Fractures: Functionalized Particles and Programmable Seismic Scatters.”

Qi, Minghao; electrical & computer engineering, from Defense Threat Reduction Agency, \$99,957, “Micro-Photonic Resonator Array on an Inelastic Substrate for Unattended Sensing of Tampering.” (a Discovery Park award — Birck Nanotechnology Center)

Rajwa, Bartlomiej P and Pothén, Alex; basic medical science, computer science, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$198,990, “Automated Spectral Data Transformations and Analysis Pipeline for High-Throughput Flow Cytometry.” (a Discovery Park award — Bindley Bioscience Center)

Ratliff, Timothy L; comparative pathobiology, from Carroll County Cancer Association, \$100, “Cancer Research.”

Ratliff, Timothy L; Vice President for Research, from PHS-NIH National Cancer Institute, \$106,486, “National Cancer Institute (NCI) Cancer Center Supplement for Undergraduate Student Research Experiences- P30S (Year 3).”

Rhoads, Jeffrey F; mechanical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Electromagnetically-Transduced Microresonator Arrays for Sensing & Signal Processing.”

Richert, Brian T; animal sciences, from Fleischmanns Yeast Inc., \$2,000, “Swine Research.”

Richmond, Douglas S; entomology, from Multi-Sponsored Industrials, \$10,425, “Multi-Sponsored.”

Richmond, Douglas S; entomology, from Bayer Cropscience LP, \$15,375, “Turfgrass Entomology Research.”

Ridgway, Kenneth D; earth & atmospheric sciences, from David M. Knox Endowment, \$19,394, “Kimberle, Davis.”

Rosenthal, Frank S; McGlothlin, James D; Zimmerman, Neil J and Zheng, Wei; health sciences, from PHS-CDC National Institute of Occupational Safety and Health, \$81,663, “Occupational Safety and Health Training Grant.”

Ruan, Xiulin; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$18,263, “Lu, Zexi.”

Ruan, Xiulin; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$18,263, “Li, Xiangyu.”

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, \$38,000, “Tribology Lab Research.”

Sadeghi, Farshid; mechanical engineering, from Tecumseh Compressor Group, \$64,088, “Tribology Lab Research.”

Sadof, Clifford S; entomology, from Purdue Extension Marion County, \$4,000, “Ornamental Insect Research.”

Saeedifard, Maryam; electrical & computer engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “A New Hybrid Multilevel Converter for Grid Integration of Wind Energy.”

Samarapungavan, Ala; educational studies, from George Washington Carver Fellowship, \$21,394, “Harris, Crystal R.”

Samarapungavan, Ala; educational studies, from Purdue University F N Andrews Fellowship, \$18,504, “Moss, Jennifer.”

Samarapungavan, Ala; educational studies, from Ross Graduate Fellowship-Assistantship, \$18,504, “Hodges, Jaret.”

Samarapungavan, Ala; educational studies, from Winifred B. Bilsland Endowment, \$14,070, “Liu, Jia.”

Samarapungavan, Ala; educational studies, from Ross Graduate Fellowship-Assistantship, \$18,504, “Ma, Xiojun.”

Samarapungavan, Ala; educational studies, from Purdue Doctoral Program, \$18,504, “Satsangi, Rajiv.”

Samarapungavan, Ala; educational studies, from Purdue University F N Andrews Fellowship, \$18,504, “Courtney, William.”

Sangid, Michael D; aeronautical & astronautical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Computational Process Modeling of Aerospace Components.”

Scharf, Michael E and Sethi, Amit; entomology, from National Science Foundation, \$298,977, “Engineering of Termite-Derived Biocatalysts for Use in Sustainable Bioenergy Production.”

Schoenlein, William E and Van Alstine, William G; biomedical engineering, comparative pathobiology, from Medical Engineering & Development Institute Inc., \$56,982, “Intravascular Device Testing; Studies: CI-MIRA, CI-ESDA, CI-35VB, CI-CLX2 Grant 203133.”

Sepulveda, Maria S; forestry & natural resources, from U.S. Fish and Wildlife Service, \$62,000, “The Presence of Endocrine Disrupting Compounds, Pharmaceuticals, and Personal Care Products on the Baca National Wildlife Refuge and Their Effect on Two Species of Imperiled Fish; Modification 1.”

Shah, Kavita; chemistry, from Purdue Research Foundation: Special Incentive Research Grant (SIRG), \$17,287, “Aurora a Kinase Promotes Chemoresistance in Breast Cancer through Phosphorylation & Inactivation of Foxo Transcription Factors.”

Shalaev, Vladimir M and Boltasseva, Alexandra; electrical & computer engineering, from Stanford University, \$147,750, “Amendment 1 - Integrated Hybrid Nanophotonic Circuits (11055032) [Grant 105831].” (a Discovery Park award — Birck Nanotechnology Center)

Shaver, Gregory M; mechanical engineering, from Cummins Inc, \$273,124, “Real-Time Estimation and Control of Rate-Shaping for a Direct Acting Piezo-Electric Fuel Injector.”

Shaver, Gregory M; Saeedifard, Maryam and Wasynczuk, Oleg; mechanical engineering, electrical & computer engineering, from Cummins Inc, \$157,681, “Enabling Plug-In Capability and Engine Optimization for a Heavy-Duty Hybrid Vehicle System via Advanced Power Electronics.”

Shen, Jie; mathematics, from National Science Foundation, \$54,983, “Fast Spectral Methods and Their Applications.”

Shepson, Paul B; chemistry, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Studies of Biogenic Volatile Organic Compound Oxidation Using Proton Transfer Reaction Linear Ion Trap Mass Spectrometry.”

Shin, Yung C; mechanical engineering, from GE Aviation, \$50,000, “Amendment 2 (PO 14A32136) to Laser Assisted Machining of Ceramics [Grant 205459].”

Simpson, Garth J; Das, Chittaranjan and Qi, Minghao; chemistry, electrical & computer engineering, from PHS-NIH National Center for Research Resource, \$310,043, “Nonlinear Optical Imaging for Guiding Protein Structure Determination.” (a Discovery Park award — Bindley Bioscience Center)

Sloan, Mary Anne; Technical Assistance Program, from Indiana Hospital & Health Association, \$858,716, “Lean Six Sigma Healthcare Training and Implementation Technical Assistance for Indiana’s Hospitals.”

Sloan, Mary Anne; Technical Assistance Program, from Multi-Sponsored Industrials, \$2,720, “Multi-Sponsor Account I-HITEC.”

Sloan, Mary Anne; Technical Assistance Program, from West Virginia Department Health & Human Resources, \$66,952, “West Virginia Bureau for Public Health-Strengthening Public Health Infrastructure for Improved Health Outcomes.”

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$3,000, “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, \$2,059, “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, \$2,000, “Sensory Evaluation Research.”

Snow, Lowell D; Technical Assistance Program, from Imaginestics, LLC, \$25,000, “Connecting American Manufacturing.”

Son, Steven F; Groven, Lori J and Pourpoint, Timothee L; mechanical engineering, aeronautical & astronautical engineering, from Defense, U.S. Department of, \$119,375, “Dynamic Infrared and Visible Microscopic Imaging System for High Energy Density Materials Heated by Coupled Acoustic and Electromagnetic Energy.”

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, \$66,000, “Development of High Performance Hybrid Fuels: NASA Space Technology Research Fellowship (NSTRF) for Zaseck, Chris.”

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.”

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.”

Spafford, Eugene H; computer science, from Lockheed Martin Corp., \$17,000, “Lockheed Martin Assistantships.”

Spafford, Eugene H; computer science, from John Wiley & Sons Limited England, \$2,480, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

St Jean, Wendy B; history and political science — Calumet campus, from Indiana Campus Compact, \$3,750, “Interpretative Center for Levi Coffin House.”

Stauffer, Cynthia V; biological sciences, from PHS-NIH National Institute of General Medical Science, \$111,213, “Biophysical Studies of Proteins Nucleic Acids and Viruses.”

Sterkenburg, Ronald; aviation technology, from Naval Air Systems Command (NAVAIR), \$4,000, "Vacuum-Assisted Resin Transfer Molding (VARTM) Training for NAVAIR."

Steup, Matthias P; philosophy, from Ross Graduate Fellowship-Assistantship, \$17,644, "Folk, Timothy J."

Story, Jon A; graduate school administration, from Indiana University School of Medicine, \$28,333, "Clinical and Translational Sciences Institute (CTSI) Predoctoral Trainee Award - Tully." (a Discovery Park award — Bindley Bioscience Center)

Straw, Mark L; animal sciences, from Agricultural Marketing Service, \$4,129, "Country of Origin Labeling (COOL) Retail Surveillance Activities."

Strobel, Johannes; engineering education, from Florida State University, \$51,826, "Collaborate Plan Align Learn Motivate Share (CPALMS), Floridas Teacher Standards Instructional Tool."

Sudhoff, Scott D; electrical & computer engineering, from Ford Motor Company, \$40,000, "Ford Motor Co. URP Award PhD Support."

Sypher, Howard E; communication, from Ross Graduate Fellowship-Assistantship, \$17,644, "Yakova, Liiya D."

Sypher, Howard E; communication, from Purdue University Special Initiative Program, \$19,394, "Long, Ziyu."

Sypher, Howard E; communication, from Purdue University Special Initiative Program, \$19,394, "Shorter, Shavonne R."

Trapp, Robert J; earth & atmospheric sciences, from Purdue Doctoral Program, \$17,287, "Dawson, Logan."

Trapp, Robert J; earth & atmospheric sciences, from Knox, David M. Endowment, \$19,394, "Carroll, Dereka."

Trapp, Robert J; earth & atmospheric sciences, from Chappelle, \$19,394, "Woznicki, Joseph."

Trumble, Kevin P; materials engineering, from National Science Foundation, \$8,000, "Air: Large-Scale Manufacturing of Metal Fibers by Modulation Assisted Machining."

Useem, Bert; sociology, from Ross Graduate Fellowship-Assistantship, \$14,992, "Miller, Ty."

Vanfossen, Phillip J; curriculum & instruction, from Winifred B. Bilsland Endowment, \$8,064, "Harris, Constance A."

Vanfossen, Phillip J; curriculum & instruction, from Purdue University F N Andrews Fellowship, \$18,504, "Vaughn, Erin."

Vanfossen, Phillip J; curriculum & instruction, from Winifred B. Bilsland Endowment, \$19,394, "Luo, Yi."

Vanfossen, Phillip J; curriculum & instruction, from Ross Graduate Fellowship-Assistantship, \$18,504, "Sasser, Hannah L."

Vanfossen, Phillip J; curriculum & instruction, from Purdue Doctoral Program, \$18,504, "Gilmetdinova, Alsu."

Vanfossen, Phillip J; curriculum & instruction, from Purdue University F N Andrews Fellowship, \$18,504, "Jung, Hyunyi."

Vanfossen, Phillip J; curriculum & instruction, from Ross Graduate Fellowship-Assistantship, \$18,504, "Deng, Yuwen."

Vanfossen, Phillip J; curriculum & instruction, from Purdue Doctoral Program, \$18,504, "Brott, Elizabeth."

Vanfossen, Phillip J; curriculum & instruction, from Purdue University F N Andrews Fellowship, \$7,693, "Wortinger, Kari I."

Vemulapalli, Tracy H; comparative pathobiology, from Akina, Inc. Business & Technology Center, \$36,188, "Drug Delivery System to Provide Local, Long-Term, Therapeutic Neuromuscular Blockade."

Vijaykumar, T N and Thottethodi, Mithuna S; electrical & computer engineering, from National Science Foundation, \$100,000, "Computing and Communication Foundations (CCF): Small: Coping with the Slowing of Dennards Scaling."

Vilensky, Joel A; medical education — Fort Wayne campus, from Indiana University, \$6,000, "FY 2012-2013 Indiana University School of Medicine (IUSM) Fort Wayne Dr. Vilensky Research Savings."

Viswanathan, Chandramouli; mechanical engineering — Calumet campus, from Town of Dyer, \$3,500, "Town of Dyer Storm Water Equivalent Residential User (ERU) Revision."

Vitek, Olga; statistics, from Qatar Foundation, \$52,228, "Statistical Methods and Computing for Functional Interpretation of High-Throughput Experiments in Molecular Systems Biology."

Vyn, Tony J; agronomy, from Fluid Fertilizer Foundation, \$700, "Agricultural Cropping Systems."

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

Wakenell, Patricia; animal disease diagnostic laboratory, from Multi-Sponsored Industrials, \$600, "Student Travel for Clinical Observation."

Weatherman, Kara D; pharmacy practice, from Cardinal Health, \$12,500, "Cardinal Health Fellowship in Clinical Nuclear Pharmacy and Radiopharmaceutical Safety."

Weaver, Connie M; foods & nutrition, from California Table Grape Commission, \$30,000, "The Effect of Grapes on Bone Health and Calcium Metabolism in a Rat Model of Postmenopausal Osteoporosis."

Weaver, Connie M; Campbell, Wayne W; Kuhn, Richard J; Rebar, Alan H; Savaiano, Dennis A; Story, Jon A; Wodicka, George R; Leary, James F; McCabe, George P; Turek, John J; Byrn, Stephen R; Freeman, Lynetta; Mattes, Richard D; Moore, George E; Murray, Michael D; Panitch, Alyssa; Teegarden, Dorothy; Van Alstine, William G and Witz, Steven M; foods & nutrition, biological sciences, Vice President for Research, graduate school administration, biomedical engineering, basic medical science, science — administration, industrial & physical pharmacy, veterinary clinical science, comparative pathobiology, pharmacy practice, Bindley Bioscience center, from Indiana University School of Medicine, \$820,546, "Indiana Clinical and Translational Science Institute (CTSI) — Year 5 Funding." (a Discovery Park award — Bindley Bioscience Center)

Weaver, Connie M; foods & nutrition, from Kraft Foods Global, Inc, \$160,000, "Kraft Foods Calcium Intake and Vascular."

Weller, Stephen C; horticulture & landscape architecture, from Mint Industry Research Council, \$5,000, "Mint Industry Research."

West, Terry R; earth & atmospheric sciences, from West, Terry R. & Shirley (Indiv Donor), \$100, "AEG Travel."

Whittinghill, David M; computer graphics technology, from St Vincent Foundation, \$25,000, "Development and Testing of a Kinect-Based Video Game to Improve Physical Therapy Treatment Compliance for Children with Motor Impairments."

Wilker, Jonathan J; chemistry, from National Science Foundation, \$294,000, "Novel Carbon Rich Organometallics Based on Iso-Triacetylene: Effects of Cross Conjugation; Amendment 2 for Grant 105542."

Wirth, Mary J; chemistry, from PHS-NIH National Cancer Institute, \$190,947, “Capillary Isoelectric Focusing (cIEF) of Glycoproteins in Short Nanoporous Channels.”

Wise, Kiersten A; botany & plant pathology, from Monsanto Company, \$66,780, “Evaluation of Fungicide Seed Treatments in Corn.”

Wise, Kiersten A; botany & plant pathology, from Monsanto Company, \$7,000, “P. Sojae Race Survey Protocol-Service Order No 27.”

Wu, Yue; chemical engineering, from DuPont, E.I. Denemours and Company, \$25,000, “DuPont — Young Professor Award.”

Xin, Yan Ping and Si, Luo; educational studies, computer science, from National Science Foundation, \$581,664, “R & D: Nurturing Multiplicative Reasoning in Students with Learning Disabilities in a Computerized Conceptual-Modeling Environment; Amendment 4.”

Xiu, Dongbin; mathematics, from U.S. Department of Energy, \$162,474, “Advanced Dynamically Adaptive Algorithms for Stochastic Simulations on Extreme Scales; Modification 2 for Grant 104857.”

Yang, Won Sik; nuclear engineering, from Battelle Energy Alliance LLC, \$450,000, “Stationary Liquid Fuel Fast Reactor (SLFFR) Concept for Transuranic (TRU) Burning.”

Yernool, Dinesh A; biological sciences, from PHS-NIH National Institute of General Medical Science, \$288,309, “Structure and Function of Sodium-Calcium Exchangers.”

Yoder, Ryan M; psychology — Fort Wayne campus, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$403,431, “Otolith-Dependent Cognition in Mice.”

Youngblood, Jeffrey P; Martinez, Carlos J and Sun, Chin-Teh; materials engineering, aeronautical & astronautical engineering, from Defense Threat Reduction Agency, \$72,937, “Development of Acoustic Metamaterials with Anisotropic Mass Densities for Blast Wave Mitigation.”

Yuan, Chongli; chemical engineering, from Purdue Research Foundation: Office of the Vice President for Research (OVPR), \$17,287, “Effect of DNA Methylation on Chromosome Structure and Gene Activity.”

Zheng, Wei; foods & nutrition, from Ross Graduate Fellowship-Assistantship, \$18,394, “Lee, Jinyoung.”

Zhou, Chenn Q; Center for Innovation thru Visualization & Simulation, from NiSource Corporate Services Company, \$26,058, “Northern Indiana Public Service Company (NIPSCO) Unit 8 Decomposition Chamber Flow Study.”

Zhou, Chenn Q; Center for Innovation thru Visualization & Simulation, from Avstar LLC, \$31,168, “Computational Fluid Dynamics (CFD) Evaluation of Wind Turbine Designs.”

Zhu, Jian-Kang; biochemistry, from PHS-NIH National Institute of General Medical Science, \$339,570, “DNA Demethylation and Transcriptional Gene Silencing.”

Ziaie, Babak; electrical & computer engineering, from National Science Foundation, \$120,000, “Laser Treated Hydrophobic Paper: An Inexpensive Microsystem Platform; Amendment 1 for Grant 105368.” (a Discovery Park award — Birck Nanotechnology Center)

Zinsmeister, William J; earth & atmospheric sciences, from Paul P. & Linda L. Krishna (Individual Donor), \$350, “Zinsmeister Research.”

Zinsmeister, William J; earth & atmospheric sciences, from Paul P. & Linda L. Krishna (Individual Donor), \$750, “Zinsmeister Research.” ■

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