DIMENSIONS of DISCOVERY

Sponsored Program Awards

February 2015

Abrahamson, Kathleen A and Kirkpatrick, Jane M; nursing, from University of Minnesota, \$102,538, "Home and Community Based Services Performance-Based Incentive Payment Program."

Adeola, Olayiwola; animal sciences, from DSM Nutritional Products, Inc., \$20,000, "DSM."

Adeola, Olayiwola; animal sciences, from Biomatrix Inc, \$5,750, "Danisco."

Adeola, Olayiwola; animal sciences, from Biomatrix Inc, \$15,000, "Danisco."

Ajuwon, Kolapo; animal sciences, from AB Agri Ltd, \$50,000, "Swine Research."

Ajuwon, Kolapo; animal sciences, from DSM Nutritional Products, Inc., \$50,000, "Swine Research."

Anderson, Joseph M; agronomy, from Otterbein Elementary School, \$25, "Indiana Arborists Association, Inc.."

Anderson, William E; aeronautical & astronautical engineering, from Siemens Corporate Research Inc., \$50,000, "Combustion Dynamics Behavior of Fuel Emulsions."

Bagchi, Saurabh; electrical & computer engineering, from Lawrence Livermore National Laboratory, \$64,075, "Debugging and Failure Root-Cause Analysis Techniques for Heterogeneous Computing."

Bahr, David F; materials engineering, from IBC Materials and Technology Inc, \$36,000, "Nanoindentation Assessment of Localized Property Changes Due to Novel Surface Treatments of Steels."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$18,191, "Wood, Paul."

Baributsa, Dieudonne and **Alexander, Corinne** E; entomology, agricultural economics, from Catholic Relief Services, \$93,588, "Purdue Improved Crop Storage (PICS) Bags to Improve Seed and Grain Storage in Sierra Leone."

Bartlett, Edward L; biomedical engineering, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$365,550, "Measurement and Modeling of Central Auditory Processing in Aged Animals."

Beaulieu, Lionel J; Track Express — Center for Regional Development, from Economic Research Service, \$250,000, "The Research Innovation and Development Grants in Economics (RIDGE) Center for Rural Studies: Exploring the Food Assistance & Nutrition Challenge of People, Households & Communities in Rural America."

Beaulieu, Lionel J; Office of Engagement, from Mississippi State University, \$126,900, "Stronger Economies Together - USDA RD Cooperative Agreement No. RBS-14-23."

Bermel, Peter A; electrical & computer engineering, from National Science Foundation, \$500,000, "Faculty Early Career Development (CAREER): Thermophotonics for Efficient Harvesting of Waste Heat as Energy." (a Discovery Park award — Birck Nanotechnology Center)

Blanton, Richard E and **Fargher, Lane** F; anthropology, from National Science Foundation, \$229,630, "Tlaxcallan Archaeological Project: Households, Terraces, and Governance in a Late Postclassic City."

Blendell, John E; materials engineering, from National Institute of Standards & Technology, \$20,000, "Interfaces, Stresses, and Stability: Learning from John W. Cahn."

Bowling, Laura C and Cherkauer, Keith A; agronomy, agricultural & biological engineering, from University Corp for Atmospheric Research, \$48,000, "Improving Operational Flood Forecasts in the US Northern Plains Region through Assimilation of Ponded Water Retrievals."

Brunswicker, Sabine; industrial technology, from Red Hat, \$25,000, "Red Hat Doctoral Appointment."

Bullock, Darcy M; civil engineering, from Federal Aviation Administration, \$45,000, "Phase II: Installation of Thermoplastic Rumble Strips at Purdue University Airport (Lafayette)."

Cai, Liping A; hospitality & tourism, from Qinlan Chen, \$900, "China Research Programs."

Caldwell, Barrett S; industrial engineering, from Purdue Calumet, \$1,000, "Indiana Space Grant Consortium (INSGC) Affiliate Dues."

Caldwell, Barrett S; industrial engineering, from Indiana University, \$1,000, "Indiana Space Grant Consortium (INSGC) Affiliate Dues."

Camberato, James J and Nielsen, Robert L; agronomy, from Pioneer Hi-Bred International, Inc., \$58,092, "Performance and Refinement of Nitrogen Fertilization Tools; Supplement 2."

Cappelleri, David J; mechanical engineering, from National Science Foundation, \$114,470, "Faculty Early Career Development (CAREER): Novel Wireless, Micro-Force Sensing Mobile Microrobots for Mechanobiology and Automated Biomanipulation."

Chapman, Robert N and Carlson, Donald E; forestry & natural resources, from Mary S. Rice Farm Estate, \$7,500, "Acquisition of a Native Grass Drill for a Study Evaluating Native Grass and Wildflower Plantings in Agricultural Landscapes for Wildlife and Pollinators."

Chen, Qingyan; mechanical engineering, from Northeastern University, \$60,000, "Optimization of Explosives Sensor Placement at Airports."



Chen, Weinong W; Tsutsui, Waterloo and Siegmund, Thomas H; aeronautical & astronautical engineering, mechanical engineering, from U.S. Department of Energy, \$300,000, "Crash Safety of Lithium-Ion Batteries."

Chen, Weinong W; aeronautical & astronautical engineering, from Office of Naval Research, \$95,000, "Fundamental Dynamic Contact Failure Mechanisms in Granular Materials."

Cheng, Ji-Xin; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$40,000, "Raman Laser Purchase and Build."

Clase, Kari Land Byrn, Stephen R; industrial technology, industrial & physical pharmacy, from Roche Diagnostics, \$100,000, "Biotechnology Innovation and Regulatory Science Graduate Curriculum Development."

Coddington, Jennifer A; Aaltonen, Pamela M and Kirkpatrick, Jane M; nursing, from Indiana University Health Arnett, \$15,670, "IU Health Faculty Practice Partnership, Amendment 2."

Coddington, Jennifer A; Aaltonen, Pamela M and Kirkpatrick, Jane M; nursing, from Indiana University Health Arnett, \$48,311, "IU Health Faculty Practice Partnership, Amendment 3."

Connor, Robert J; civil engineering, from American Institute of Steel Construction,Inc., \$20,000, "AISC Voluntary Support."

Cox, Robert F; technology — administration, from Hochschild Plaut Navarro Trust, \$1,373,730, "Collaborative Partnership with Universidad de Ingenieria & Technologia (UTEC)."

Delp, Edward J; electrical & computer engineering, from Steven M & Martha C Lee, \$519, "Multi-Sponsor."

Ebert, David S; Butzke, Christian E and Owens, Phillip R; electrical & computer engineering, food science, agronomy, from Trask Trust Fund, \$40,000, "Vinsense: Developing Effective Moisture Management and Perennial Crop Sustainability Decision Support Technology and Practices Under Changing Climate and Drought Conditions." (a Discovery Park award — Discovery Park administration)

Eisenhauer, Mary Jane; education — North Central campus, from Project Learning Tree, \$1,000, "Children's Garden at the Westville Little School."

Engel, Bernard A; agricultural & biological engineering, from Republic Turkey Food Ministry, \$5,943, "Bench Fees; Zafer Saban Tunca."

Ericson, Karen L; chemistry — Fort Wayne campus, from Wyle Laboratories, \$8,245, "Pyridoxic Acid Analysis PO T71686 Change Order 15."

Farkas, Brian E; food science, from Archer Daniels Midland Co, \$7,000, "Food Science Research."

Farkas, Brian E; food science, from E & J Gallo Winery, \$1,500, "Food Science Research."

Farkas, Brian E; food science, from Kikkoman Marketing and Planning, \$1,500, "Food Science Research."

Federer, Natalie L; field extension educators, from Fulton County (Rural Electric Membership Corp) REMC Operation Roundup, \$1,000, "Lego Robotics."

Fernandez-Juricic, Esteban; biological sciences, from Animal Plant Health Inspection Service, \$12,844, "Novel Applications of Avian Sensory Ecology to Reduce the Negative Impacts of Pest Birds to Agricultural Crop Production."

Ferruzzi, Mario; food science, from Agricultural Research Service, \$133,178, "Adaptation in Polyphenol Bioavailability and Anti-Inflammatory Activity During Long Term Exposure to Polyphenol-Rich Fruits and Beverages in Lean and Obese Individuals."

Filley, Timothy R; earth & atmospheric sciences, from University of Illinois at Champaign-Urbana, \$97,604, "Critical Zone Observatory for Intensively Managed Landscapes (IML-CZO),"

Fisher, Timothy and Xu, Xianfan; mechanical engineering, from Office of Naval Research, \$161,956, "Cross-Interface Coupling of Electrons and Phonons." (a Discovery Park award — Birck Nanotechnology Center)

Frankenberger, Jane R; agricultural & biological engineering, from University of Michigan, \$50,000, "On-Farm Water Recycling as an Adaptation Strategy for Drained Agricultural Land in the Western Lake Erie Basin."

Frankenberger, Jane R and Prokopy, Linda S; agricultural & biological engineering, forestry & natural resources, from Indiana Department of Environmental Management, \$26,843, "Continuing to Strengthen Watershed Leadership and Address Nonpoint Source Pollution in Indiana in 2015."

French, Richard M; Visser, Steve C; Zhang, Haiyan H and Shade, Steven A; engineering technology, visual & performing arts, aeronautical & astronautical engineering, from Braunability, \$206,313, "Braunability—Project Queensland."

Frosch, Robert J; civil engineering, from University of Alabama, \$17,747, "Support for Graduate Student Yuxing Yang from University of Alabama."

Garimella, Suresh V; Janes, David B; Peroulis, Dimitrios and Weibel, Justin A; mechanical engineering, electrical & computer engineering, from Defense Advanced Research Projects Agency, \$546,733, "Microcooling for Intensely Concentrated Electronics (MicroICE) an Intrachip Approach."

Garimella, Suresh V; mechanical engineering, from Aavid Thermalloy, \$7,500, "Cooling Technologies Research Center (CTRC) 2012-2013 Membership — Memo Match for 106029."

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$147,541, "Signals of Opportunity Airborne Demonstrator (SoOp-AD)."

Garrison, James L; aeronautical & astronautical engineering, from University of Michigan, \$34,700, "Cyclone Global Navigation Satellite System (CYGNSS); Amendment 6, Grant 106499."

Gaskill, Brianna N; comparative pathobiology, from Johns Hopkins University Center for Alternatives to Animal Testing, \$5,824, "Influence of Husbandry Parameters on Sleep in Laboratory Mice."

Gelvin, Stanton B; biological sciences, from Edison Agrosciences Inc, \$134,994, "Improving the Quality and Quantity of Agrobacterium-Mediated Plant Transformation Events."

Ghosh, Arun K; medicinal chemistry & molecular pharmacology, from Japan Science Foundation, \$143,534, "Design and Synthesis of Small-Molecule CCR5 Antagonists."

Ghosh, Arun K; medicinal chemistry & molecular pharmacology, from National Center Global Health Medicine, \$193,779, "Development of Novel Non-Protease Inhibitor Central Nervous System Targeting Anti-HIV Agent."

Ghosh, Arun K; medicinal chemistry & molecular pharmacology, from Science, Technology, Engineering & Mathematics (STEM) CentRX, \$1,000,000, "Science, Technology, Engineering & Mathematics (STEM) CentRX."

Gibson, Kevin D; Benjamin, Tamara J; Ballard, Roy W; Field, William E; Ma, Zhao and O'Donnell, Michael J; botany & plant pathology, field extension educators, agricultural & biological engineering, forestry & natural resources, from National Institute of Food & Agriculture, \$681,405, "Infrastructure, Access, and Community: A Plan to Support Beginning Farmers in Indiana."

Gkritza, Konstantina and Fricker, Jon D; civil engineering, from Indiana Department of Transportation, \$119,867, "Economic Development Impact of Corridor Improvements-SHRP2 Tools for Assessing the Wider Economic Benefits of Transportation (C11) Implementation Assistance-SPR 3912."

Goldsbrough, Peter B; botany & plant pathology, from The Morton Arboretum, \$50, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from Ronald L Gamble, \$30, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from Tallgrass Restoration LLC, \$150, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from Richard or Sarah C Solano, \$30, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from David J Schimpf, \$30, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from Liz Copeland, \$30, "Katherine Howe Gift Fund."

Goldsbrough, Peter B; botany & plant pathology, from Southeastern Wisconsin Invasive Species Consort, \$50, "Katherine Howe Gift Fund."

Goldsbrough, Peter B; botany & plant pathology, from Vazques Molecular Dynamics (MD), Emilo J or Deanna H, \$50, "Katherine Howe Gift Fund."

Goldsbrough, Peter B; botany & plant pathology, from Dave & Teena Ligman, \$30, "Katherine Howe Gift Fund."

Goldsbrough, **Peter B**; botany & plant pathology, from Laurie J Yahr or Rich Kahl, \$30, "Katherine Howe Gift Fund."

Grant, Richard H; agronomy, from Lake Michigan Air Directors Consort, \$3,116, "Mercury Deposition Measurements at Vincennes Indiana."

Groll, Eckhard A; mechanical engineering, from Regal Beloit Manufacturing Corp, \$20,000, "Multi-Sponsor Groll."

Guzey, Siddika; curriculum & instruction, from University of Minnesota, \$18,519, "iNeuron: A Contemporary Platform for Neuroscience Education."

Halum, Stacey L; speech, language and hearing sciences, from National Institutes of Health, \$161,721, "Neurotrophin-Secreting Muscle Stem Cell Therapy for Laryngeal Paralysis."

Hamaker, Bruce R; food science, from General Mills, Inc., \$100,000, "Human Clinical Satiety Study Screening for Carbohydrate Sources/Approaches with Potential to Elicit a Satiety Response-> Insight into Cho Structure & Digestion Rate."

Han, Qingyou; school of engineering technology, from Wuhan Zhijacheng Education Consulting, \$10,000, "Center for Materials Processing Research (CMPR)."

Handa, Avtar K; horticulture & landscape architecture, from University of California — Davis, \$46,344, "Training Mater of Science Student Under the USAID-Funded Initiative Called Agriculture Innovation Program for Pakistan."

Handwerker, Carol A; Zhao, Fu; Iyer, Ananth V and Sutherland, John W; materials engineering, mechanical engineering, department of management, environmental & ecological engineering, from Ames Laboratory, \$342,000, "Research Subcontract No. SC-13-393, Modification 2."

Hastak, Makarand; construction engineering & management, from Indiana Department of Transportation, \$14,777, "Enhanced Treatment Selection for Reflective Joint Cracking in Composite Pavements Phase II-SPR 3626."

Hastak, Makarand; construction engineering & management, from Indiana Department of Transportation, \$100,000, "Quantifying the Benefit of Bonus/Deduct Factors on Asphalt Pavement Life."

Hastak, Makarand; construction engineering & management, from Indiana Department of Transportation, \$37,506, "Performance Evaluation of Crack Sealing and Filling Materials with Pavement Preservation Treatments SPR-3533."

Heber, Albert J; agricultural & biological engineering, from Rose Acre Farms, \$2,000, "Agricultural Engineering."

Heeg, Marlene O; pharmacy — administration, from NPS Pharmaceuticals, \$126,398, "Optimizing Evidence-Based Strategies

for the Management of Intestinal Rehabilitation in Patients with Short Bowel Syndrome."

Heeg, Marlene O; pharmacy — administration, from Abbvie Inc, \$125,000, "Exocrine Pancreatic Insufficiency Management in Cystic Fibrosis: Clinical Insights on Optimal Pancreatic Enzyme Replacement Therapy."

Heeg, Marlene O; pharmacy — administration, from Sanofi-Aventis, \$363,648, "Addressing Postprandial Glucose Excursions in Type 2 Diabetes with Inhaled Insulin."

Hertel, Thomas W; agricultural economics, from International Food Policy Research Institute, \$19,650, "Global Trade Analysis Project (GTAP) Consortium."

Hertel, Thomas W; agricultural economics, from University of Chicago, \$143,016, "Center for Robust Decision-Making Tools for Climate and Energy Policy Project; Amendment 4, Grant 104913."

Hertig, John B and Degnan, Daniel D; pharmacy — administration, from Smart Pharma LLC, \$17,875, "Drug Reformation Evaluation Project."

Hertig, John B; pharmacy — administration, from Becton Dickinson, \$29,500, "Center for Medication Safety Advancement."

Hogan, Daniel F; veterinary clinical science, from Boehringer Ingelheim Vetmedica Inc, \$37,088, "Cardiology Resident."

Hogenesch, Harm; comparative pathobiology, from Vaxform, LLC, \$140,468, "Development of a Recombinant Vaccine Against Streptococcus Pyogenes Infection and Disease Year 2 Funding."

Hollenbeck, **Peter J**; biological sciences, from Purdue University, \$58,238, "Bridge Funding — EVPRP, Peter Hollenbeck."

Huang, Libai; chemistry, from University of Notre Dame, \$68,000, "EFRI 2-Dare Monolayer Heterostructures: Epitaxy to Beyond-CMOS Devices."

Hutzel, William J; engineering technology , from Midwest Renewable Energy Association, \$100,000, "Purdue Solar Endowment."

Hynes, Morgan M; engineering education, from National Science Foundation, \$505,375, "Faculty Early Career Development (CAREER): Broadening Contexts to Broaden Participation in Engineering."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$40,419, "Task 1: Interfacial Area Transport in a 1-Inch Pipe."

Ivantysynova, Monika; Lumkes, John H and Vacca, Andrea; agriculture — administration, agricultural & biological engineering, from University of Minnesota, \$87,165, "Engineering Research Center (ERC) for Compact and Efficient Fluid Power." (a Discovery Park award — Energy Center)

Ivantysynova, Monika; agricultural & biological engineering, from Bobcat Company, \$91,450, "Noise Measurements and Valve Plate Design to Reduce Noise and Maintain Control Effort for M44 Tandem Pumps."

Janick, Jules; horticulture & landscape architecture, from Lillian Goldman Charitable Trust, \$10,000, "Art in Horticulture."

Jiang, Yiwei; agronomy, from Mary S. Rice Farm Estate, \$6,000, "Evaluation of Flowering Time in Switchgrass and Perennial Ryegrass."

Johnson, Mark C; Wild, Todd A; Krogmeier, James V and Swabey, Matthew A; electrical & computer engineering, from Harris Corporation, \$50,000, "Pipeline Integrity Monitor Undergraduate Project."

Johnson, William G; botany & plant pathology, from BASF Corp, Chemicals Division, \$15,000, "Weed Science Research Voluntary Support."

Johnson, William G and Young, Bryan G; botany & plant pathology, from University of Arkansas, \$102,724, "Management Solutions for Glyphosate-Resistant Pigweeds in Soybean Production Systems."

Johnson, William G; botany & plant pathology, from BASF Corporation, \$13,248, "Testing Agreement."

Johnston, Cliff T; agronomy, from Pioneer Oil Company, \$17,250, "Funding of Initial EOR Lab Operational Costs." (a Discovery Park award — Bindley Bioscience Center)

Jones, Timothy M; physics, from Fermi National Accelerator Laboratory, \$32,000, "U.S. Compact Muon Solenoid (CMS) Operations at Large Hadron Collider (LHC) (Upgrade-FPIX)."

Jung, Byunghoo; electrical & computer engineering, from AccuPS LLC, \$89,369, "STTR Phase 1: 3-D Position Sensing

Utilizing Wireless Low Frequency Magnetic Beacon and its Application to a 3-D Man-Machine Interaction Device."

Kaplan, Ian; Foster, Ricky E; Ingwell, Laura L and Linder, Nathan L; entomology, Throckmorton-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$7,125, "Rotary Plow and Other Accessories for the BCS Tractor to Facilitate Research in High Tunnels."

Key, Nicole L; mechanical engineering, from Honeywell Inc., \$100,000, "Honeywell Aerospace Voluntary Support."

Kilaz, Gozdem; Gore, Jay P; Lucht, Robert P and Qiao, Li; mechanical engineering, aeronautical & astronautical engineering, from Federal Aviation Administration, \$199,548, "Project #13 — Alternative Aviation Fuels Fire Safety."

Kim, Tae-Hoon; computer information technology — Calumet campus, from ArcelorMittal USA, \$9,950, "Design and Deployment of the Secure Web-Based Application."

Kirkpatrick, Jane M; nursing, from PHS-HRSA National Center for Health Services Research, \$245,550, "North Central Nursing Clinics (NCNC)."

Kirkpatrick, Jane M; nursing, from Greater Lafayette Community Foundation, \$4,000, "Continuing Education Workshops for Nurses Who Work with Cancer."

Kokini, Klod; mechanical engineering, from WEPAN, \$87,253, "Transforming Engineering Culture to Advance Inclusion and Diversity (TECAID)."

Krane, Matthew J; materials engineering, from Novelis Corporation, \$50,000, "Novelis Corporation."

Kuang, Shihuan and Gavin, Timothy P; animal sciences, health & kinesiology, from Purdue University, \$30,000, "14-15 Laboratory & University Core Facility Research Equipment Program."

Kulatunga, N A; electrical & computer engineering technology, from Federal Aviation Administration, \$5,000, "Project #10—LED Taxiway Lighting System Testing and Monitoring."

Ladisch, Michael R; Mosier, Nathan S and Ximenes, Eduardo A; agricultural & biological engineering, from Enchi (Mascoma) Corporation, \$67,436, "Demonstration of Integrated Biorefinery Application Mas10bi05."

Leuck, Jon D; Carlson, Donald E; Hoverman, Jason T and Williams, Rod N; Pinney-Purdue Agricultural Center, forestry & natural resources, from Mary S. Rice Farm Estate, \$5,000, "Wetland and Wildlife Project Expansion."

Liceaga, Andrea M; food science, from Pierre, \$3,000, "Multi-Sponsored Gift-Sensory."

Liceaga, Andrea M; food science, from Mark A Sloneker, \$6,000, "Multi-Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Talking Rain Beverage Company, \$3,000, "Multi-Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Multi-Sponsored Industrials, \$3,000, "Multi-Sponsored Gift- Sensory."

Lin, Xiaojun; electrical & computer engineering, from National Science Foundation, \$96,666, "WiFiUS: Collaborative Research: Data-Guided Resource Management for Dense Heterogenous Networks."

Liu, Wanqing; medicinal chemistry & molecular pharmacology, from Indiana University, \$25,000, "Role of FADS1 in Human Hepatic Fat Accumulation."

Lucht, Robert P and Slabaugh, Carson D; mechanical engineering, from GE Aviation, \$200,000, "High Pressure TAPS Flame Visualization (Partial Rig Fabrication A)."

Lucht, Robert P and Slabaugh, Carson D; mechanical engineering, from GE Aviation, \$200,000, "High Pressure TAPS Flame Visualization (Partial Rig Fabrication B)."

Lucier, Bradley J; Ben-Amotz, Dor and Buzzard, Gregery T; mathematics, chemistry, from Office of Naval Research, \$49,508, "Digital Compressive Detection Spectroscopy: Theoretical Optimization and Experimental Implementation."

Lundstrom, Mark S; Agrawal, Rakesh; Alam, Muhammad A; Garimella, Suresh V and Sharma, Pankaj; engineering administration engineering experiment, chemical engineering, electrical & computer engineering, mechanical engineering, from National Renewable Energy Laboratory, \$255,000, "Solar Energy Research Institute for India and the United States (SERIIUS); Modification 3." (a Discovery Park award — Energy Center)

Lynall, Matthew D; management, from Daimler Trucks North America LLC, \$3,026, "Krannerts Experiential Learning Initiative (ELI)."

Lynall, Matthew D; management, from Bandidos Inc, \$2,569, "Krannerts Experiential Learning Initiative (ELI)."

Lynall, Matthew D; Deason, Gregory W; Duval-Couetil, Nathalie A; Panitch, Alyssa and Seipel, Justin E; management, HR default cost center, industrial technology, biomedical engineering, mechanical engineering, from National Science Foundation, \$98,202, "Innovation Corps Sites Program."

Ma, Zhao; Bauchet, Jonathan J; Gramig, Benjamin M and Zanotti, Laura C; forestry & natural resources, consumer science & retail, agricultural economics, anthropology, from Purdue University, \$17,670, "Can Payment for Ecosystem Services (PES) Be Unconditional?" (a Discovery Park award — Center for the Environment)

MacDermid Wadsworth, Shelley and Topp, Dave; child development & family studies, from Michigan State University, \$10,657, "Star Behavioral Health Provider Initiative."

Malis, Oana; Chen, Yong P; Pushkar, Yulia N and Savikhin, Sergei F; physics, from Purdue University, \$96,240, "14-15 Laboratory & University Core Facility Research Equipment Program."

Manfra, Michael J; physics, from Office of Naval Research, \$71,304, "Fault-Tolerant Topological Quantum Computing with 2d Electron Systems." (a Discovery Park award — Birck Nanotechnology Center)

Manfra, Michael J; electrical & computer engineering, from Microsoft Corporation, \$590,000, "Materials for Topological Quantum Computing."

Mansfield, Charles W; Egel, Daniel S; Nowaskie, Dennis H; Shelton, Brad W and Tower, Jason E; agronomy, botany & plant pathology, Southwest-Purdue Agricultural Center, Feldun-Purdue Agricultural Center, Fouthern Indiana-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$8,405, "Complimentary Equipment Acquisition for Southwest Purdue Agricultural Center."

Marion Suiseeya, Kimberly R and Bauchet, Jonathan J; political science, consumer science & retailing, from Purdue University, \$12,620, "Designing Just Institutions for Effective Forest Conservation Governance."

Martinez, Kimber J; youth development & agricultural education, from Indiana State Department of Health, \$17,086, "MESA: Multicultural Efforts to End Sexual Assault."

Maynard, Elizabeth T; horticulture & landscape architecture, from Mary S. Rice Farm Estate, \$5,000, "Environmental Monitoring to Improve Winter Protected Vegetable Production."

McKee, Renee K; field extension administration 4-H cost center, from National 4-H Council, \$123,000, "4-H National Mentoring Program (4-H NMP 5)."

McNamara, Kevin T; agricultural economics, from University of California — Davis, \$892,497, "Afghanistan Agricultural Extension Project-II."

Messick, Joanne B; comparative pathobiology, from Morris Animal Foundation, \$113,692, "Morris Animal Foundation Veterinary Fellowship for Advanced Study."

Meyer, Scott E and Anderson, William E; mechanical engineering, aeronautical & astronautical engineering, from Space Exploration Technologies Corp, \$92,739, "Single Element Testing for SpaceX."

Michler, Charles H; forestry & natural resources, from North Carolina State University, \$46,200, "Center for Tree Genetics-NCSU."

Monroe, James S; field extension educators, from Indiana Vegetable Growers Association, \$1,000, "Certification of a GAPs Trainer for Delivery of Produce Food Safety Training."

Neary, Michael; Tower, Jason E and Camp, Joseph W; animal sciences, Southern Indiana-Purdue Agricultural Center, comparative pathobiology, from Mary S. Rice Farm Estate, \$1,285, "Sire Effect on Resistance to Gastrointestinal Nematode Infection in Meat Goats."

Niser, John C; consumer & family sciences — Fort Wayne campus, from University of Stavanger, \$5,000, "HSD Consortium."

Niyogi, Devdutta S; Biehle, Donald J and Scheeringa, Kenneth L; agronomy, Southeast-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$15,000, "Maintenance and Improvement of Purdue Agricultural Centers Weather Station Network — 2015."

Niyogi, Devdutta S; Biehle, Donald J and Scheeringa, Kenneth L; agronomy, Southeast-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$9,974, "Expansion of Purdue Agricultural Centers Weather Station Network — 2015."

Panchal, Jitesh H and Ramani, Karthik; mechanical engineering, from National Science Foundation, \$75,000, "CPS: Synergy: Foundations of Cyber-Physical Infrastructure for Creative Design and Making of Cyber-Physical Products."

Peroulis, Dimitrios; electrical & computer engineering, from Indiana Microelectronics LLC, \$123,750, "High-Q X-Band Tunable Bandstop Radio Frequency (RF) Microelectromechanical System (MEMS) Filters; Amendment No. 1."

Peterson, Jonathon R and **Baudoin, Fabrice**; mathematics, from National Science Foundation, \$15,000, "Conference in Stochastic Analysis and Related Topics."

Petri, Gustavo and Jagannathan, Suresh; computer science, from Air Force Research Laboratory, \$100,000, "Verified Compilation of Concurrent Managed Languages; Modification 5 for Grant 106652."

Pipes, R Byron; materials engineering, from Cytec Industries Inc, \$50,000, "CDM HUB (Consortium)."

Pipes, R Byron; aeronautical & astronautical engineering, from The Boeing Company, \$435,000, "Certification and NDE of Short Fiber Composite Materials and Structures for 2012-001-5."

Post, Carol B; medicinal chemistry & molecular pharmacology, from the Protein Society, \$500, "The Hitchhikers Guide to the Protein Galaxy — a Purdue Mini-Symposium on Integrating Structure, Function, and Interactions of the Protein Universe."

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Ultramet, \$4,793, "Thermal Conductivity Measurements of Thermal Greases."

Raman, Arvind; engineering administration engineering experiment, from Colfuturo, \$49,731, "Latin American Technical, Research and Administration Leaders Program (LATERAL)."

Rhoads, Jeffrey F; Bolton, J S and Davies, Patricia; mechanical engineering, from North Carolina State University, \$85,662, "Semiwave Multidisciplinary University Research Initiative (MURI): Sound and Electromagnetic Interacting Waves."

Richert, Brian T; animal sciences, from Zinpro Corporation, \$10,000, "Swine Research."

Rickus, Jenna L; agricultural & biological engineering, from National Aeronautics and Space Administration, \$68,060, "SporeSat." (a Discovery Park award — Birck Nanotechnology Center)

Riley, Christopher W; diversity and multicultural affairs — Fort Wayne campus, from Health Visions of Ft. Wayne, \$5,000, "Indiana University-Purdue University Fort Wayne (IPFW) DENR Healthcare Experience."

Rokhinson, Leonid P and Lyanda-Geller, Yuli; physics, from Office of Naval Research, \$160,000, "Parafermion-Supporting Platform for Topological Quantum Information Processing."

Sacks, Elisha P; computer science, from Intel Corporation, \$60,000, "Robust Solid Modeling for Process Modeling Applications."

Sadeghi, Farshid; mechanical engineering, from Cummins Business Services, \$85,000, "Tribology Lab Research."

Salgado, **Rodrigo**; civil engineering, from American Society of Civil Engineers, \$5,000, "American Society of Civil Engineers."

Salgado, Rodrigo; civil engineering, from Fugro Consultants LP, \$20,000, "Coffee."

Sangid, Michael D; aeronautical & astronautical engineering, from Northrop Corporation (Grumman), \$50,000, "Probability Theory & Probabilistic Design Sciences."

Savikhin, Sergei F; physics, from National Science Foundation, \$114,252, "Research Experience for Undergraduates (REU) Site: Multidisciplinary Physics at Purdue University."

Scharf, Michael E; entomology, from Robert or Karen Tarver, \$2,500, "Multi-Sponsor."

Schneider, Steven P; aeronautical & astronautical engineering, from Lockheed Martin Corp., \$9,123, "Additional Measurements on the Lockheed-Martin HCV in the Mach-6 Quiet Tunnel."

Schoenlein, William E; biomedical engineering, from Medicine Institute, Incorporated, \$53,083, "Pre-Clinical Device Testing Agreement."

Schoonmaker, Jon; animal sciences, from Ajinomoto Heartland LLC, \$50,000, "DSM Nutritional Products, Inc."

Schutz, Michael M and Ballard, Roy W; agriculture — administration, field extension educators, from University of Minnesota, \$100,000, "2015 Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP)."

Schwichtenberg, Amy J; child development & family studies, from PHS-NIH National Institute of Mental Health, \$240,004, "Self-Regulation and Sleep in Children at Risk for Autism Spectrum Disorders."

Scott-Moncrieff, Joanna C; veterinary clinical science, from VCA Antech Inc, \$9,985, "Radiology Residency Support."

Shalaev, Vladimir M and Boltasseva, Alexandra; electrical & computer engineering, from Georgia State University, \$82,432, "Random Lasers, Nano-Spasers and Optical Rogue Waves." (a Discovery Park award — Birck Nanotechnology Center)

Shalaev, Vladimir M and Boltasseva, Alexandra; electrical & computer engineering, from Stanford University, \$50,000, "Integrated Hybrid Nanophotonic Circuits; Amendment 6." (a Discovery Park award — Birck Nanotechnology Center)

Sheehan, Amy H; pharmacy practice, from PHS-FDA Food and Drug Administration, \$35,000, "Joint FDA/Industry/Academia Regulatory Pharmaceutical Fellowship for Drug Evaluation and Research-FDA Portion; Katelyn Brown."

Shi, Riyi and Smith, Daniel T; basic medical science, industrial & physical pharmacy, from PHS-NIH National Institute Neurological Disorders and Stroke, \$390,305, "Role of Acrolein in Spinal Cord Injury."

Shields, Cleveland G; child development & family studies, from PHS-NIH National Cancer Institute, \$484,159, "Social and Behavioral Influences on Clinical Communication and Pain Management."

Shields, Cleveland G; child development & family studies, from PHS-NIH National Cancer Institute, \$4,891, "Social and Behavioral Influences on Clinical Communication and Pain Management."

Siegmund, Thomas H; mechanical engineering, from National Science Foundation, \$12,873, "Intergovernmental Personnel Assignment (IPA) Assignment for Thomas Siegmund-Extension."

Siegmund, Thomas H; mechanical engineering, from National Science Foundation, \$1, "Intergovernmental Personnel Assignment (IPA) Assignment for Thomas Siegmund."

Singh, Manpreet; food science, from Auburn University, \$53,812, "Identifying Gaps Between Knowledge and Practice in Production and Distribution of Local and Regional Foods for a More Secure Food Supply Chain."

Smith, Anne; Weber-Fox, Christine M; Walsh, Bridget M; Christ, Sharon L and Lynam, Donald R; speech, language & hearing sciences, child development & family studies, psychological science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$592,718, "Physiological Correlates of Stuttering."

Smith, Mjt; graduate school administration, from GS Bridge Assistantships, \$8,344, "Smith, Ronald."

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$18,111, "Browne, Mary Maxine."

Smith, Mjt; graduate school administration, from GS Bridge Assistantships, \$15,240, "Browne, Mary Maxine."

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$11,256, "Smith, Ronald."

Smith, Rachel C; management — marketing, human resources & management — Calumet campus, from Junior Achievement of Chicago, \$12,302, "Bringing Leadership to Middle School Education (Period 2)."

Song, Xiaohui C; academic technologies, from University of Illinois at Champaign-Urbana, \$288,000, "XSEDE: Extreme Science and Engineering Discovery Environment."

Spafford, Eugene H; Raskin, Victor and Dark, Melissa J; Center for Education and Research in Information Assurance and Security (CERIAS), English, from National Science Foundation, \$391,924, "Preparing Cyber Security Leaders."

Stansbury, Betty M; airport operations, from Indiana Department of Transportation, \$16,668, "Strengthen/Rehabilitate Runway 10/28-Phase 1 (Design); Airfield Signage Improvements-Phase 1 (Design); Purchase Snow Removal Equipment (State)."

Sullivan, John P; aeronautical & astronautical engineering, from Brigham Young University, \$9,000, "Development of UAV for First Responder— AerosPACE Multi University, Multi User Capstone Project."

Swihart, Robert K and Carlson, Donald E; forestry & natural resources, from Hardwood Forestry Fund, \$5,110, "Hardwood Forestry Fund Seedling Planting Grant Application."

Taylor, Lynne S; industrial & physical pharmacy, from Anasys Instruments, \$117,612, "AFM Based Nanoscale Ir Spectroscopy (AFM-IR) as a Characterization Platform for Solubility Enhancing Drug Delivery Systems."

Taylor, Lynne S; industrial & physical pharmacy, from Merck Sharp & Dohme Corp, \$70,000, "Study of the Anti-Nucleation Properties and Physicochemical Interactions of Bile Surfactants with Supersaturated Active Pharmaceutical Ingredients."

Thom, James M and Stanley, David L; aviation technology, from Purdue University, \$36,500, "14-15 Laboratory & University Core Facility Research Equipment Program: National Test Facility for Fuels and Propulsion (NATEF) Materials Laboratory Tensile Testing System."

Topp, Elizabeth M; Lill, Markus A; Park, Chiwook and Regnier, Fred E; industrial & physical pharmacy, medicinal chemistry & molecular pharmacology, chemistry, from PHS-NIH National Institute of General Medical Science, \$297,225, "Protein Aggregation in Amorphous Solids."

Trice, Rodney W and Youngblood, Jeffrey P; materials engineering, from US Army Research, Development and Engineering Command (RDECOM), \$71,741, "Fabrication of Complex-Shaped Ceramic Components by Room-Temperature Injection Molding."

Trumble, Kevin P; materials engineering, from Purdue University, \$28,281, "1415 Purdue Research Foundation (PRF): Kevin Trumble."

Tsai, Su-Jung; health sciences, from University of Eastern Finland, \$1,000, "Fungal Culture Analysis."

Ursem, Michael D and Gulich, Michael J; university sustainability, from Keep America Beautiful, Inc., \$24,000, "2014-2015 Bin Grant Award."

Vacca, Andrea; agricultural & biological engineering, from Thomas Magnete GmbH, \$61,638, "Detailed Modeling of Gerotor Units."

Villoria, Nelson B; Niyogi, Devdutta S; Hertel, Thomas W; Zhang, Hao and Preckel, Paul V; agricultural economics, agronomy, statistics, from National Institute of Food & Agriculture, \$499,709, "The Role of International Trade in Adapting US Agriculture to Increased Global Climate Variability."

Vlachos, Pavlos; mechanical engineering, from PHS-NIH National Heart, Lung & Blood Institute, \$184,541, "Assessment of Left Ventricle Function Using Color M-Mode Echocardiography."

Vyn, Tony J and Camberato, James J; agronomy, from Mary S. Rice Farm Estate, \$5,000, "Supplemental Nitrogen Fertigation for Irrigated Corn."

Vyn, Tony J; agronomy, from Pioneer Hi-Bred International, Inc., \$35,000, "Agricultural Cropping Systems."

Weaver, Connie M; foods & nutrition, from Abbott Laboratories, \$6,000, "Corporate Affiliates Fund."

Weaver, Connie M; foods & nutrition, from The Sugar Association, Inc., \$6,000, "Corporate Affiliates Fund."

Weaver, Connie M; foods & nutrition, from Pharmavite, \$6,000, "Corporate Affiliates Fund."

Weaver, Connie M; foods & nutrition, from American Yeast Sales Corp, \$1,667, "Lallemand/American Yeast Gift."

Wendt, Michael K; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$2,436, "Targeting Fibroblast Growth Factor Receptor (FGFR), to Prevent the Outgrowth of Metastatic Breast Cancer."

West, Terry R; earth & atmospheric sciences, from AEG North Central Section, \$100, "AEG Travel."

Whelton, Andrew J; civil engineering, from National Science Foundation, \$185,744, "Towards a Safer and Greener Indoor Environment: Chemical Liberation from Polyethylene Plumbing Pipes."

Whitford, Fred; botany & plant pathology, from DeAngelo Brothers Inc, \$23, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from National Association of State Departments of Agriculture Research Foundation, \$8,100, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Indiana Professional Lawn & Landscape Association, \$600, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Oregon Vegetation Management Association, \$341, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Ohio State University, \$275, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Texas Vegetation Management Association, \$510, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Ohio State University, \$270, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from University of Tennessee, \$740, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Tennessee Vegetation Management Association, \$806, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from National Association of State Departments of Agriculture Research Foundation, \$8,100, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Ohio State University, \$300, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Iowa Turfgrass Institute, \$300, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from South Dakota Agribusiness Association, \$300, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from National Pest Management Association Inc., \$80, "Purdue Pesticide Programs."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$121,212, "Biomimetic Design Principles for Underwater, Sustainable, and Modulus Tailored Adhesives."

Williams, Rod N; forestry & natural resources, from Hoosier Herpetological Society, \$300, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Fort Wayne Children's Zoo, \$2,896, "Voluntary Support."

Wise, Kiersten A; botany & plant pathology, from Greenspire Global Inc, \$2,500, "Wheat Disease Research."

Wise, Kiersten A; botany & plant pathology, from Southern Illinois University, \$20,000, "Seedling Disease of Soybean: Characterization and Education ..."

Wise, Kiersten A; botany & plant pathology, from FMC Corporation, \$15,000, "Wheat Disease Research."

Wise, Kiersten A; botany & plant pathology, from Sipcamadvan, \$4,500, "Wheat Disease Research."

Xie, Jun; statistics, from PHS-NIH National Institute of General Medical Science, \$14,793, "Nonparametric Methods for Clinical Predictive Model in Pharmacogenomics Research."

Xu, Dongyan; Si, Luo and Zhang, Xiangyu; computer science, from Office of Naval Research, \$225,000, "A Tale of Two Systems: Bridging Statistical Learning and Formal Reasoning for Cyber Attack Detection."

Yeo, Yoon; industrial & physical pharmacy, from Purdue University, \$72,870, "14-15 Laboratory & University Core Facility Research Equipment Program — Flow Cytometer for Live Cell Analysis in Drug Delivery Research."

Youngblood, Jeffrey P; materials engineering, from P3 Nano, \$355,672, "Dry-Spun CNC Nanocomposite Fibers — Towards a Sustainable Fiberglass Replacement."

Zhang, Song; mechanical engineering, from National Science Foundation, \$276,669, "Faculty Early Career Development (CAREER): Dense Superfast 3-D Sensing of Extremely Rapidly Changing Mechanical and Biological Scenes."

Zhao, Lan; academic technologies, from University of Utah, \$36,979, "Collaborative Research: Integrated Training for Continental Ecology (ITCE): Bridging Scales and Systems with Isotopes."

Zhou, Chenn Q and Wu, Bin; research & graduate studies, Center for Innovation thru Visualization & Simulation, from ESM Group Inc, \$29,593, "Computational Fluid Dynamics (CFD) Modeling of a Ladle with Rotational Stirring Lances." ■

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