

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

February 2016

**Adeola, Olayiwola**; animal sciences, from BASF Corporation, \$8,400, “BASF Research.”

**Ajuwon, Kolapo**; animal sciences, from AB Agri Limited, \$15,000, “Swine Research.”

**Allebach, Jan P**; electrical & computer engineering, from Georgia Technology, \$37,804, “Achieving the Potential: a Proposal to Expand the Capacity, Reach and Effectiveness of VIP at Purdue; Amendment 2.”

**Allebach, Jan P; Delp, Edward J and Zhu, Fengqing**; electrical & computer engineering, from Hewlett Packard, \$75,000, “Real-Time Object Detection and Recognition.”

**Ambrose, Rose Prabin K**; agricultural & biological engineering, from National Grain & Feed Association, \$26,875, “Compiling and Reporting Information on Agricultural Dust Explosions.”

**Armstrong, Shalamar D**; agronomy, from Mary S. Rice Farm Estate, \$5,000, “Advancing Cover Crop Research with New Inter-cropping Equipment.”

**Bane, Sally P**; aeronautical & astronautical engineering, from Sandia National Laboratories, \$85,000, “Thermodynamic Evaluation of Fuels — Phase II.”

**Barnes, Brittany N and Ackerman, Kristen A**; Dean of Students, from Kappa Delta Foundation, \$5,000, “Respect Initiative.”

**Bayley, William G**; chemistry, from Crawfordsville High School, \$600, “Instrumentation Van Project.”

**Beaudoin, Stephen P**; chemical engineering, from Navy Engineering Logistics Office, \$156,281, “Design and Fabrication of Superior, Mechanically-Robust Polymeric Swabs for Optimized Contact-Based Explosives; Modification 2 for Grant 107202.”

**Beaulieu, Lionel J**; Track Express Center for Regional Development, from Indiana Small Business Development Center, \$16,649, “Southeast Small Business Development Center (SBDC) 2015 – State.”

**Benedicto, Elena E and Morita-Mullaney, Patricia M**; English, curriculum & instruction, from Purdue University, \$15,000, “Heritage Speakers: At the Intersection of Language Development and Maintenance, and Language Ideologies.”

**Bermel, Peter A**; electrical & computer engineering, from NEC Corporation, \$31,284, “Characterization & Filter Design of High-Performance Rare Earth-Based Thermophotovoltaics.” (a Discovery Park award — Birck Nanotechnology Center)

**Bernal, Ximena**; biological sciences, from National Science Foundation, \$127,000, “Sensory Bases and Evolution of Interspecific Eavesdropping.”

**Bi, Zhuming**; engineering — Fort Wayne campus, from National Institute of Standards & Technology, \$10,000, “U.S. Department of Commerce/NIST Intergovernmental Personnel Assignment (IPA) Agreement.”

**Bigelow, Cale A**; horticulture & landscape architecture, from Precision Laboratories Inc., \$4,000, “Putting Greens Research.”

**Bigelow, Cale A**; horticulture & landscape architecture, from Helena Chemical Company, \$6,000, “Putting Greens Research.”

**Cassens, Daniel L**; forestry & natural resources, from Indiana Hardwood Lumbermen Association, \$2,142, “Multi-Sponsored.”

**Casteel, Shaun N and Krupke, Christian H**; agronomy, entomology, from Mary S. Rice Farm Estate, \$10,000, “Harvest System Upgrade for Kincaid 8-XP Combine.”

**Casteel, Shaun N**; agronomy, from Indiana Soybean Alliance, \$19,953, “Management Effects on High-Oleic Soybean.”

**Casteel, Shaun N**; agronomy, from University of Nebraska, \$29,485, “Benchmarking Soybean Production Systems in the North-Central USA.”

**Casteel, Shaun N**; agronomy, from North Central Soybean Research Program, \$19,989, “Improving Soybean Yield in the Double Crop Soybean Production System.”

**Chen, Weinong W**; aeronautical & astronautical engineering, from Department of the Army, \$175,000, “Development of a Predictive Indicator for Fabric Ballistic Performance.”

**Collicott, Steven H**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$89,280, “Advancing Diaphragm Modeling Technology for Propellant Management.”

**Collicott, Steven H**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$104,160, “Low Gravity Flow Boiling on Modern Textured Surfaces, Amendment 2.”

**Collingsworth, Paris D and Salazar, Kara A**; forestry & natural resources, from University of Illinois, \$50,116, “Improving Community Resiliency in the Great Lakes through Applied Research and Extension.”

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

**Connor, Robert J and Lloyd, Jason B**; civil engineering, from National Academy of Sciences, \$100,000, “Maintenance Actions to Address Fatigue Cracking in Steel Bridge Structures.”

**Connor, Robert J**; civil engineering, from National Academy of Sciences, \$488,965, “Acceptance Criteria of Complete Joint Penetration Steel Bridge Welds Evaluated Using Enhanced Ultrasonic Methods.”

**Cooks, Robert G**; chemistry, from Loreal USA, \$167,942, “Mass Spectrometry Methods and Tools for Cosmetic Applications.” (a Discovery Park award — Bindley Bioscience Center)

**Davisson, Vincent J**; medicinal chemistry & molecular pharmacology, from Purdue University, \$9,420, “Nuclear Kinase Targeting in Metastatic Breast Cancers.”

**Davisson, Vincent J**; medicinal chemistry & molecular pharmacology, from Trask Trust Fund, \$20,000, “Application of Raman Sensing Enhancement Technologies.”

**DeLaurentis, Daniel A**; aeronautical & astronautical engineering, from Sandia National Laboratories, \$80,000, “Simulation-Based Optimization in System of Systems.”

**DeLaurentis, Daniel A** and **Woo, Sang Eun**; aeronautical & astronautical engineering, psychological science, from Naval Postgraduate School, \$119,996, “Optimal Selection of Organizational Structuring for Complex System Development and Acquisitions.”

**Deng, Xinyan**; mechanical engineering, from National Science Foundation, \$50,000, “I Corps: Hummingbird Robot.”

**Deshmukh, Abhijit V**; industrial engineering, from GE Global Research Center, \$130,000, “GE — PRIAM Gift.”

**Dietz, James E** and **Pekny, Joseph F**; chemical engineering, from United States Military Academy, \$70,271, “USMA/Purdue Joint Cybersecurity Faculty.” (a Discovery Park award — Discovery Park Administration)

**Downey, Courtney N**; Purdue bands & orchestras, from Tippecanoe Arts Federation, \$4,432, “Director of Alumni, Donor & Public Relations.”

**Dykhuisen, Emily C** and **Wendt, Michael K**; medicinal chemistry & molecular pharmacology, from Purdue University, \$5,000, “The Relationship Between SWI/SNF-Mediated Chromatin Remodeling and Epithelial-Mesenchymal Transition in Breast Cancer.”

**Ebert, David S**; **Butzke, Christian E** and **Owens, Phillip R**; electrical & computer engineering, food science, agronomy, from Vinsense LLC, \$115,020, “STTR:VINES: Visual Information Environment for Effective Agricultural Management and Sustainability.”

**Egel, Daniel S**; **Maynard, Elizabeth T**; **Creswell, Tom C** and **Ruhl, Gail E**; botany & plant pathology, horticulture & landscape architecture, from Indiana State Department of Agriculture, \$67,038, “Management of Bacterial Spot of Tomato Caused by Diverse Strains of *Xanthomonas* spp.”

**Eicher-Miller, Heather A**; foods & nutrition, from International Food Information Council, \$1,400, “Eicher- Miller Gift.”

**Eicher-Miller, Heather A** and **Abbott, Angela R**; foods & nutrition, college of health and human sciences, from South Dakota State University, \$117,496, “Voices for Food.”

**Engel, Bernard A**; agricultural & biological engineering, from Agribile Inc, \$18,750, “Engel Multi-Sponsored Gift.”

**Farkas, Brian E**; food science, from Raw Nature 5 Corporation, \$3,000, “Food Science Research.”

**Fekete, Donna M**; biological sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$41,995, “Development Studies of the Inner Ear.”

**Feld, Scott L** and **Francis, Gregory S**; sociology, psychological science, from Purdue University, \$16,000, “Reducing Bias in Empirical Research by Utilizing Replication to Estimate Extent of Bias Produced by Common Practices in Social and Behavioral Sciences.”

**Felluga, Dino F** and **Visconti, Amanda B**; English, library administration, from Purdue University, \$30,000, “The Cove and Shore.”

**Field, William E**; agricultural & biological engineering, from The Andersons, \$2,160, “Breaking New Ground.”

**Field, William E**; agricultural & biological engineering, from Select Sires Power, \$100, “Breaking New Ground.”

**Field, William E**; agricultural & biological engineering, from CHS Foundation, \$70,000, “CHS Gift.”

**Foster, Ricky E**; **Linder, Nathan L**; **Young, Jay C** and **Bledsoe, Larry W**; entomology, Throckmorton-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$9,847, “Renovation and Reconstruction of an Owned Utility Field Crops Planter to Create a Dedicated Vegetable Planter.”

**Fuchs, Philip L**; chemistry, from John Wiley & Sons Limited England, \$4,000, “E-Encyclopedia of Reagents for Organic Synthesis.”

**Garimella, Suresh V**; mechanical engineering, from Rogers Corporation, \$30,000, “Cooling Technologies Research Center (CTRC) 2012-2013 Membership - Memo Match for 106029.”

**Garimella, Suresh V**; Vice President for Research, from Purdue University, \$2,000,000, “Pillars in Excellence Grant.”

**Garrison, James L**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$140,000, “Signals of Opportunity Airborne Demonstrator (SoOp-AD); Modification 7.”

**Gelvin, Stanton B**; biological sciences, from Purdue University, \$76,068, “EVPRP Bridge Funding: Stanton Gelvin.”

**Gentry, Marcia L**; educational studies, from Jack Kent Cooke Foundation, \$100,000, “Project Hope+: Application for Continued Funding 2016-2017.”

**Ghiselli, Richard F**; hospitality & tourism, from Lafayette-West Lafayette Convention and Visitor Bureau, \$1,667, “HTM Advisory Council.”

**Ghosh, Arun K**; medicinal chemistry & molecular pharmacology, from Kumamoto University, \$284,819, “Development of Antiretroviral Non-PI Agents that Penetrate Central Nervous System and Exert Potent Activity Against Various HIV-1.”

**Gibson, Kevin W**; Indiana state chemist, from Sloan Tecumseh Fellowship, \$3,333, “Skillen, Kinsey.”

**Gibson, Kevin W**; Indiana state chemist, from Sloan Tecumseh Fellowship, \$3,333, “Brewer, Adam.”

**Goforth, Reuben R**; forestry & natural resources, from Sloan Tecumseh Fellowship, \$3,333, “Cheek, Christopher A.”

**Goldsbrough, Peter B**; botany & plant pathology, from Multi-Sponsored Industrials, \$50, “Katherine Howe Gift Fund.”

**Gounder, Rajamani P**; chemical engineering, from National Science Foundation, \$517,024, “Faculty Early Career Development (CAREER): Synthesis Methods to Control Framework Aluminum Distribution in Zeolites for NOx Pollution Abatement Catalysis.”

**Groll, Eckhard A** and **Chen, Qingyan**; mechanical engineering, from Purdue Research Foundation, \$24,370, “Experimental Measurements of Airflow through a Full-Scale Door Opening.”

**Guzey, Sukru**; civil engineering, from American Petroleum Institute, \$24,491, “Api 12f Flat Bottom Tanks Failure Pressure Study Phase 2: Fatigue and Fracture Evaluation.”

**Hall, Tanya J;** field extension agents, from Washington County Economic Growth Partnership, \$3,500, “Washington County Housing Study.”

**Hamaker, Bruce R;** food science, from Kansas State University, \$192,682, “Expanding Markets for Sorghum and Millet Farmers in West Africa through Strengthening of Entrepreneur Processors and Nutrition-Based Promotion of Products.”

**Han, Qingyou;** engineering technology, from Atlas Automotive Equipment, LLC, \$25,000, “CMPR Voluntary Support Various Sponsors.”

**Harbin, Sherry L and Rickus, Jenna L;** biomedical engineering, agricultural & biological engineering, from Indiana University School of Medicine, \$39,000, “Engineering an Islet Bioinstructive Microenvironment for Improved Survival, Function, Protection, and Delivery.”

**Hartman, Nathan W;** computer graphics technology, from GE Global Research Center, \$45,200, “Extending Model Based Definition.”

**Heeg, Marlene O;** pharmacy — administration, from Novartis Pharmaceuticals Corporation, \$134,000, “Exploring Strategies to Improve Chronic Heart Failure Outcomes and Reduce Hospital Readmissions (150203860).”

**Hertel, Thomas W;** agricultural economics, from U.S. Department of Agriculture, \$20,435, “Purchase Order AG-32SB-P-16-0011 — Global Trade Analysis Project (GTAP) Membership.”

**Hertel, Thomas W;** agricultural economics, from World Trade Organization, the, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

**Hoagland, Lori A; Atallah, Shady S and Benjamin, Tamara J;** horticulture & landscape architecture, forestry & natural resources, botany & plant pathology, from Indiana State Department of Agriculture, \$78,368, “Facilitating Development of a Sustainable Local Hop Industry.”

**Hogan, Daniel F;** veterinary clinical science, from Elsevier Inc, \$6,791, “Journal of Veterinary Cardiology Editorial.”

**Hook, Tomas O;** forestry & natural resources, from Grand Valley State University, \$25,550, “Yellow Perch Stock Assessment in Drowned River Mouth Lakes and Nearshore Lake Michigan] Amendment 1.”

**Horgan, Briony H;** earth & atmospheric sciences, from Sloan Tecumseh Fellowship, \$3,333, “Ackiss, Sheridan E.”

**Huang, Libai;** chemistry, from National Science Foundation, \$285,000, “Faculty Early Career Development (CAREER): Ultrafast Nanoscopy of Energy Transport in Molecular Assemblies.”

**Ileleji, Klein and Martin, Chad A;** agricultural & biological engineering, from Foreign Agricultural Service, \$32,702, “Cochran Fellowship: Cochran Program for Thailand on U.S. Distillers Dried Grain and Solubles CFP-2015-[ASIA].”

**Irudayaraj, Joseph M;** agricultural & biological engineering, from National Science Foundation, \$50,000, “Ultrasound Guided Oxygen Release with Nanobubbles for Diagnosis and Treatment.”

**Ivantysynova, Monika;** agricultural & biological engineering, from Ford Motor Company, \$60,000, “MAHA Fluid Power Teaching and Research Laboratory.”

**Janes, David B;** Columbia initiative, from Inversiones Alimenticias La Pampa Sa, \$4, “PII Colombia Multi-Sponsor.”

**Janes, David B;** Columbia initiative, from Escuela De Ingenieria De Antioquia, \$479, “PII Colombia Multi-Sponsor.”

**Janes, David B;** Columbia initiative, from Universidad Autonoma Latinoamericana, \$2,436, “PII Colombia Multi-Sponsor.”

**Janle, Elsa M;** foods & nutrition, from Now Health Group Inc, \$23,500, “Janle Now Gift.”

**Jiang, Qing;** foods & nutrition, from Purdue University, \$59,866, “EVPRP Bridge Funding: Qing Jiang.”

**Johnson, Carla J; Bryan, Lynn A and Moore, Tamara J;** curriculum & instruction, engineering education, from Indiana Department of Education, \$163,471, “P-STEM: Partnership for Advancing Integrated Science, Technology, Engineering & Mathematics (STEM) Education.”

**Johnson, William G;** botany & plant pathology, from Helm Agro US, Inc, \$46,400, “Weed Science Research Voluntary Support.”

**Johnson, William G;** botany & plant pathology, from Amvac Chemical Corporation, \$5,000, “Weed Science Research Voluntary Support.”

**Kaplan, Ian; Ingwell, Laura L and Linder, Nathan L;** entomology, throckmorton-purdue agricultural center, from Mary S. Rice Farm Estate, \$6,000, “Updates and Repairs to Meigs High Tunnels.”

**Kaplan, Ian and Ingwell, Laura L;** entomology, from National Institute of Food & Agriculture, \$150,000, “Integrating Epidemiology, Vector Control, and Natural Crop Resistance to Manage a Devastating Beetle-Transmitted Cucurbit Pathogen.”

**Kasinski, Andrea L;** biological sciences, from PHS-NIH National Cancer Institute, \$24,465, “Identification and Therapeutic Application of miRNA -Drivers in Lung Cancer.”

**Keith, Douglas P and Jiang, Yi;** building construction & management technology, from PVR Limited, \$1,000, “Comparison Acid Base to Non-Acid Base Injection for Soil (CH) Stabilization.”

**Kelley, Todd R; Bryan, Lynn A and Holland, Jeffrey D;** industrial technology, curriculum & instruction, entomology, from National Science Foundation, \$315,627, “I-Test: Teachers and Researchers Advancing Integrated Lessons in Science, Technology, Engineering & Mathematics (STEM) (Trails).”

**Key, Nicole L;** mechanical engineering, from Honeywell Inc., \$90,000, “Honeywell Aerospace Voluntary Support.”

**Key, Nicole L;** mechanical engineering, from Duke University, \$48,314, “Grand Challenges in Turbomachinery Forced Response and NSV Mod. 6.”

**Khabeer, Suad;** anthropology, from Purdue University, \$50,000, “Sapelo Square: An Online Resource on African American Islam.”

**Kim, Kee Hong and Liu, Xiaoqi;** food science, Cancer Research Center, from PHS-NIH National Cancer Institute, \$7,463, “Role of Piceatannol in Cancer Cachexia.”

**Klimeck, Gerhard;** electrical & computer engineering, from Intel Corporation, \$0, “Network for Computational Nanotechnology (NCN) Membership.”

**Krogmeier, James V;** electrical & computer engineering, from Spensa Technologies, \$5,000, “Spensa Technology.”



**Lee, Linda S;** agronomy, from Integral Consulting Inc, \$4,000, “Total Oxidizable Precursors (TOP) Assay for Perfluoroalkyl Substances in Water Samples.”

**Lescun, Timothy B;** veterinary clinical science, from Nanovis Incorporated, \$66,239, “Durable Biomechanical Stabilization of Spinal Fusion Segments Despite Pseudoarthrosis Using Spinal Implants with Nano and Micro Porous Hierarchical Structures in a Novel Non-Union Model.”

**Leuck, Jon D; Camberato, James J; Casteel, Shaun N; Nielsen, Robert L and Vyn, Tony J;** Pinney-Purdue Agricultural Center, agronomy, from Mary S. Rice Farm Estate, \$5,000, “Fertilizer and Lime Spreader.”

**Licato, John C;** computer science — Fort Wayne campus, from Rensselaer Polytechnic Institute, \$25,000, “Great Computational Intelligence in the Formal Sciences via Analogico-Deduction.”

**Liceaga, Andrea M;** food science, from Impossible Foods Inc., \$3,000, “Multi-Sponsored Gift- Sensory.”

**Liceaga, Andrea M;** food science, from Kroger Company, \$1,020, “Multi-Sponsored Gift- Sensory.”

**Liceaga, Andrea M;** food science, from O-AT-KA Milk Products Cooperative, Inc., \$3,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Talking Rain Beverage Company, \$2,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Bay Valley Foods LLC, \$4,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Weaver Popcorn Company, \$12,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Impossible Foods Inc., \$4,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Iovate Health Sciences Inc, \$10,000, “Multi-Sponsored Gift- Sensory.”

**Lin, Tsang Long;** comparative pathobiology, from Indiana Department of National Resources Division of Fish & Wildlife, \$164,085, “Diagnostic Evaluation and Fish Health Inspection of Indiana Fish.”

**Liu, Xiaoqi; Ratliff, Timothy L and Xie, Jun;** Cancer Research Center, statistics, from National Institutes of Health, \$354,563, “Enhancing Anti-Neoplastic Activity of Metformin in Prostate Cancer.”

**Liu, Xiaoqi;** Cancer Research Center, from Purdue University, \$10,000, “Polo-Like Kinase 1 in Prostate Cancer.”

**Lopez, Roberto G;** horticulture & landscape architecture, from Hensch, Kenneth L., \$50, “Multi-Sponsored Gift Account.”

**Love, David J;** electrical & computer engineering, from University of Illinois at Chicago, \$53,037, “Optimizing Two-Way Communication with Feedback.”

**Love, David J;** electrical & computer engineering, from Nokia Siemens Networks, \$60,000, “Nokia Siemens Gift.”

**Lu, Yung-Hsiang;** electrical & computer engineering, from National Science Foundation, \$16,000, “Research Experience for Undergraduates (REU) Supplement for Si2-Sse: Analyze Visual Data from Worldwide Network Cameras.”

**Lucht, Robert P and Slabaugh, Carson D;** mechanical engineering, aeronautical & astronautical engineering, from GE Aviation, \$200,000, “High Pressure TAPS Flame Visualization (Measurements – Task 3 – Amendment 2).”

**Lucht, Robert P and Slabaugh, Carson D;** mechanical engineering, aeronautical & astronautical engineering, from GE Aviation, \$100,000, “High Pressure TAPS Flame Visualization (Measurements – Task 2 – Amendment 1).”

**Lucht, Robert P and Slabaugh, Carson D;** mechanical engineering, aeronautical & astronautical engineering, from GE Aviation, \$180,000, “High Pressure TAPS Flame Visualization (Measurements – Task 1).”

**Lucier, Bradley J; Ben-Amotz, Dor and Buzzard, Gregory T;** mathematics, chemistry, from Office of Naval Research, \$24,999, “Digital Compressive Detection Spectroscopy: Theoretical Optimization and Experimental Implementation.”

**MacGowan, Brian J;** forestry & natural resources, from Fur Takers of America Inc, \$500, “Multi-Sponsored Voluntary Support.”

**Manier, Maureen C and Pack, Darrin J;** agricultural communication, from Ohio State University, \$40,000, “Cooperative Venture to Develop a Joint Electronic News Service.”

**Marais, Karen and Johnson, Mary E;** aeronautical & astronautical engineering, aviation technology, from Federal Aviation Administration, \$83,802, “Project #5: National General Aviation Flight Information Database (NGAFID)(Amendment 35).”

**Marion Suiseeya, Kimberly R and Zantoti, Laura C;** political science, anthropology, from Purdue University, \$25,000, “From Presence to Influence: Examining the Politics of Indigenous Representation in Global Environmental Governance.”

**Martinez, Kimber J;** youth development & agricultural education, from Indiana State Department of Health, \$112,361, “Multicultural Efforts to End Sexual Assault (MESA).”

**Meilan, Richard;** forestry & natural resources, from Futuragene, Inc., \$71,300, “Field Testing Futuragene.”

**Mitchell, Cary A;** horticulture & landscape architecture, from Kennedy Space Center, \$65,000, “Pick-and-Eat Salad-Crop Productivity, Nutritional Value, and Acceptability to Supplement the ISS Food System, Amendment 1.”

**Mott, John H;** aviation technology, from Harrell Associates, LLC, \$3,000, “Advanced Aviation Analytics Institute for Research (A3IR-CORE).”

**Mudawar, Issam;** mechanical engineering, from National Aeronautics and Space Administration, \$70,000, “Flow Boiling and Condensation Experiment (FBCE).”

**Mutchler, Jane F;** finance & economics — Calumet campus, from Indiana Economic Development Corporation, \$13,063, “Northwest Indiana Small Business Development Center 2015 (State Performance Bonus).”

**Nachappa, Punya B;** biology — Fort Wayne campus, from Ohio State University, \$10,000, “Soybean Entomology in the North Central Region: Management and Outreach for New and Existing Pests.”

**Narimanov, Evgeniy;** electrical & computer engineering, from Norfolk State University, \$8,000, “Control of Light-Matter Interactions with Metamaterials.” (a Discovery Park award — Birck Nanotechnology Center)

**Nauman, Eric A;** mechanical engineering, from Indiana Pacers, \$49,000, “Pacers Project — Top Secret.”

**Neary, Michael; Tower, Jason E and Camp, Joseph W;** animal sciences, southern indiana-purdue agricultural center, comparative pathobiology, from Mary S. Rice Farm Estate, \$1,785, “Sire Effect on Resistance to Gastrointestinal Nematode Infection in Meat Goats.”

**Nielsen, Robert L and Camberato, James J;** agronomy, from Mary S. Rice Farm Estate, \$7,000, “Replacement of Precision Ag Data Collection Equipment for Field Research.”

**Niser, John C;** consumer & family sciences — Fort Wayne campus, from Haaga Helia University, \$7,000, “HSD Consortium.”

**Niser, John C;** consumer & family sciences — Fort Wayne campus, from Institut De Tourisme Et Hotellerie, \$5,000, “HSD Consortium.”

**Niser, John C;** consumer & family sciences — Fort Wayne campus, from Niagara University, \$4,000, “HSD Consortium.”

**Niser, John C;** consumer & family sciences — Fort Wayne campus, from International University Bad Honnef Bonn, \$7,000, “HSD Consortium.”

**Niyogi, Devdutta S; Biehle, Donald J and Scheeringa, Kenneth L;** agronomy, Southeast-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$10,000, “Maintenance and Improvement of Purdue Agricultural Centers Weather Station Network — 2016.”

**Pastakia, Sonak D;** pharmacy practice, from Abbott Laboratories, \$25,000, “Abbott Gift - Pastakia.”

**Patton, Aaron J;** horticulture & landscape architecture, from U.S. Golf Association, \$41,788, “Systems Approach to Poa Annua Control on Putting Greens.”

**Peroulis, Dimitrios;** electrical & computer engineering, from IMA Life, \$100,000, “Wireless Temperature Probes for Freeze Dryer Process Monitoring.” (a Discovery Park award — Birck Nanotechnology Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from IMA Life, \$10,000, “IMA Life.” (a Discovery Park award — Birck Nanotechnology Center)

**Peroulis, Dimitrios; Deering, Amanda J and McNamara, Kevin T;** electrical & computer engineering, food science, agricultural economics, from Trask Trust Fund, \$10,000, “Development and Integration of Low-Cost Moisture Sensors with Crop and Food Storage Bags.” (a Discovery Park award — Birck Nanotechnology Center)

**Pijut, Paula M;** forestry & natural resources, from Cole Hardwood, INC, \$2,500, “Voluntary Support – Pijut.”

**Pijut, Paula M;** forestry & natural resources, from Atlanta Hardwood Corporation, \$2,500, “Voluntary Support – Pijut.”

**Pijut, Paula M;** forestry & natural resources, from Jt Shannon Lumber Group, \$2,500, “Voluntary Support – Pijut.”

**Pijut, Paula M;** forestry & natural resources, from Turn Bull Lumber Company, \$2,500, “Voluntary Support – Pijut.”

**Pipes, R Byron;** aeronautical & astronautical engineering, from The Boeing Company, \$250,000, “Certification and NDE of Short Fiber Composite Materials and Structures for 2012-001-5.”

**Pipes, R Byron; Yu, Wenbin; Sterkenburg, Ronald; Goodsell, Johnathan E and Strachan, Alejandro H;** aeronautical & astronautical engineering, aviation technology, materials engineering, from University of Tennessee, \$2,784,020, “BP2-Overall IACMI.”

**Plake, Kimberly S;** pharmacy practice, from Kinley Trust, \$20,000, “A Patient-Centered Perspective on Medication Counseling: Information Seeking and Outcomes Among an Elderly Population.”

**Powley, Terry L;** psychological science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$58,107, “Autonomic Control of Body Weight and Feeding.”

**Prokopy, Linda S;** forestry & natural resources, from National Institute of Food & Agriculture, \$324,000, “Lessons Learned from Five Years of Investment by USDA-National Institute of Food and Agriculture (NIFA) into Climate Change and Agroecosystems.”

**Prokopy, Linda S;** forestry & natural resources, from Environmental Defense Fund, \$40,000, “Social Science Component of Demonstration Watershed Project.”

**Quagraine, Kwamena K;** agricultural economics, from Illinois Cooperative Extension Service, \$42,020, “Agreement Between Purdue and Illinois Cooperative Extension Service; Amendment 2.”

**Rainey, Katherine M;** agronomy, from University of Illinois, \$41,631, “Acceleration of Soybean Yield and Composition Improvement through Genomic Selection.”

**Rasche, Nancy J;** computer graphics technology, from Ford Motor Company, \$50,000, “University-Research-Program (URP) Funding.”

**Ratliff, Timothy L;** Cancer Research Center, from Walther Cancer Institute Foundation Inc, \$100,000, “Center Directors Developmental Funds Award.”

**Rhoads, Jeffrey F; Adams, Douglas E; Bolton, JS and Davies, Patricia;** mechanical engineering, from North Carolina State University, \$110,000, “Semiwave Multidisciplinary University Research Initiative (MURI): Sound and Electromagnetic Interacting Waves.”

**Richert, Brian T;** animal sciences, from Agricultural Research Service, \$2,898, “Designer Diets Decrease Aggression and Increase Welfare.”

**Richert, Brian T and Radcliffe, John S;** animal sciences, from Elanco Animal Health, \$90,699, “Proof Concept Study to Assess the Effect of Endo-1,3 Beta-D-Glucanase Enzyme Inclusion in Corn-Soybean Meal — Corn Derived Dried Distillers Grains with Solubles Diet with Increasing Levels of Solubles.”

**Richert, Brian T;** animal sciences, from Diamond V Mills, Inc., \$17,000, “Swine Research.”

**Richmond, Douglas S;** entomology, from FMC Corporation, \$4,000, “Turfgrass Entomology Research.”

**Ridgway, Kenneth D;** earth & atmospheric sciences, from Sloan Tecumseh Fellowship, \$3,333, “Armenta-Romero, Mariah.”

**Robicheaux, Francis J;** physics, from U.S. Department of Energy, \$90,000, “Atoms and Ions Interacting with Particles and Fields.”

**Rocheford, Torbert R;** agronomy, from Trask Trust Fund, \$25,000, “Commercialization of High Provitamina Carotenoid Maize Hybrids.”

**Rossmann, Michael G;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$642,306, “Structural Studies of Togaviruses.”

**Russell, Mark A;** youth development & agricultural education, from Pioneer Hi-Bred International, Inc., \$15,000, “Case Program.”

**Sadeghi, Farshid;** mechanical engineering, from Ford Motor Company, \$150,000, “Tribology Lab Research.”

**Salazar, Kara A; Doucette, Jarrod S; Miller, Brian K and Pijanowski, Bryan C;** illinois-indiana sea grant program, forestry & natural resources, from University of Illinois, \$40,000, “Tipping Points and Indicators — Amendment 1.”

**Sandhage, Kenneth H;** materials engineering, from Georgia Technology, \$50,000, “Bio-Paints Multidisciplinary University Research Initiative (MURI) - (Bio-Enabled Particle Adherents for Interrogative Spectroscopy).”

**Sandhage, Kenneth H;** materials engineering, from Georgia Technology, \$180,033, “High Efficiency Solar Fuels Reactor Concept.”

**Saraswat, Dharmendra;** agricultural & biological engineering, from University of Arkansas, \$8,263, “Development of Nawf Monitor App for Enhanced Cotton Crop Management.”

**Saraswat, Dharmendra;** agricultural & biological engineering, from the Dow Chemical Company, \$1,500, “Multi-Sponsored Gift.”



**Scalo, Carlo**; mechanical engineering, from Ford Motor Company, \$50,000, “Ford Gift Letter.”

**Scharf, Michael E**; entomology, from Ento Bio, \$67,499, “Termite-Derived Enzymatic Tree Herbicides.”

**Schinckel, Allan P** and **Ajuwon, Kolapo**; animal sciences, from University of Arizona, \$107,889, “Engineering Soybeans to Enhance Gut-Health.”

**Schoenlein, William E**; biomedical engineering, from Cook Research Incorporated, \$235,380, “Pre-Clinical Device Testing Agreement; Studies: CI-FLT3, CI-GSA2, CI-CXCR, CUI-USAR and Other.”

**Schoenlein, William E**; biomedical engineering, from Cook Research Incorporated, \$76,526, “Pre-Clinical Device Testing Agreement; Studies: CCC-CAPD CI-TDCA RECWBCV CBI-FTSS CBI-HEMS POC and Sentinels.”

**Scott-Moncrieff, Joanna C**; veterinary clinical science, from Veterinary Vision of Rochester, \$10,113, “Radiology Residency Support.”

**Scutari, Gesualdo**; industrial engineering, from Office of Naval Research, \$5,000, “Distributed Optimization Methods for Nonconvex In-Network Big Data Analytics.”

**Semperlotti, Fabio**; mechanical engineering, from University of Notre Dame, \$56,055, “Multi-Resolution Functionality Graded Meta-Structures for the Passive Control of Broadband and Non-Stationary Dynamics in Thin-Walled Structures.”

**Sepulveda, Maria S**; forestry & natural resources, from Sloan Tecumseh Fellowship, \$3,333, “Cronin, Janelle A.”

**Sheffield, John W**; lafayette polytechnic, from International Association for Hydrogen Energy, \$2,500, “IAHE Expenses.”

**Shepardson, Daniel P**; **Bayley, William G**; **Sands, Philip A**; **Smith, Steven C** and **Walker, William S**; science – administration, chemistry, computer science, earth & atmospheric sciences, Office of Engagement, from Lafayette School Corporation, \$19,368, “Content Thematic Units for Integrated Science, Technology, Engineering & Mathematics (STEM) Education.”

**Simpson, Vicki L**; nursing, from Indiana Clinical & Translational Science Institute, \$6,250, “Healthy Communities of Clinton County Coalition Community Based Screening and Education Program.”

**Slipchenko, Lyudmila V** and **Gurunathan, Pradeep**; chemistry, from National Science Foundation, \$50,000, “Automated Software for Modeling of Linear and Non-Linear Optical Properties.”

**Smith, Richard S**; food science, from Nestle R & D Center, Inc., \$6,000, “Nestle-Gerber Microwave Testing.”

**Smith, Richard S**; food science, from PHS-FDA Food and Drug Administration, \$178,419, “Training and Pilot Processing Laboratory Services for Food Processing Technology Courses, Mod 2.”

**Son, Steven F**; mechanical engineering, from Pennsylvania State University, \$58,655, “Smart, Functional Nanoenergetics Design from the Atomistic/Molecular Scale through the Mesoscale, Amendment 4.”

**Spafford, Eugene H**; computer science, from Raytheon, \$60,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

**Stansbury, Betty M**; airport operations, from Indiana Department of Transportation, \$49,918, “Strengthen Runway 10-28 and Rehabilitate Intersection with Runway 05-28 - Phase 2 (Construction)(State) Project 37.”

**Stansbury, Betty M**; airport operations, from Indiana Department of Transportation, \$24,609, “Strengthen Runway 10-28 and Rehabilitate Intersection with Runway 05-28 - Phase 2 (Construction)(State) Project 36.”

**Stansbury, Betty M**; airport operations, from Indiana Department of Transportation, \$75,000, “Strengthen Runway 10-28 and Rehabilitate Intersection with Runway 05-28 - Phase 2 (Construction); Install LED Airfield Signage (Phase 2 Construction) (State) Project #38.”

**Stantz, Keith M**; health sciences, from Trask Trust Fund, \$30,000, “3-D Dosimetric Imaging of Particle Beams for Radiation Therapy.”

**Stewart, Kara R**; **Funnell, Bethany J** and **Lemenager, Ronald P**; animal sciences, veterinary clinical science, from Mary S. Rice Farm Estate, \$10,000, “Progesterone Supplementation Post- Artificial Insemination in Beef Cattle.”

**Strachan, Alejandro H**; materials engineering, from U.S. Department of Energy, \$94,210, “Shape Memory in Nanoscale Metallic Alloys.”

**Stroshine, Richard L**; agricultural & biological engineering, from Woods End Laboratory, Inc., \$5,198, “Fungal Susceptibility Measurement as a Tool for Maintaining Quality of Shelled Corn During Storage.”

**Subramaniam, Mangala**; sociology, from Purdue University, \$25,000, “Coping with Intimate Partner Violence: High Risk Groups and HIV Prevention in India.”

**Sudhoff, Scott D**; electrical & computer engineering, from National Renewable Energy Laboratory, \$33,333, “SuNLaMP AMPVI: Develop Magnetics Design Optimization Tool and Design and Construct Optimized Power Magnetics, Mod 1.”

**Szpankowski, Wojciech**; computer science, from Purdue University, \$155,995, “Science of Information Center, FY 1516 (Year 2).” (a Discovery Park award — Discovery Park Administration)

**Talavage, Thomas M**; electrical & computer engineering, from Cook Incorporated, \$30,000, “Cook Support for Magnetic Resonance Imaging (MRI).”

**Talavage, Thomas M**; electrical & computer engineering, from Cook Incorporated, \$20,000, “Cook Support for Magnetic Resonance Imaging (MRI).”

**Talbert, Brian A**; youth development & agricultural education, from Indiana Commission for Higher Education, \$132,729, “Growing the Pipeline for Agricultural Education Teachers in Indiana.”

**Tantama, Mathew C**; chemistry, from PHS-NIH National Institute Neurological Disorders and Stroke, \$229,642, “Genetically-Encoded Optical Sensors to Study Purinergic Signaling.”

**Tao, Bernard Y**; food science, from Sealed Air Corporation, \$10,000, “Testing Agreement for High Voltage Atmospheric Cold Plasma Treatment of Sealed Air Product.”

**Taylor, Lynne S**; industrial & physical pharmacy, from Bend Research, Inc, \$131,269, “New Approaches for Miscibility Evaluation in Spray-Dried Formulations.”

**Topp, Elizabeth M**; **Balakrishnan, Shenbaga Moorthy**; **Knipp, Gregory T**; **Lill, Markus A** and **Tabatabaei Ghomi, Hamed**; industrial & physical pharmacy, medicinal chemistry & molecular pharmacology, from Trask Trust Fund, \$30,000, “Phosphate Esters of Glucagon.”

**Topp, Elizabeth M**; industrial & physical pharmacy, from PHS-NIH National Institute of General Medical Science, \$296,583, “Protein Aggregation in Amorphous Solids.”

**Umberger, Gloria H**; technology — administration, from John Deere Agricultural US, \$6,000, “Senior Capstone.”

**Umberger, Gloria H**; technology — administration, from Eaton, \$6,000, “Senior Capstone.”

**Vacca, Andrea**; agricultural & biological engineering, from National Fluid Power Association, \$1,000, “Multi-Sponsored Gift.”

**Vacca, Andrea**; agricultural & biological engineering, from Thomas Magnete GmbH, \$19,015, “Validation of a Numerical Model for Gerotor Units.”

**Varner, Jeffrey D**; chemical engineering, from University of California - Santa Barbara, \$300,000, “Systems Biology of Coagulation and Trauma-Induced Coagulopathy.”

**Vitek, Olga**; statistics, from Northeastern University, \$9,413, “Faculty Early Career Development (CAREER): Sparse-Sampling Inference for Functional Proteomics, Metabolomics and Ionomics.”

**Vitek, Olga**; statistics, from Northeastern University, \$55,959, “Faculty Early Career Development (CAREER): Sparse-Sampling Inference for Functional Proteomics, Metabolomics and Ionomics.”

**Vyn, Tony J**; agronomy, from Fluid Fertilizer Foundation, \$2,900, “Agricultural Cropping Systems.”

**Vyn, Tony J**; agronomy, from PCS Administration (USA), Inc., \$5,000, “Agricultural Cropping Systems.”

**Wasserman, Adam**; chemistry, from DOE-ER-Basic Energy Sciences Chemistry, \$76,478, “Towards Linear Scaling Electronics Structure via Partition Density Functional Theory.”

**Weaver, Connie M**; foods & nutrition, from McCormick Co., Inc. (The), \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M**; foods & nutrition, from Herbalife, \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M**; foods & nutrition, from Entera Health, \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M**; foods & nutrition, from The Coca Cola Company, \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M and McCabe, George P**; foods & nutrition, statistics, from Alliance for Potato Research and Education, \$645,959, “The Effect of Potatoes on Potassium Retention, Acid Base Balance, and Blood Pressure Reduction and in Mildly Hypertensive Men and Women.”

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

**Webb, Kevin J and Low, Philip S**; electrical & computer engineering, chemistry, from National Institutes of Health, \$16,748, “Optical Imaging of Targeted Anti-Cancer Drug Delivery Kinetics.”

**Wei, Alexander**; chemistry, from David & Anna Wei Charitable Foundation, \$2,000, “Wei Gift Funds.”

**Weinstein, Dana**; electrical & computer engineering, from HRL Laboratories, LLC, \$413,728, “Upside Phase 1 - Resonant Body Oscillator Emerging Devices.”

**Weller, Stephen C**; horticulture & landscape architecture, from Rutgers State University, \$35,000, “Improving Income and Nutrition of Smallholder Farmers in Eastern Africa Using a Market Driven Approach to Enhance Value Chain Production of African Indigenous Vegetables.”

**Wendt, Michael K**; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$23,858, “Targeting FGFR to Prevent the Outgrowth of Metastatic Breast Cancer.”

**Wilker, Jonathan J**; chemistry, from Office of Naval Research, \$70,940, “Identifying and Attacking Themes in Marine Bioadhesion for Antifouling Coatings.”

**Wilker, Jonathan J**; chemistry, from Office of Naval Research, \$30,147, “Identifying and Attacking Themes in Marine Bioadhesion for Antifouling Coatings.”

**Williams, Rod N and Kimble, Steven J**; forestry & natural resources, from Indiana Department of Natural Resources, \$48,119, “Genetic Assessment of Crawfish Frog (*Lithobates Areolatus*) Populations in Indiana.”

**Williams, Rod N**; forestry & natural resources, from Fort Wayne Zoological Society, \$6,500, “Voluntary Support.”

**Williams, Rod N**; forestry & natural resources, from Ronald or D. Shane Breeding, \$60, “Voluntary Support.”

**Xu, Jin-Rong**; botany & plant pathology, from Kansas State University, \$60,799, “Novel Strategies for Managing Blast Diseases on Rice and Wheat.”

**Young, Brienne M**; intercollegiate athletic — administration, from Exacto Chemical Company, \$1,000, “Multi-Sponsored Gift Account.”

**Young, Bryan G**; botany & plant pathology, from Miller Chemical & Fertilizer Corp., \$4,900, “Multi-Sponsored Gift Account.”

**Young, Bryan G**; botany & plant pathology, from Precision Laboratories Inc., \$4,025, “Multi-Sponsored Gift Account.”

**Young, Bryan G**; botany & plant pathology, from Chemorse, Ltd, \$8,400, “Multi-Sponsored Gift Account.”

**Young, Bryan G and Johnson, William G**; botany & plant pathology, from Mary S. Rice Farm Estate, \$5,000, “Small-Plot Sprayer for Field Research Management.”

**Yu, Wenbin**; aeronautical & astronautical engineering, from Georgia Institute of Technology, \$5,841, “Next-Generation Vabs for More Realistic Modeling of Composite Blaes; Amendment 5 (Grant 106881).”

**Zentner, Michael G**; academic technologies, from University of North Carolina, \$12,107, “Establishing a Prototype Hub for the Mathematics and Climate Research Network.”

**Zhang, Zhong-Yin**; medicinal chemistry & molecular pharmacology, from Suny Upstate Medical University, \$37,347, “Targeting of Shp2 Tyrosine Phosphatase in Myeloproliferative Neoplasms.”

**Zheng, Wei**; health sciences, from PHS-NIH National Institute of Environment Health Science, \$155,000, “Choroid Plexus as a Target in Metal-Induced Neurotoxicity.”

**Zillich, Alan J**; pharmacy practice, from Eskenazi Health, \$506,237, “Co-Funded Position in Adult Medicine with Eskenazi Hospital.” ■

## Notice Regarding Sponsored Program Awards

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