

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

November 2015

**Abbott, Angela R** and **Palmer, Laura A**; agriculture – administration, health and human sciences, from Pennsylvania State University, \$37,831, “Cyfar Coach.”

**Abu-Omar, Mahdi M**; chemical engineering, from Eli Lilly and Company, \$100,000, “Green Solvents Discovery and Development.”

**Agrawal, Rakesh**; chemical engineering, from Ross Graduate Fellowship/Assistantship, \$16,834, “McClary, Scott A.”

**Agrawal, Rakesh**; **Lundstrom, Mark S**; **Alam, Muhammad A**; **Garimella, Suresh V** and **Sharma, Pankaj**; chemical engineering, electrical & computer engineering, mechanical engineering, industrial technology, from National Renewable Energy Laboratory, \$63,750, “Solar Energy Research Institute for India and the United States (Serius).”

**Ajuwon, Kolapo**; animal sciences, from Ab Agri Limited, \$25,000, “Swine Research.”

**Ajuwon, Kolapo**; animal sciences, from Ab Agri Limited, \$35,000, “Swine Research.”

**Alam, Muhammad A**; electrical & computer engineering, from Texas Instruments, Inc., \$60,000, “Texas Instruments Gift.”

**Alexeenko, Alina**; aeronautical & astronautical engineering, from Ima Life, \$10,000, “Lyogroup Consortium.”

**Allebach, Jan P**; electrical & computer engineering, from Hewlett Packard, \$525,000, “Print Quality Improvement Program.”

**Allebach, Jan P**; electrical & computer engineering, from Hewlett Packard, \$75,000, “Person Detection and Recognition for Smarthome and Smartoffice.”

**Ambrose, Rose Prabin K**; agricultural & biological engineering, from Kansas State University, \$43,999, “Flow Behavior and Spray Coating Efficiency During the Production of Rendered Protein Meals.”

**Anderson, Joseph M**; agronomy, from Rubisco Seeds LLC, \$3,250, “Corn Research.”

**Anderson, Joseph M**; agronomy, from Rubisco Seeds LLC, \$3,000, “Corn Research.”

**Appenzeller, Joerg**; **Chen, Zhihong** and **Klimeck, Gerhard**; electrical & computer engineering, from University of Notre Dame, \$670,848, “Modification No 6 to Grant 106424.” (a Discovery Park award — Birck Nanotechnology Center)

**Arling, Gregory W**; nursing, from Indiana University, \$62,497, “Initiative to Reduce Avoidable Hospitalizations Among Nursing Facility Residents – Optimistic.”

**Bahr, David F**; materials engineering, from Purdue Doctoral Program, \$31,910, “Brenner, Anneliese.”

**Bajaj, Anil K**; mechanical engineering, from Cummins Business Services, \$27,000, “Cummins Assistanships.”

**Bayley, William G**; chemistry, from North Putnam Community School Corporation, \$600, “Instrumentation Van Project.”

**Benes, Bedrich**; computer graphics technology, from Purdue University, \$2,000, “INCR: 1415 Lab & Core Equipment Grant.”

**Bertino, Elisa**; computer science, from Eli Lilly and Company, \$57,837, “Informatics Database.”

**Bigelow, Cale A**; horticulture & landscape architecture, from Pro Products, LLC, \$3,000, “Putting Greens Research.”

**Boudouris, Bryan W**; chemical engineering, from National Science Foundation, \$97,600, “Faculty Early Career Development (CAREER): Advanced Molecular Architectures for Electronically-Active Radical Polymers.”

**Brophy, Sean**; engineering education, from Purdue University, \$15,000, “15/16 Entrepreneurial Leadership Academy Award.” (a Discovery Park award — Burton D. Morgan Center)

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

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

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$17,259, “Transportation Research Board (TRB) Annual Meeting Activities.”

**Byrn, Stephen R**; industrial & physical pharmacy, from University of Chicago, \$99,230, “Pre-clinical Development of Myosolvins, a New Class of Medicine, Amendment 1.”

**Casteel, Shaun N**; agronomy, from Valent U.S.A. Corporation, \$9,000, “Soybean Extension Research.”

**Chen, Jun**; mechanical engineering, from Environmental Protection Agency, \$15,000, “Development of Distributed Off-Grid Wind Energy System for Rural African Communities.”

**Cheng, Ji-Xin**; biomedical engineering, from California Medical Innovations, \$41,684, “Micro-Mechanical Role of Hypertension in Intimal Hyperplasia.”

**Cheng, Ji-Xin**; biomedical engineering, from National Collegiate Inventors & Innovators Alliance, \$10,000, “Biomedical Engineering Innovation, Design and Entrepreneurship Award (BMEidea).”

**Choi, Young D**; biological sciences – Calumet campus, from Indiana Department of Natural Resources, \$43,062, “Ecology Education for Local College Students and Residents for Monitoring of Biodiversity in the Coffee Creek Watershed.”

**Christian, John A**; comparative pathobiology, from Western University of Health Sciences, \$1,855, “Cytology Resource Center.”

**Christmon, Kenneth C**; diversity and multicultural affairs – Fort Wayne campus, from Indiana Department of Workforce Development, \$32,421, “Career and Technical Education Student Services 2015-2016.”

**Collicott, Steven H**; aeronautical & astronautical engineering, from Rolls-Royce, Inc., \$95,172, “2015 Oil Spin Testing.”

**Dasgupta, Anirban**; statistics, from Elsevier Ltd, \$68,831, "Executive Editor Agreement for Anirban Dasgupta."

**DeLaurentis, Daniel A**; aeronautical & astronautical engineering, from University of Maryland, \$30,000, "National Center of Excellence for Aviation Operations Research (NEXTOR) II: Air Connectivity Index."

**Delaurentis, Daniel A**; aeronautical & astronautical engineering, from Missile Defense Agency, \$73,447, "An Agent-Based Concept for an Enhanced Command and Control, Battle Management, and Communications (C2BMC) Architecture: Modification 25 Grant No. 104755."

**Delp, Edward J**; electrical & computer engineering, from University of Hawaii, \$11,210, "Food Image Capture Using a Mobile Application."

**Delp, Edward J**; electrical & computer engineering, from Google Inc, \$40,086, "Google."

**Deshmukh, Abhijit V; Bagchi, Saurabh and Lee, Seokcheon**; industrial engineering, electrical & computer engineering, from General Electric Company, \$216,094, "Priam15-01: Smart Real Time Optimized Factories."

**Diaz Valderrama, Jorge Ronny**; botany & plant pathology, from Golden Key International Honour Society, \$2,500, "Jorge Valderrama Golden Key Award."

**Doerge, Rebecca W**; statistics, from Cook Research Incorporated, \$18,555, "Cook Research Inc Ra Fall 2015."

**Doudareva, Natalia**; biochemistry, from Binalund Science Foundation, \$27,450, "Plant-Mediated Defense Mechanisms in Gall-Forming Aphids."

**Dragnev, Peter D; Anderson, Jeffrey R and Coroian, Iuliu D**; mathematics – Fort Wayne campus, from Vision Menu, \$4,930, "Mathematics Support to Improve Accuracy."

**Dyda, Ulrike**; health sciences, from Purdue University, \$30,000, "Imaging of Dopaminergic Neuron Function in Welders."

**El-Azab, Anter A**; materials engineering, from Battelle Energy Alliance LLC, \$103,483, "Microstructure Evolution in Irradiated UO<sub>2</sub>."

**Engel, Bernard A**; agricultural & biological engineering, from Egyptian Cultural and Educational Bureau, \$80,000, "ECEB 2015 Atef Mohamed Abouelnour Gm 1027."

**Esters, Levon T**; youth development & agricultural education, from Pioneer Hi-Bred International, Inc., \$5,000, "John Deere Map Summer Program."

**Fairfax, Keke C**; comparative pathobiology, from Endoparagon Inc, \$1,145, "Studies Related to Cysteine Protease C<sub>2</sub> Compounds Versus Schistosomiasis."

**Federer, Natalie L**; field extension educators, from Fulton County REMC Operation Roundup, \$2,000, "Educational Programs in Pulaski County."

**Fentiman, Audeen W**; engineering administration engineering experiment, from Idaho National Laboratory, \$18,432, "Light Water Reactor (LWR) Research, Development and Demonstration (RD&D) Plan."

**Finke, Linda M**; health & human services – Fort Wayne campus, from Indiana Family Health Council, \$3,465, "Lafayette Street Family Health Clinic – Insurance Navigator Grant – Title X."

**Fisher, Timothy; Heister, Stephen D and Shih, Tom I**; mechanical engineering, aeronautical & astronautical engineering, from Air Force Research Laboratory, \$98,000, "Center for Integrated Thermal Management of Aerospace Vehicles [Grant No. 106951]" (a Discovery Park award — Birck Nanotechnology Center)

**Fisher, Timothy**; mechanical engineering, from Raytheon, \$10,000, "Purdue G-Load Test of Heat Pipes Project." (a Discovery Park award — Birck Nanotechnology Center)

**Garimella, Suresh V**; mechanical engineering, from Intel Corporation, \$15,000, "Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) 2012-2013 Membership - Memo Match for 106029."

**Gaskill, Brianna N**; comparative pathobiology, from Medical Research Council, England, \$4,537, "Laboratory Animal Welfare."

**Geahlen, Robert L**; medicinal chemistry & molecular pharmacology, from Purdue University, \$30,000, "Tyrosine Protein Kinases and Lymphocyte Activation."

**Giannios, Dimitrios**; physics, from Smithsonian Astrophysical Observatory, \$102,057, "Einstein Postdoctoral Fellowship - Maria Petropoulou."

**Giannios, Dimitrios**; physics, from National Aeronautics and Space Administration, \$152,415, "Relativistic Jets: Acceleration, Dissipation and Interactions with Ambient Gas."

**Gitau, Margaret W**; agricultural & biological engineering, from Purdue University, \$16,944, "Assessment of Current Water Quality Indices in Relation to Ecological Functioning in the Coastal Zone."

**Gounder, Rajamani P**; chemical engineering, from Korea University, \$6,000, "Young-gul Hur – Purdue University – Korea U Bk."

**Hacker, Thomas J and Hansen, Raymond A**; computer & information technology, from University of Stavanger, \$30,000, "Strategic Collaboration on Advanced Data Analysis and Communication Between Purdue University and University of Stavanger." (a Discovery Park award – NEEScomm)

**Haines, Melinda D**; visual & performing arts – Fort Wayne campus, from Arts United of Greater Fort Wayne, \$4,925, "Indiana University-Purdue University Fort Wayne (IPFW)/Shruti Indian Performance Series – Ragamala Dance."

**Hamaker, Bruce R and Terekhov, Anton I**; food science, from Herbalife, \$9,806, "Aloe Vera Leaf Carbohydrate Analysis."

**Hamaker, Bruce R and Ferruzzi, Mario**; food science, from Pepsico Inc./ World Trading Co., \$90,272, "In Vitro Studies with Orange Pomace."

**Hamaker, Bruce R**; food science, from Mondelez Global LLC, \$105,327, "Study and Identification of Starch Sources with Improved Slowly Digestible Property in Intermediate Moisture Systems."

**Hamilton, Roy L**; Education Opportunities Program – Calumet campus, from U.S. Department of Education, \$276,777, "Ronald E. McNair Post-Baccalaureate Achievement Program."

**Han, Qingyou**; engineering technology, from Ryobi Die Casting (USA) Inc, \$10,000, "Center for Materials Processing Research (CMPR)."

**Handwerker, Carol A and Blendell, John E**; materials engineering, from Tri Austin, \$30,000, "Base Metal Electrode Capacitor Test Methods."

**Hartman, Nathan W and Sangid, Michael D**; industrial engineering, aeronautical & astronautical engineering, from General Electric Company, \$211,829, "Priam15-03: Extend Model Based Definition and Interoperability for MBE."

**Heeg, Marlene O;** pharmacy – administration, from Otsuka America Pharmaceutical, \$150,000, “Peerview Maintenance of Certification Educational Platform, “improving Remission Rates in Patients with Major Depressive Disorder in an Era of Updated Diagnostic Criteria and Expanding Treatment Options.”

**Heeg, Marlene O;** pharmacy – administration, from American Regent, \$100,000, “2015 GIHF National Inflammatory Bowel Disease Educational Initiative.”

**Heeg, Marlene O;** pharmacy – administration, from Merck Sharp & Dohme Corp, \$150,000, “2015-2016 Gala Hcv Resistance Educational Series.”

**Heeg, Marlene O;** pharmacy – administration, from Abbvie Inc, \$300,000, “2015-2016 Gala HCV Resistance Educational Series.”

**Heinz, Michael G;** speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$290,219, “Effects of Sensorineural Hearing Loss on Robust Speech Coding.”

**Heister, Stephen D;** aeronautical & astronautical engineering, from Hypercomp Inc, \$48,000, “STTR-Phase II: New Paradigms in High Pressure Combustion Dynamics Prediction and Control.”

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

**Hertel, Thomas W;** agricultural economics, from University of Chicago, \$148,439, “Robust Decision-Making on Climate and Energy.”

**Hertel, Thomas W;** agricultural economics, from U.S. International Trade Commission, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

**Hogan, Daniel F;** veterinary clinical science, from Cornell University, \$5,000, “Journal of Veterinary Cardiology Editorial.”

**Hooser, Stephen B;** comparative pathobiology, from Indiana Department of Natural Resources, \$28,140, “Diagnostic Evaluation of Chronic Wasting Disease in White-Tailed Deer.”

**Huang, Libai;** chemistry, from University of Notre Dame, \$68,000, “EFRI 2-Dare Monolayer Heterostructures: Epitaxy to Beyond-CMOS Devices; Amendment No. 2.”

**Hwang, Inseok;** aeronautical & astronautical engineering, from Optimal Synthesis Inc, \$4,000, “A Formal Approach to User Interface Design Using Hybrid System Theory – Phase II.”

**Ivantysynova, Monika; Lumkes, John H and Vacca, Andrea;** agriculture – administration, agricultural & biological engineering, from University of Minnesota, \$460,984, “NSF Engineering Research Center (ERC) for Compact, Clean and Efficient Fluid Power Systems.” (a Discovery Park award — Energy Center)

**Ivantysynova, Monika; Lumkes, John H and Vacca, Andrea;** agriculture – administration, agricultural & biological engineering, from University of Minnesota, \$13,758, “NSF Engineering Research Center (ERC) for Compact, Clean, and Efficient Fluid Power Systems.” (a Discovery Park award — Energy Center)

**Ivantysynova, Monika;** agriculture – administration, from University of Minnesota, \$9,200, “NSF Engineering Research Center (ERC) for Compact, Clean and Efficient Fluid Power Systems – Research Experience for Undergraduates (REU) Site Award.” (a Discovery Park award — Energy Center)

**Jacobs, Douglass F;** forestry & natural resources, from Indiana Department of Natural Resources, \$80,308, “Interactions of Nursery Stocktypes and Site Preparation on Mine Reclamation Success.”

**Janes, David B and Hirleman, E D;** electrical & computer engineering, Vice President for Research, from Ruta N Medellin, \$433,416, “Ruta N Budget for Pii.”

**Janes, David B and Hirleman, E D;** electrical & computer engineering, Vice President for Research, from Ruta N Medellin, \$1, “Ruta N Budget for Purdue WL.”

**Jiang, Wen; Xu, Jin-Rong and Tao, Weiguo A;** biological sciences, botany & plant pathology, biochemistry, from Purdue University, \$9,500, “Dissect the Architecture of Spliceosome.”

**Jiang, Wen;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$489,728, “HBGA Receptors in Host Cell Entry and Infection of Norovirus.”

**Johnson, David R;** materials engineering, from Arcelormittal USA, \$27,000, “Boron Segregation and its Effects.”

**Johnson, William G;** botany & plant pathology, from FMC Corporation, \$1,375, “Weed Science Research Voluntary Support.”

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

**Johnson, William G;** botany & plant pathology, from Lehigh Agricultural & Biological Services, Inc., \$5,000, “Weed Science Research Voluntary Support.”

**Johnson, William G;** botany & plant pathology, from E.I. DuPont de Nemours and Company, \$30,200, “Weed Science Research Voluntary Support.”

**Kirkpatrick, Jane M and Adedokun, Omolola A;** nursing, Discovery Learning Center, from Community Health Network, \$73,254, “Interprofessional Collaborative Process Improvement Program.” (a Discovery Park award — Discovery Learning Center)

**Kirkpatrick, Jane M;** nursing, from Greater Lafayette Community Foundation, \$10,795, “Continuing Education for Nurses Who Encounter Patients with Cancer. Multimedia Instruction with Hands-on Simulation to Apply the New Knowledge.”

**Koh, Cheng-Kok and Lu, Yung-Hsiang;** electrical & computer engineering, from National Science Foundation, \$8,000, “CI-ADDO-New: Collaborative Research: Development of Darwin Humanoid Robots for Research, Education and Outreach.”

**Krane, Matthew J;** materials engineering, from Special Metals Corp., \$13,270, “Thermophysical Property Measurements of the Neutral Stag from ESR Trials.”

**Krane, Matthew J;** materials engineering, from Arcelormittal USA, \$27,000, “Boron Segregation and its Effects.”

**Krane, Matthew J;** materials engineering, from Arcelormittal USA, \$6,000, “Arcelor Mittal Steel Processing Project.”

**Kreisle, Regina A;** medical education, from Indiana University, \$72,332, “Fy15-16 Indiana University School of Medicine (IUSM)-Lafayette General Fund.”

**Krogmeier, James V;** electrical & computer engineering, from Land O’Lakes Inc., \$61,261, “Open Ag Technology Group.”

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

**Krogmeier, James V;** electrical & computer engineering, from Centricity LLC, \$347, “Open Ag Technology Group.”



**Laird, Carl D;** chemical engineering, from Sandia National Laboratories, \$82,049, “Numerical Solution of Large-Scale Network Problems.”

**Latin, Richard X;** botany & plant pathology, from FMC Corporation, \$5,600, “Turfgrass Disease Research.”

**Liceaga, Andrea M;** food science, from Ramsey Popcorn Co Inc, \$1,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Kroger Company, \$3,000, “Multi-Sponsored Gift – Sensory.”

**Liceaga, Andrea M;** food science, from Pasco Onions Ltd, \$1,015, “Multi-Sponsored Gift – Sensory.”

**Lin, Guang;** mechanical engineering, from Ohio State University, \$17,322, “MBI Early Career Award.”

**Lipton, Mark A;** chemistry, from Syracuse University, \$16,138, “Development and Validation of Ghrelin O-Acyltransferase Inhibitors for Treating Hyperphagia in Prader-Willi Syndrome.”

**Lowenberg-Deboer, James M and Burniske, Andrea E;** International Programs in Agriculture, from Volunteers Economic Growth Alliance, \$228,344, “Farmer to Farmer (F2F) in Colombias Orinoquia Region.”

**Lu, Na;** civil engineering, from National Science Foundation, \$323,723, “Faculty Early Career Development (CAREER): Investigating Process-Structure-Property Correlations of Nitrides and Oxides for High Temperature Thermoelectric Applications.”

**Lucht, Robert P and Slabaugh, Carson D;** mechanical engineering, aeronautical & astronautical engineering, from GE Aviation, \$110,000, “High Pressure TAPS Visualization (Assembly, Shakedown, and Initial Test – F).”

**Lucht, Robert P and Slabaugh, Carson D;** mechanical engineering, aeronautical & astronautical engineering, from GE Global Research Center, \$60,000, “Combustor Exit Turbulence Intensity Measurements at High Power Operating Conditions in Comrad Optical Rig.”

**Lucht, Robert P and Meyer, Scott E;** mechanical engineering, from Siemens Power Generation Inc, \$270,000, “Distributed Combustion Studies in the Purdue High-Pressure Gas Turbine Combustion Test Rig.”

**Lundstrom, Mark S; Alam, Muhammad A and Roy, Kaushik;** electrical & computer engineering, from National Science Foundation, \$300,000, “Network for Computational Nanotechnology – Needs Node – Supplement.” (a Discovery Park award — Network for Computational Nanotechnology)

**Lynall, Matthew D;** management, from Dow Agro Sciences, \$5,000, “Krannerts Experiential Learning Initiative (ELI).”

**Lynam, Donald R;** psychological science, from University of Kentucky, \$80,790, “CDART Project 3 – Center for Drug Abuse Research Translation.”

**Ma, Jianxin;** agronomy, from University of Minnesota, \$88,392, “Characterization and Enhancement of Soybean Genetic Resources for Soilborne Disease Resistance.”

**MacDermid Wadsworth, Shelley and Sternberg, Martina M;** child development & family studies, from Be the Change, Inc, \$25,000, “Macy’s Got Your Six”

**Mason, Linda J;** entomology, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Mr. Khurran Mahmood Sultan Kamboh.”

**Mason, Linda J;** entomology, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Mr. Qurban Ali.”

**Mason, Linda J;** entomology, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Mr. Kazam Ali.”

**Mason, Linda J;** entomology, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Mr. Abdul Majid.”

**Mason, Linda J;** entomology, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Imran Faraz.”

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Seminis Vegetable Seeds, Inc., \$400, “Research for 1995 Vegetable Variety Trial Program.”

**Morris, Pamala V and McClure, Myron D;** agriculture – administration, from DuPont Pioneer, \$15,000, “Purdue Agribusiness Science Academy.”

**Nagy, Zoltan;** chemical engineering, from Eli Lilly and Company, \$20,000, “Control of Size Distribution of Pharmaceutical Crystals Using Controlled Growth and Dissolution Cycles in Batch and Continuous Crystallization Systems.”

**Newton, Jill A;** curriculum & instruction, from University of Southern Indiana, \$49,755, “Creating Algebra Teaching Communities for Hoosiers (CATCH).”

**Nielsen, Robert L;** agronomy, from Pioneer Hi-Bred International, Inc., \$500, “Corn & Soybean Production.”

**Oakes, William C;** engineering education, from Multi-Sponsored Industrials, \$36,000, “Engineering Projects in Community Service (EPICS).”

**Ortalan, Volkan;** materials engineering, from Arcelormittal USA, \$27,000, “Boron Segregation and its Effects.”

**Owens, Phillip R;** agronomy, from Adriana Ospina, \$12,500, “Multi-Sponsored.”

**Paarlberg, Philip L;** agricultural economics, from Kansas State University, \$2,750, “Economic Impact of Bovine Respiratory Disease in US Beef Cattle Feedlots Modeling Application and Review.”

**Pekarek, Steven D;** electrical & computer engineering, from Kohler Company, \$22,000, “Kohler – Student Assist.”

**Pekny, Joseph F;** chemical engineering, from US Russia Foundation, \$109,345, “The Yegor Gaidar Annual Leadership Program.” (a Discovery Park award — Burton D. Morgan Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from IMA, \$10,000, “IMA Life.” (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)

**Phillips, Rhonda G; Ankerberg, Joshua C; Ellett, Jodee K and Marshall, Maria I;** agricultural economics, agriculture – administration, from University of Minnesota, \$135,819, “Economic Viability of Shared-Use Kitchens in the North Central Region.”

**Plaut, Karen I;** agriculture – administration, from Indiana Corn Marketing Council, \$1,000,000, “Sponsorship Agreement Between Indiana Corn Marketing Council and Purdue University.”

**Plaut, Karen I;** agriculture – administration, from Indiana Corn Marketing Council, \$1,000,000, “Research Agreement Between Indiana Corn Marketing Council and Purdue University.”

**Plaut, Karen I;** agriculture – administration, from Indiana Soybean Alliance, \$1,000,000, “Sponsorship Agreement Between Indiana Soybean Alliance and Purdue University.”

**Plaut, Karen I;** agriculture – administration, from Indiana Soybean Alliance, \$1,000,000, “Research Agreement Between Indiana Soybean Alliance and Purdue University.”

**Pyrak-Nolte, Laura J;** physics, from Lawrence Berkeley National Laboratory, \$140,000, "Center for Nanoscale Controls on Geologic CO<sub>2</sub> (NCGC), Modification 1."

**Qiao, Li;** aeronautical & astronautical engineering, from Purdue University, \$25,000, "INCR: 14-15 Lab & University Core Facility Research Equipment Program: Dr. Qiao."

**Rainey, Katherine M and Thapa, Rima;** agronomy, from United Soybean Board, \$605,171, "High-Impact Public Research for Modified Carbohydrate Composition in U.S. (Year 3 of 3)."

**Rao, Sanjay G;** electrical & computer engineering, from Google Inc, \$47,500, "Google Network Management."

**Ratliff, Timothy L;** comparative pathobiology, from Carroll County Cancer Association, \$20,000, "Cancer Research."

**Reklaitis, Gintaras V; Taylor, Lynne S; Litster, James D and Wassgren, Carl R;** chemical engineering, industrial & physical pharmacy, mechanical engineering, from Rutgers State University, \$446,206, "Engineering Research Center on Structural Organic Composites."

**Rhoads, Jeffrey F;** mechanical engineering, from Whirlpool Corp, \$2,000, "Washer Vibration Analysis & Mitigation."

**Richards, Elizabeth A and McDonough, Meghan H;** nursing, health & kinesiology, from American Nurses Foundation, \$5,000, "Social and Environmental Context Influences on Physical Activity Motivation."

**Richmond, Douglas S;** entomology, from BASF Corporation, \$4,000, "Turfgrass Entomology Research."

**Rickus, Jenna L;** agricultural & biological engineering, from National Aeronautics and Space Administration, \$41,398, "Sporesat."

**Rozhon, Atina M;** field extension educators, from Jennings County Community Foundation, \$500, "Reading Made Fun."

**Rozhon, Atina M;** field extension educators, from Jennings County Community Foundation, \$500, "Reading Made Fun."

**Ruan, Xiulin and Lundstrom, Mark S;** mechanical engineering, electrical & computer engineering, from Defense Advanced Research Projects Agency, \$357,987, "First Principles-Based Predictive Design of Thermoelectric Materials Under Large Temperature Gradients, Modification P00001."

**Sadof, Clifford S;** entomology, from Rainbow Tree Company, \$3,000, "Multi-Sponsor."

**Sadof, Clifford S;** entomology, from Dow Agro Sciences, \$2,000, "Ornamental Insect Research."

**San Martin-Gonzalez, Maria F;** food science, from Sonoco Products Company, \$575, "Multi-Sponsor Gift Funds."

**Savage, Michael L;** WBAA, from Robert & Toni Bader Charitable Foundation, \$5,000, "Badar Grant."

**Schoenlein, William E;** biomedical engineering, from Cook Research Incorporated, \$50,466, "Pre-Clinical Device Testing Agreement; Studies CI-SPH2 CI-VZMD CUI-UVMD CCC-FTDV WCE-BVCF POC and Sentinels."

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

**Scott-Moncrieff, Joanna C;** veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$5,400, "ECC Residency Training Program."

**Seidl, Amanda H;** speech, language and hearing sciences, from Indiana Clinical & Translational Science Institute, \$19,638, "The Role of Caregiver Touch in Language Learning for Hearing Impaired Infants."

**Shalae, Vladimir M and Boltasseva, Alexandra;** electrical & computer engineering, from Stanford University, \$150,000, "Integrated Hybrid Nanophotonic Circuits; Amendment 7." (a Discovery Park award — Birck Nanotechnology Center)

**Shalae, Vladimir M; Boltasseva, Alexandra and Kildishev, Alexander V;** electrical & computer engineering, from US Army Research, Development and Engineering Command (RDECOM), \$275,000, "Flat Photonics with Metasurfaces." (a Discovery Park award — Birck Nanotechnology Center)

**Sheffield, John W;** Purdue Polytechnic Institute at Lafayette, from International Association for Hydrogen Energy, \$2,500, "Lahe Expenses."

**Shepson, Paul B;** earth & atmospheric sciences, from University of Southern California, \$77,250, "Airborne Microwave Observatory of Subcanopy and Subsurface (AirMOSS), Amendment 4."

**Singh, Manpreet;** food science, from Gina S. Rogers, DVM, \$50, "Multi-Sponsored Gift."

**Singh, Manpreet;** food science, from Earl L. Dunigan, \$50, "Multi-Sponsored Gift."

**Song, Xiaohui C;** academic technologies, from University of Illinois at Champaign-Urbana, \$40,000, "XSEDE: Extreme Science and Engineering Discovery Environment."

**Springer, John A;** computer & information technology, from Indiana University Purdue University at Indianapolis, \$17,435, "Virtual Tissue Bank Project, Phase 3."

**Stewart, Kara R;** animal sciences, from AB Agri Limited, \$1,620, "Swine Research."

**Stewart, Kara R;** animal sciences, from Phillip E. Temples, \$200, "Swine Research."

**Stewart, Kara R;** animal sciences, from AB Agri Limited, \$10,004, "Swine Research."

**Straw, Mark L;** animal sciences, from Agricultural Marketing Service, \$32,982, "Country of Origin Labeling (COOL) Retail Surveillance Activities."

**Swihart, Robert K and Berl, Jacob L;** forestry & natural resources, from University of Minnesota, \$9,879, "Functional Role of Native Rodents in Midwestern Agroecosystems: Unwanted Pests or Friendly Neighbors?."

**Swihart, Robert K;** forestry & natural resources, from Pike Lumber Co Inc, \$5,000, "Voluntary Support – Thousand Cankers."

**Swihart, Robert K;** forestry & natural resources, from Indiana Arborists Association, Inc., \$3,750, "Indiana Arborists Association, Inc."

**Taylor, Lynne S;** industrial & physical pharmacy, from Sawai Pharmaceutical Co Ltd, \$30,000, "Sawai Voluntary Support."

**Taylor, Lynne S;** industrial & physical pharmacy, from Merck Sharp & Dohme Corp, \$2,000, "Study of the Anti-Nucleation Properties and Physicochemical Interactions of Bile Surfactants with Supersaturated Active Pharmaceutical Ingredients."

**Turek, John J;** basic medical science, from Purdue University, \$12,650, "Feasibility Study of Biodynamic Imaging for Predicting Chemotherapeutic Response in Patients with Pancreatic or Esophageal Cancer."

**Tzempelikos, Athanasios;** civil engineering, from Kawneer Company Inc, \$30,000, "Kawneer Company Inc."

**Van Rijn, Richard M;** medicinal chemistry & molecular pharmacology, from Brain & Behavior Research Foundation, \$69,957, “Development of Novel Designer G-Protein Coupled Receptors to Study the Role of Beta-Arrestin2 Biased Signal Transduction in Anxiety Disorders.”

**Wachs, Juan P;** industrial engineering, from University of Denver, \$92,985, “Magnetic Resonance Imaging (MRI) Development: Human Avatars: Enabling Research in Natural Communication with Virtual Tutors, Therapists, and Robotic Companions, Amendment 2.”

**Wassgren, Carl R; Litster, James D and Nagy, Zoltan;** mechanical engineering, chemical engineering, from Rutgers State University, \$70,000, “Industry-University Ecosystem for Commercializing Pharmaceutical Process Modeling Capabilities for Continuous Manufacturing.”

**Webb, Kevin J and Xu, Xianfan;** electrical & computer engineering, mechanical engineering, from Air Force Office of Scientific Research, \$173,602, “Optomechanics with Nanostructured Materials.”

**Weiner, Andrew M;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$253,851, “Fast Multipath Characterization and Compensation for Mobile Ultrabroadband Radio-Frequency Signaling.”

**West, Terry R;** earth & atmospheric sciences, from A E G North Central Section, \$100, “AEG Travel.”

**Wetzstein, Hazel Y;** horticulture & landscape architecture, from Pom Wonderful LLC, \$38,000, “ Multi-Sponsored Gift Account.”

**Whittinghill, David M;** computer graphics technology, from Lafayette Urban Enterprise Association, Inc., \$8,758, “VR Simulation for 1st through 3rd Grade Children.”

**Williams, Rod N;** forestry & natural resources, from Indiana Department of Natural Resources, \$422,073, “Assessing Hellbender Habitat for Potential Reintroductions.”

**Wirth, Mary J;** chemistry, from Northwestern University, \$62,500, “National Resource for Translational and Developmental Proteomics.”

**Wise, Kiersten A;** botany & plant pathology, from Bayer Cropscience, \$33,400, “Voluntary Support Account.”

**Wise, Kiersten A;** botany & plant pathology, from Albaugh Inc, \$6,000, “Voluntary Support Account.”

**Wise, Kiersten A;** botany & plant pathology, from North Central Soybean Research Program, \$62,000, “Understanding the Role of Fungicide Programs on Soybean Health and Charcoal Rot Development – Year 2.”

**Wise, Kiersten A;** botany & plant pathology, from FMC Corporation, \$14,000, “Voluntary Support Account.”

**Yang, Won Sik;** nuclear engineering, from Korea Atomic Energy Research Institute, \$110, “Development of Deterministic Multi-Group Cross Section Generation Algorithm and Design Reviews of the Prototype Gen-IV Sodium-Cooled Fast Reactor.”

**Yang, Won Sik;** nuclear engineering, from Korea Atomic Energy Research Institute, \$263,877, “Software Verification and Validation Study of Rebus-3 Code.”

**Yeo, Yoon;** industrial & physical pharmacy, from University of Chicago, \$160,813, “Image-Guided Radiation-Induced Permeability (IGRIP) for IGDD.”

**Young, Bryan G;** botany & plant pathology, from Syngenta Crop Protection Inc., \$25,000, “ Multi-Sponsored Gift Account.”

**Young, Bryan G and Johnson, William G;** botany & plant pathology, from United Soybean Board, \$645,994, “Research to Integrate Best Management Practices for Glyphosate-Resistant Weeds in Soybean Production Systems (Year 1 of 3).”

**Young, Bryan G;** botany & plant pathology, from Brandt Consolidated, \$6,300, “ Multi-Sponsored Gift Account.”

**Young, Bryan G;** botany & plant pathology, from Rosens Inc, \$24,025, “ Multi-Sponsored Gift Account.”

**Zhang, Ruijian;** mathematics, computer science & statistics – Calumet campus, from Beulahworks LLC, \$1,990, “Software Design Internship Applying Metaedit+.”

**Zhou, Chenn Q and Wu, Bin;** Center for Innovation through Visualization & Simulation, from Mittal Steel Company, \$55,272, “Development of a Scheduling Optimization Model for Steel Slab Producing.”

**Zhuang, Qianlai;** earth & atmospheric sciences, from National Aeronautics and Space Administration, \$100,000, “Regional and Global Climate and Societal Impacts of Land-Use and Land-Cover Change in Northern Eurasia.”

**Zillich, Alan J; Kozak, Mary A; Jaynes, Heather A and Snyder, Margie E;** pharmacy practice, from PhRMA Foundation, \$56,465, “Reduced Hospital Readmissions through Improved Medication Adherence During Transitions of Care.” ■

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