

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

November 2013

Abrahamson, Kathleen A; nursing, from Indiana University, \$31,941, "Study of a State-Level Model for Transitioning Nursing Home Residents to the Community."

Ahmed, Azza H; nursing, from Kinley Trust, \$4,690, "Non-Laboratory Research Equipment."

Aime, Mary C and Toome, Merje; botany & plant pathology, from Indiana Academy of Science, \$2,235, "DNA Barcoding and Exploring the Current Biodiversity of Rust Fungi in Indiana."

Alam, Muhammad A; electrical & computer engineering, from Columbia University, \$173,339, "High Efficiency Nanosystems for Photovoltaics: Moving Beyond the Shockley-Queisser Limit; Amendment 5."

Alam, Muhammad A; electrical & computer engineering, from Texas Instruments, Inc., \$50,000, "Texas Instruments Gift."

Anderson, William E; Lucht, Robert P; Merkle, Charles L and Mongia, Hukam C; aeronautical & astronautical engineering, mechanical engineering, from National Aeronautics and Space Administration, \$54,441, "Integrated Physics-Based Modeling and Experiments For Improved Prediction of Combustion Dynamics in Low-Emission Systems."

Andrisani, Ourania M; basic medical science, from French Government, \$11,507, "Chateaubriand Fellowship — Ahmed Diab."

Appenzeller, Joerg and Datta, Supriyo; engineering administration engineering experiment, electrical & computer engineering, from University of California-Los Angeles, \$189,500, "FAME: Amendment 1 to Subcontract Agreement 0142SQA031." (a Discovery Park award — Birck Nanotechnology Center)

Appenzeller, Joerg; Chen, Zhihong and Klimeck, Gerhard; engineering administration engineering experiment, electrical & computer engineering, from University of Notre Dame, \$335,425, "LEAST; Modification 2; Grant 106424." (a Discovery Park award — Birck Nanotechnology Center)

Bajaj, Anil K; mechanical engineering, from Rolls-Royce Corporation, \$83,400, "Detection and Monitoring of Damage in Gear Drive Using Dynamic Torque Sensing."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$100, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$150, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Multi-Sponsored Industrials, \$1,000, "Instrumentation Van Project."

Beaulieu, Lionel J and Morrison, Edward F; agricultural economics, Office of Engagement, from Economic Development Administration, \$149,625, "Great Lakes Regional Training Initiative: an EDA University Centers Collaborative."

Beckley, Jeffrey A; mathematics, from Multi-Sponsored Industrials, \$1,000, "Multi-Sponsored."

Ben-Davies, Carol E; Dean of Students, from Indiana Campus Compact, \$710, "African Student Association - Indiana Campus Compact Grant."

Bhunja, Arun K; food science, from Embassy of the Arab Republic of Egypt, \$8,000, "Bench Fees - Maha Moahmed Usama."

Bouck, Emily C; educational studies, from Kinley Trust, \$1,804, "Non-Laboratory Research Infrastructure & Equipment Program."

Bouman, Charles A; electrical & computer engineering, from Northeastern University, \$129,000, "ATR for the Detection of Targets in Computed Tomography (CT) Baggage Scans."

Bouman, Charles A; electrical & computer engineering, from General Electric Company, \$108,033, "High Challenge Applications in Model-Based Computed Tomography (CT) Image Reconstruction."

Britsch, Susan J; curriculum & instruction, from Kinley Trust, \$1,473, "Digital Photography & Science for Early Childhood English Learners."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$1,000, "Apt Maintenance and Operations SPR-2351."

Byrn, Stephen R and Smith, Daniel T; industrial & physical pharmacy, from National Institute for Pharmaceutical Technology and Education, \$129,732, "Study on Evaluation of Drug Product Formulation In-Vitro Performance Characteristics Related to Abuse-Deterrence."

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

Cardella, Monica E; engineering education, from Science Museum of Mn, \$67,548, "Amendment No. 2 to Grant 105883 GSE/RES- Gender Research on Adult-child Discussions within Informal Engineering environments (GRADIENT)."

Caruthers, James M and Pipes, R Byron; chemical engineering, materials engineering, from Kazan National Research Technological University, \$4,500, "MOU Between Purdue University and Kazan National Research Technological University."

Catlin, Ann C; academic technologies, from Applied Research Associates, Inc, \$44,970, "Joplin Data Repository: Geospatial Enhancements and Web Interface."

Catlin, Ann C; academic technologies, from Yale University, \$49,018, "A Bioecological Pediatric HIV Disclosure Intervent in Ghana - Sankofa; Amendment 1, Grant 106395."

Chen, Weinong W; Tsutsui, Waterloo and Siegmund, Thomas H; aeronautical & astronautical engineering, mechanical engineering, from Advanced RES Projects Agency — Energy, \$500,000, "Crash Safety of Lithium-Ion Batteries."

Chen, Weinong W; aeronautical & astronautical engineering, from U.S. Army Research, Development and Engineering Command (RDECOM), \$58,000, "Dynamic Mechanical Properties of High-Performance Fibers; Delivery Order/Call No. 0005."

Cheng, Gary J; industrial engineering, from Purdue University, \$43,315, "Nano-Machine Shop: Scalable Manipulation of Multi-Dimension Nanostructures (Incr for Fee Remits & Fringes)."

Childress, Michael O; An, Ran; Nolte, David D and Turek, John J; veterinary clinical science, physics, basic medical science, from AKC Canine Health Foundation, Inc., \$12,733, "Application of Biodynamic Imaging for Personalized Chemotherapy in Canine Lymphoma: a Pilot Study."

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from Office of Naval Research, \$21,816, "Photo-Regulated DNA Nanomotors that Walk Along a Single-Walled Carbon Nanotube; Modification 7 for Grant 105330." (a Discovery Park — Bindley Bioscience Center)

Christmon, Kenneth C; diversity and multicultural affairs - fort wayne campus, from Indiana Commission for Higher Education, \$1,500, "Indiana ScholarCorps AmeriCorp Program 2013-14."

Collicott, Steven H and Heister, Stephen D; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$125,000, "Innovations in Understanding and Modeling Cryogenic Propellants for Long-Duration Spaceflight."

Connor, Robert J and Varma, Amit H; civil engineering, from American Institute of Steel Construction, Inc., \$40,000, "AISC Voluntary Support."

Connor, Robert J and Lloyd, Jason B; civil engineering, from Indiana Soybean Alliance, \$51,572, "Proposal for Field Instrumentation and Controlled Load Testing of Selected Steel Bridges Important to Indiana Soybean Alliance Strategic Planning."

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

Cooks, Robert G; chemistry, from Pfizer Inc, \$1,000, "Pfizer Analytical Chem Fellowship."

Cooks, Robert G; chemistry, from Pfizer Inc, \$1,000, "Pfizer Analytical Chem Fellowship."

Creswell, Tom C; botany & plant pathology, from Foreign Agricultural Service, \$25,935, "Bangladesh Laboratory Assessment and Capacity Building Trainings."

Davisson, Vincent J; medicinal chemistry & molecular pharmacology, from AsedaSciences GmbH, \$7,972, "Method Implementation for Intracellular Cell Markers."

De Hoop, Maarten V; mathematics, from Multi-Sponsored Industrials, \$80,000, "Geo-Mathematical Imaging Group (GMIG) Consortium."

De Hoop, Maarten V; mathematics, from Multi-Sponsored Industrials, \$80,000, "Geo-Mathematical Imaging Group (GMIG) Consortium."

Delaurentis, Daniel A; Bagchi, Saurabh; Heister, Stephen D and Crossley, William A; aeronautical & astronautical engineering, electrical & computer engineering, from Missile Defense Agency, \$160,000, "An Agent-Based Concept for an Enhanced Command and Control, Battle Management, and Communications (C2BMC) Architecture."

Delp, Edward J; electrical & computer engineering, from Indiana University Purdue University at Indianapolis, \$67,264, "Center for Advanced Renal Microscopic Analysis; Subaward in 4685579PU, Amendment 1, Grant 106315."

Deng, Xinyan; mechanical engineering, from Air Force Office of Scientific Research, \$147,131, "Flow Modulation and Force Control of Flapping Wings; Modification 2 for Grant 105391."

Emery, Nancy C and Albright, Nicolette C; botany & plant pathology, from Indiana Academy of Science, \$2,200, "Understanding Fruiting Body Development & the Mating System of Indiana Morels."

Feng, Qi; management, from Purdue University, \$23,751, "Development of Adaptive Data Driven Stochastic Modeling Approach & its Application to Strategic Supplier Sourcing Decisions (Incr for Fringes & Fee Remits)."

Fernandez-Juricic, Esteban; biological sciences, from Animal Plant Health Inspection Service, \$174,000, "A Novel Method to Minimize Bird Strikes through Onboard Lighting Systems."

Field, William E; agricultural & biological engineering, from National Institute of Food & Agriculture, \$162,000, "Indiana Agrability Project."

Field, William E; agricultural & biological engineering, from Tate & Lyle Ingredients Americas, Inc., \$7,500, "Farm Safety."

Field, William E; agricultural & biological engineering, from Kossuth Street Baptist Church, \$10,000, "Breaking New Ground."

Field, William E and Jones, Paul J; agricultural & biological engineering, from National Institute of Food & Agriculture, \$562,055, "National Agrability Project."

Fisher, Timothy; mechanical engineering, from Lockheed Martin Corp., \$64,152, "Application of Nanotechnologies to Advanced Missiles." (a Discovery Park award — Birk Nanotechnology Center)

Forbes, Beth A and Stewart-Burton, Jennifer S; agricultural communication, from Ohio State University, \$27,917, "Cooperative Venture to Develop a Joint Electronic News Service."

Frampton, Pam M; graduate studies in education — Calumet Campus, from Indiana Department of Education, \$101,009, "SUN-RISE: Students Using New and Real-Life Initiatives in Science Education; Amendment 1, Grant 206561."

Freeman, Jennifer L; health sciences, from Purdue University, \$36,415, "Role of Exposure to Environmental Chemical Stressors in Generation Spontaneous Copy Number Variants (CNVs) (Incr for Fringes & Fee Remits)."

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

Garcia Bravo, Jose M; Kokomo Statewide Technology, from Smart Reservoir, \$1,500, "Testing the Improvements in Contamination Control of Using a VVR Hydraulic System."

Garcia Bravo, Jose M; Kokomo Statewide Technology, from Dynsan, LLC, \$100,000, "Phase II: Application of Switching Valves to Improve Reliability of Fuelraulic Systems."

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

Garimella, Suresh V; mechanical engineering, from Multi-Sponsored Industrials, \$30,000, "Cooling Technologies Research Center (CTRC) 2012-2013 Membership — Memo Match for 106029."

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

Garrison, James L; aeronautical & astronautical engineering, from Jet Propulsion Laboratory, \$75,000, “Multi-Frequency Bistatic Reflectometry Using Signals of Opportunity (SoOps).”

Ghafoor, Arif; electrical & computer engineering, from Advanced Bioimaging, \$7,500, “Advanced Bioimaging Systems (ABS).”

Giannios, Dimitrios; physics, from Smithsonian Astrophysical Observatory, \$118,379, “Einstein Postdoctoral Fellowship — Maria Petropoulou.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$24,000, “Support for the ASCE Journal of Hydrologic Engineering.”

Groll, Eckhard A; mechanical engineering, from Air Squared Inc, \$17,000, “Multi-Sponsor Groll.”

Groll, Eckhard A; mechanical engineering, from Adams Communication & Engineering Technology, \$200,000, “Innovative Cooling Equipment for Military Environmental Control Units (ECU).”

Han, Qingyou; mechanical engineering technology, from Purdue University, \$29,571, “Ultrasonic Vibration Assisted ECAP for the Fabrication of Bulk Nanostructured Metals & Alloys (Incr. for Fee Remits & Fringes).”

Handwerker, Carol A; materials engineering, from Foresite Inc, \$10,000, “Tin Whisker Mitigation Technologies for SN-Based Surface Finishes on Electronic Assemblies and Microelectronic Devices.”

Hassanein, Ahmed and **Sizyuk, Valeryi**; nuclear engineering, from U.S. Department of Energy, \$950,000, “Integrated Prediction and Benchmarking of Material Damage and Lifetime Analysis During Major Plasma Instabilities in Fusion Devices.”

Hatasa, Kazumi; foreign language & literature, from Kinley Trust, \$4,995, “Investigating How Students Read Words Written in Katakana (Japanese Syllabary).”

Haviarova, Eva; forestry & natural resources, from Kinley Trust, \$15,651, “Tier 2 Proposal - Non-Laboratory Research Infrastructure and Equipment Program — SimaPro the LCA Software.”

Heeg, Marlene O; pharmacy — administration, from Given Imaging Inc, \$10,000, “2013 - 2014 Inflammatory Bowel Disease Educational Initiative.”

Heeg, Marlene O; pharmacy — administration, from Janssen Johnson & Johnson Services, Inc., \$55,000, “Psoriasis Clinical Review and Visiting Professorship Program.”

Heeg, Marlene O; pharmacy — administration, from Teva Pharmaceuticals, USA, \$50,000, “PeerView inExchange, the Present and Future of Individualized Management of Metastatic CRPC: Expert Perspectives on the Challenges, Opportunities and Practicalities (150202295).”

Heeg, Marlene O; pharmacy — administration, from Teva Pharmaceuticals, USA, \$5,000, “PeerView inExchange, the Present and Future of Individualized Management of Metastatic CRPC: Expert Perspectives on the Challenges, Opportunities and Practicalities (150202295).”

Heeg, Marlene O; pharmacy — administration, from Salix Pharmaceuticals, Inc., \$2,000,000, “2013-2014 Hepatology Centers of Educational Expertise He National Educational Initiative.”

Hertel, Thomas W; **Song, Xiaohui C**; **Viloria, Nelson B** and **Preckel, Paul V**; agricultural economics, academic technologies, from International Life Sciences Institute Research Foundation, \$162,739, “Developing Cyber-Infrastructure for Geoshare: Geospatial Open Source Hosting of Agriculture, Resource & Environmental Data for Discovery and Decision Making.”

Hertel, Thomas W; agricultural economics, from Stanford University, \$5,204, “Integrated Assessment of Climate Change with a Focus on Land, Water and Energy.”

Hibiki, Takashi and **Ishii, Mamoru**; nuclear engineering, from Institute of Nuclear Safety Systems, Inc, \$75,000, “Development of Full-Range Drift-Flux Model for Use in Thermal-Hydraulics Codes in Rod Bundle Geometries.”

Hill, Catherine A; entomology, from Purdue University, \$5,782, “Development of a Receptor-Mediated B-Arrestin Signaling Assay Platform Using Bimolecular Fluorescence Complementaiton (BiFC) (Incr for Fringes).”

Hooser, Stephen B; animal disease diagnostic laboratory, from PHS-Food and Drug Administration, \$16,500, “CVM Veterinary LRN Veterinary Diagnostic Laboratory Program.”

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

Howell, Kathleen; aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc, \$6,318, “National Aeronautics and Space Administration (NASA) Guidance, Navigation, and Control Technical Discipline Team (TDT); Purchase Order T00163; Revision 2.”

Huang, Chi-Hua; agronomy, from Agricultural Research Service, \$35,410, “Acquisition of Goods and Services.”

Hundley, Gregory S; management, from U.S. Department of Education, \$162,456, “Center for International Business Education and Research; Amendment 7 for Grant 104700.”

Ivantysynova, Monika; agricultural & biological engineering, from Liebherr Machines, \$17,458, “Generating of PSTI Gap Design Input Parameters for 16cc Hydraulic Motor.”

Ivantysynova, Monika; agricultural & biological engineering, from Hyundai Heavy Industries Co, \$179,600, “Modelling and Analysis of Swash Plate Type Axial Piston Pump/Motor.”

Jacobs, Douglass F; forestry & natural resources, from Indiana Department of Natural Resources, \$80,460, “Silvicultural Applications to Mitigate Animal Browse Damage of Forest Regeneration on Mine Reclamation Sites.”

Johnson, Samuel L; field extension educators, from Best Buy Childrens Foundation, \$5,000, “Allen County 4-H Robotics.”

Johnson, William G; botany & plant pathology, from University of Arkansas, \$80,000, “Management Solutions for Glyphosate-Resistant Pigweeds in Soybean Production Systems.”

Joly, Robert J; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$900, “Multi Sponsored Gift Account.”

Key, Nicole L and **Chen, Jun**; mechanical engineering, from National Aeronautics and Space Administration, \$157,774, “An Experimental Investigation of the Flow Physics Associated with End Wall Losses and Large Rotor Tip Clearances; Supplement 4 for Grant 105405.”

Kirkpatrick, Jane M; nursing, from Indiana State Department of Health, \$321,142, “Family Health Clinic of Carroll County: Increasing Access for Rural Populations Supplement.”

Klimeck, Gerhard; electrical & computer engineering, from Multi-Sponsored Industrials, \$75,000, “Network for Computational Nanotechnology (NCN) Membership.”

Klimeck, Gerhard; electrical & computer engineering, from Intel Corporation, \$126,000, “iNEMO Intel Discretionary.” (a Discovery Park award — Network for Computational Nanotechnology)

Klimeck, Gerhard and Strachan, Alejandro H; electrical & computer engineering, materials engineering, from University of California-Los Angeles, \$95,000, “Center of Function Accelerated Nanomaterial Engineering (FAME): Atomistic Modeling of RRAM Switching ; Amendment 1 to Subcontract Agreement No. 0142SQA032.” (a Discovery Park award — Network for Computational Nanotechnology)

Kokini, Jozef L; food science, from Alcoa Inc, \$1,500, “Food Science Research.”

La Lopa, Joseph M; hospitality & tourism, from Embassy of the Arab Republic of Egypt, \$8,854, “Funds for Yousry Kamel: Developing Tourism and Hospitality Course Contents in a Dynamic Era.”

Ladisch, Michael R and Ximenes, Eduardo A; agricultural & biological engineering, from General Mills, Inc., \$44,756, “Test Agreement on Food Characterization.”

Lechtenberg, Victor L; president, from Indiana Small Business Development Cent., \$32,000, “2013 Small Business Development Center (SBDC) Host Proposal for Southeast - Federal Funds.”

Li, Ninghui; computer science, from Samsung Electronics Co., Ltd, \$42,732, “Samsung on Data Privacy.”

Li, Ninghui and Proctor, Robert W; computer science, psychological science, from North Carolina State University, \$93,622, “Towards a Scientific Basis for User Centric Security Design.”

Liceaga, Andrea M; food science, from Multi-Sponsored Industrials, \$6,000, “Multi-Sponsored Gift- Sensory.”

Liceaga, Andrea M; food science, from Hinsdale Farms Ltd, \$3,022, “Sensory Evaluation Research.”

Lindsay, Ian C; anthropology, from Kinley Trust, \$17,861, “Funding Request for Archaeological Survey and Remote Sensing Equipment.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$6,100, “Multi-Sponsored Gift Account.”

Lopez, Roberto G; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$6,500, “Multi-Sponsored Gift Account.”

Love, David J; electrical & computer engineering, from Nokia Siemens Networks, \$20,000, “Nokia Siemens Gift.”

Mactermid Wadsworth, Shelley; child development & family studies, from Lilly Endowment Inc., \$2,357,075, “Mobilizing Innovation to Support Military and Veteran Families.”

Manfra, Michael J; physics, from Office of Naval Research, \$60,000, “Fault-Tolerant Topological Quantum Computing with 2D Electron Systems - Mod 4 for Grant 106378.” (a Discovery Park award — Birck Nanotechnology Center)

Mansfield, Charles W and Anderson, Joseph M; agronomy, from Kansas State University, \$2,500, “National Winter Canola Variety Trial.”

Martinez, Kimber J; youth development & agricultural education, from Indiana State Department of Health, \$77,000, “MESA: Multicultural Efforts to End Sexual Assault.”

McCullough, Bobby G; civil engineering, from Indiana Department of Transportation, \$3,800, “Truck Reporting Tool.”

McGlothlin, James D; health sciences, from Multi-Sponsored Industrials, \$7,000, “Ergonomics.”

Motevalli, Vahid; mechanical engineering technology, from Multi-Sponsored Industrials, \$50,000, “Center for Technology Development Consortium (CTD).”

Mudawar, Issam; mechanical engineering, from Paul C. Zmola (Indiv. Donor), \$250, “To Support Heat Transfer Research.”

Nachappa, Punya B; biology — fort wayne campus, from IN Academy of Science, \$2,970, “Dissecting the Ecological and Molecular Mechanisms Underlying the Interaction Between Soybean Plant, Soybean Aphid, and Soybean Mosaic Virus.”

Oakes, William C; engineering education, from Multi-Sponsored Industrials, \$5,000, “Engineering Projects in Community Service (EPICS).”

Ogg, James G; earth & atmospheric sciences, from Ogg, James E. & Betty Jane (Indiv Donor), \$50,000, “Digital Time Scale.”

Otto, Kevin J; biomedical engineering, from Defense Advanced Research Projects Agency, \$222,833, “Normal and Accelerated Failure Assessment of New Quantitative in Vitro and in Vivo Neural Interfaces; Modification 6; Grant 105205.”

Parker, Laurie L; medicinal chemistry & molecular pharmacology, from Purdue University, \$58,000, “Office of the Vice President for Research (OVPR) Bridge Funding: Devel-

opement of Assays for Measuring Tyrosine Kinase Activity in Living Tumor Cells.”

Patrick, Helen; educational studies, from Purdue University, \$35,577, “Incentive Grant II, Helen Partick, Incr for Fee Remits & Fringes, Evaluating Effective Teaching w/a Content-Independent Measure: Does the Subject Matter Make a Difference in Kindergarten?.” (a Discovery Park award — Discovery Learning Center)

Pekarek, Steven D and Decarlo, Raymond A; electrical & computer engineering, from Converteam Naval Systems, Inc, \$110,000, “Addendum 2 - Compact Power Conversion Technologies (CPCT) Onr Phase II Program Base Period [Grant 105611].”

Peroulis, Dimitrios; electrical & computer engineering, from IMA Life, \$8,300, “IMA LIFE.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$37,500, “Center for Electronic Defense Systems.”

Peroulis, Dimitrios; electrical & computer engineering, from IMA Life, \$8,300, “IMA LIFE.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from IMA Life, \$8,300, “IMA LIFE.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$37,500, “Center for Electronic Defense Systems.”

Peroulis, Dimitrios; electrical & computer engineering, from Flowserve Corp, \$7,000, “Flowserve.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Flowserve Corp, \$7,000, “Flowserve.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from American University of the Middle East, \$75,000, “Supporting the Undergraduate Program of the American University of the Middle East.” (a Discovery Park award — Birck Nanotechnology Center)

Pizlo, Zygmunt; psychological science, from Sandia National Laboratories, \$30,000, “Support from Sandia.”

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Strawn, Kirk, \$6,000, “AAE 535 Design Build Test.”

Pourpoint, Timothee L; Bane, Sally P and Heister, Stephen D; aeronautical & astronautical engineering, from Missile Defense Agency, \$53,000, “Unsteady Hydrodynamic Flows in Injector Passages and Combustion Characterization of Fine Hypergolic Sprays; Modification 4 for Grant 106238.”

Prabhakar, Sunil K; computer science, from Purdue Doctoral Program, \$20,573, “Oluwatimi, Oyindamola.”

Prabhakar, Sunil K; computer science, from The National GEM Consortium, \$16,000, “GEM Fellowship for J. Avery.”

Prabhakar, Sunil K; computer science, from Purdue Doctoral Program, \$2,052, “Lluwatimi, Oyindamola.”

Pratt, Brooke O; dental lab technician — Fort Wayne campus, from Foundation for Dental Lab Technology, \$5,000, “Foundation for Dental Laboratory Technology Keystone Grant 213.”

Preckel, Paul V; agricultural economics, from International Center for Agricultural Research in the Dry Areas, \$161,528, “Building a Bio-Economic Farm Household Model for Simulating the Impacts of Socio-Economic, Policy, Technological and Climate Changes in Vulnerable Areas of Jordan.”

Rainey, Katherine M; agronomy, from Dow Agro Sciences, \$50,801, “2013 Dow Agro Sciences Soyname Experiment.”

Ramdas, Anant K; physics, from Lilly Endowment Inc., \$1,000, “Farm Safety.”

Ramirez, Julio A; Eigenmann, Rudolf; Brophy, Sean; Hacker, Thomas J; Dyke, Shirley J; Pujol, Santiago; Bagchi, Saurabh and Irfanoglu, Ayhan; civil engineering, electrical & computer engineering, engineering education, computer & information technology, mechanical engineering, from National Science Foundation, \$15,000,000, “Network for Earthquake Engineering Simulation (NEES) Operations: FY2010-FY2014 - Increase - 104025.” (a Discovery Park award — Cyber Center)

Rao, Sanjay G; electrical & computer engineering, from Silicon Valley Community Foundation, \$45,000, “NetApp University Research Fund.”

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

Ratliff, Timothy L; Cancer Research Center, from Walther Cancer Institute Foundation Inc, \$50,000, “Center Directors Development Funds Award.”

Richmond, Douglas S; entomology, from Bayer Cropscience LP, \$16,000, “Turfgrass Entomology Research.”

Rodriguez, Jorge; physics, from Defense Threat Reduction Agency, \$145,064, “Ab-Initio & Semiempirical Investigation of Deinococcus Radiodurans Resistance to Ionizing & UV Radiation; Modification 2 for Grant 106339.”

Rossmann, Michael G; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$515,796, “Structural Studies of Bacteriophage T4.”

Sadof, Clifford S; entomology, from Purdue Extension Marion County, \$8,000, “Ornamental Insect Research.”

Saha, Shubin K; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$2,500, “Multi-Sponsored Gift Account.”

Sameh, Ahmed H; computer science, from Sandia National Laboratories, \$46,220, “Support for Deaglan Halligan from Sandia National Labs.”

Sameh, Ahmed H; computer science, from Army Research Office, \$100,000, “Parallel Sparse Linear System and Eigenvalue Problem Solvers: from Multicore to Petascale Computing; Modification 2 for Grant 105513.”

Sangid, Michael D; aeronautical & astronautical engineering, from Pacific Northwest National Laboratory, \$95,810, “Fiber Orientation and Length Measurements for Long-Carbon-Fiber Thermoplastic Structures.”

Schneider, Steven P; aeronautical & astronautical engineering, from Lockheed Martin Corp., \$100,000, “Increase to Grant 106530 Measurements of Hypersonic Instability and Transition in Two Mach-6 Wind Tunnels.”

Scott, David E; Indiana State Chemist, from Environmental Protection Agency, \$290,367, “FY 2014 EPA Pesticide Cooperative Agreement.”

Seleem, Mohamed; comparative pathobiology, from Purdue University, \$8,728, “Teaching an Old Dog a New Trick; Revealing Antimicrobial Mechanism of Action of Statins (Incr. for Fringes).”

Shakouri, Ali; electrical & computer engineering, from University of California (Santa Barbara) Foundation, \$157,166, “Center for Energy Efficient Materials; Amendment 1, Grant 106067.” (a Discovery Park award — Birck Nanotechnology Center)

Shalae, Vladimir M and Boltasseva, Alexandra; engineering administration engineering experiment, electrical & computer engineering, from Georgia State University, \$124,549, “Random Lasers, Nano-Spasers and Optical Rogue Waves.” (a Discovery Park award — Birck Nanotechnology Center)

Shipsey, Ian P; physics, from Fermi National Accelerator Laboratory, \$7,500, “FERMILAB: 2013 Travel Funds for Ian Shipsey-LPC Co-Leader.”

Shoffner, Melanie and Boche, Benjamin A; English, from Kinley Trust, \$5,000, “Examining the Intersections Between Literacy, Technology & Preservice English Teacher Development.”

Singh, Manpreet; food science, from Multi-Sponsored Industrials, \$50, “Multi-Sponsored Gift.”

Singh, Manpreet; food science, from Multi-Sponsored Industrials, \$15,750, “Multi-Sponsored Gift.”

Sivasankar, Preeti M; speech, language & hearing sciences, from Purdue University, \$36,189, “Respiratory & Laryngeal Phenotypes in Vocal Fatigue (Incr for Fee Remits & Fringes).”

Smith, Richard S; food science, from Alcoa Inc, \$1,500, “Food Science Research.”

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

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

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

Smith, Richard S; food science, from Hinsdale Farms Ltd, \$3,014, “Sensory Evaluation Research.”

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

Smith, Richard S; food science, from PHS-Food and Drug Administration, \$200,567, “Training and Pilot Processing Laboratory Services for Food Processing Technology Courses.”

Smith, Yvonne N; Student Access, Transition & Success Program, from Indiana Commission for Higher Education, \$1,500, “Indiana ScholarCorps AmeriCorps Program.”

Snyder, Margie E and Murawski, Matthew M; pharmacy practice, from Kinley Trust, \$18,420, “Office of the Vice President for Research (OVPR) Non-Laboratory Research Infrastructure and Equipment Grant Application.”

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

Spafford, Eugene H; computer science, from John Wiley & Sons Limited England, \$20,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

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

Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from Florida State University, \$317,000, “ESRDC Swampworks FY2013 Proposal: Purdue Efforts.”

Thompson, Elizabeth A; engineering — Fort Wayne campus, from Ball State University, \$12,343, “Parallel CUDA Implementation of Conflict Detection for Application to Airspace Deconfliction.”

Vansee, Lisa A; visual & performing arts, from Kinley Trust, \$17,500, “Interior Lighting Simulation Space.”

Varma, Amit H; civil engineering, from University of Buffalo, \$180,000, “Testing and Development of Regulatory Requirements for Steel Plate Concrete Steel Concrete (SC) Structures.”

Vaughn, Kevin J; anthropology, from Purdue University, \$6,884, “An Archaeological Analysis of the Emergence & Evolution of Ancient Pilgrimage Behavior (Incr. for Fringes).”

Vijaykumar, T N; electrical & computer engineering, from Google Inc, \$11,000, “Google Scalable.”

Volnec, Jeffrey J; Brouder, Sylvie M; Chaubey, Indrajeet; Martin, Chad A; Orvis, Kathryn S; Carroll, Natalie J; Johnson, Keith D and Turco, Ronald F; agronomy, agricultural & biological engineering, youth development & agricultural education, from Iowa State University, \$490,305, “Sustainable Production and Distribution of Bioenergy for the Central USA — Sustainability Budget-T1 Cultivar Evaluations.”

Watts, Val J; medicinal chemistry & molecular pharmacology, from Purdue University, \$4,483, “Development of a Receptor-Mediated B-Arrestin Signaling Assay Platform Using Biomolecular Fluorescence Complementation (BiFC) (Incr. for Fringes).”

Weaver, Connie M; foods & nutrition, from Multi-Sponsored Industrials, \$1,667, “Lallemant/American Yeast Gift.”

Weaver, Connie M; foods & nutrition, from Multi-Sponsored Industrials, \$1,667, “Lallemant/American Yeast Gift.”

Wei, Alexander; chemistry, from National Science Foundation, \$47,829, “AGEP Graduate Research Supplement for: Nucleation and Growth of Anisotropic Magnetic Nanostructures.”

Weiner, Andrew M; electrical & computer engineering, from Optical Society of America, \$1,250, “The Optical Society — Voluntary Support.”

Weiner, Andrew M; Qi, Minghao and Nari-manov, Evgueni E; electrical & computer engineering, from Air Force Office of Scientific Research, \$309,858, “Microresonator-Based Optical Frequency Combs: a Time Domain Perspective.”

Weller, Stephen C; horticulture & landscape architecture, from Indiana Institute for Global Health, \$15,696, “Collaborative Agriculture Program Between AMPATH and Purdue University.”

Weng, Hsin-Yi; Widmar, Nicole J and Croney, Candace C; comparative pathobiology, agricultural economics, animal sciences, from National Pork Board, \$143,243, “Animal Welfare Implications Resulting from Movement Restriction for Foreign Animal Disease Outbreak Management in the Pork Industry.”

West, Terry R; earth & atmospheric sciences, from Terry R. & Shirley West (Individual Donor), \$200, “AEG Travel.”

Whitford, Fred; botany & plant pathology, from Professional Landcare Network Inc, \$10,000, “Purdue Pesticide Programs.”

Whitford, Fred; botany & plant pathology, from Professional Landcare Network Inc, \$1,229, “Purdue Pesticide Programs.”

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$30,000, “Identifying and Attacking Themes in Marine Bioadhesion for Antifouling Coatings; Modification 2 for Grant 106388.”

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$14,497, “Biomimetic Design Principles for Underwater, Sustainable, and Modulus Tailored Adhesives; Modification 1 for Grant 106398.”

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$21,026, “Identifying and Attacking Themes in Marine Bioadhesion for Antifouling Coatings; Modification 1 for Grant 106388.”

Wuenschel, Christine L; visual & performing arts, from Kinley Trust, \$2,366, “Non-Laboratory Research Infrastructure and Equipment Program Tier 1.”

Xia, Yu; chemistry, from Purdue University, \$26,273, “Stereo-Structural Analysis of Glycans with Single-Sugar Resolution via Mass Spectrometry (Incr. for Fee Remits & Fringes).”

Xu, Jin-Rong; botany & plant pathology, from Purdue University, \$17,528, “The Regulatory Functions of PRP4 Kinase in RNA Splicing (Incr. for Fringes & Fee Remits).”

Yang, Won Sik; nuclear engineering, from Korea Atomic Energy Research Institute, \$174,000, “Development of Deterministic Multi-Group Cross Section Generation Algorithm and Design Reviews of the Prototype Gen-IV Sodium-Cooled Fast Reactor.”

Ye, Peide; electrical & computer engineering, from Semiconductor Research Corporation, \$120,000, “2D Valley-FET on Si Beyond “Moore.”” (a Discovery Park award — Birck Nanotechnology Center)

Yuan, Chongli and Liu, Julie C; chemical engineering, from Army Medical Research Acquisition Activity, \$145,336, “Development of a Diagnostic Tool to Detect DNA Methylation Biomarkers for Early-Stage Lung Cancer.”

Zahner, Sigrid K; visual & performing arts, from Kinley Trust, \$8,750, “Ceramic Glaze Decal Printer.”

Zollner, Patrick A and Day, Casey C; forestry & natural resources, from Indiana Academy of Science, \$926, “Competition and Resource Partitioning Among Three Coexisting Carnivores Inhabiting Indiana River Systems.” ■

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