

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

May 2016

Abel, Steven R; Ainslie, Paul J and Hicks, Jennifer L; Office of Engagement, from Indiana Department of Education, \$212,086, “Mathematics in Science, Technology and Engineering.”

Abel, Steven R; Ainslie, Paul J and Hicks, Jennifer L; Office of Engagement, from Central Indiana Corporate Partnership, \$675,518, “Indiana Science, Technology, Engineering and Mathematics (I-STEM) Resource Network.”

Abrahamson, Kathleen A; nursing, from Indiana State Department of Health, \$600,000, “Indiana Polypharmaceutical Reduction Project.”

Abu-Omar, Mahdi M; chemistry, from National Science Foundation, \$50,000, “Sustainable Manufacturing of Natural Vanillin.”

Agnew, Christopher R; psychological science, from Purdue Research Foundation (PRF) Summer Research Grants, \$19,913, “PSY - SRG.”

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, \$55,250, “National Renewable Energy Laboratory (NREL) 402717 Sub-contract No. XEJ-3-23225-01; Modification 7, Grant No. 106406.”

Alexeenko, Alina; aeronautical & astronautical engineering, from National Science Foundation, \$200,000, “PFI:AIR-TT: Microscale Gas Sensor for Process Monitoring and Control in Bio/Pharmaceutical Lyophilization.”

Almanza, Barbara A; hospitality & tourism, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “HTM - SRG.”

Anderson, William E; Heister, Stephen D; Pourpoint, Timothee L and Slabaugh, Carson D; aeronautical & astronautical engineering, from Georgia Institute of Technology, \$890,100, “Combustion Stability Tool Development, Amendment 1 (Grant 107782).”

Ardekani, Arezoo M; mechanical engineering, from University of Houston, \$150,000, “Role of Microbial Motility for Degradation of Dispersed Oil.”

Arling, Gregory W; nursing, from PHS-AHRQ Agency/Healthcare Research & Quality, \$129,712, “Study of a State-Level Model for Transitioning Nursing Home Residents to the Community.”

Armstrong, S D; English, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Bagchi, Saurabh; electrical & computer engineering, from National Science Foundation, \$16,000, “CI: NEW: Collaborative Research: Computer System Failure Data Repository to Enable Data-Driven Dependability.”

Bagchi, Saurabh; electrical & computer engineering, from National Science Foundation, \$16,000, “Computer Systems Research (CSR): Small: Diagnosing Performance and Correctness Errors in Parallel Applications at Large Scale.”

Baldwin, Michael E; earth & atmospheric sciences, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Baributsa, Dieudonne; entomology, from Catholic Relief Services, \$76,747, “Enhancing Seed and Grain Storage Capacity for Smallholder Farmers in Eastern Democratic Republic of Congo (North and South Kivu).”

Basaran, Osman A; chemical engineering, from Bausch & Lomb, Inc., \$135,300, “Fluid Mechanics of Vitreous Removal.”

Basaran, Osman A; chemical engineering, from Honeywell Inc., \$25,000, “Purdue Process Safety and Assurance Center(P2SAC).”

Beaman, Jean M and Brown, Nadia E; sociology, from University of Illinois at Champaign-Urbana, \$55,000, “Black Lives Matter: Racial Tensions and Police Violence in the Midwest in the 20th Century.”

Beaulieu, Lionel J; Office of Engagement, from Kootenay Empl Services Development Society, \$7,500, “Multi-Sponsored Account (Purdue Center for Regional Development [PCRD]).”

Beaulieu, Lionel J; field extension agents, from Valpo Chamber, \$2,500, “Northwest Regional CD Voluntary Support.”

Beaulieu, Lionel J; Office of Engagement, from Maher & Meher, \$6,000, “Multi-Sponsored Account (Purdue Center for Regional Development (PCRD)).”

Behrens, Sandra R; nursing — Calumet campus, from Indiana University, \$82,232, “Area Health Education Centers Point of Service Maintenance and Enhancement.”

Bellina, Matthew R; field extension agents, from St. Joseph County 4-H Fair, Inc., \$4,000, “St. Joseph 4-H Program Assistant Support.”

Bhave, Sunil A; electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, “Hybrid Strain Assisted Magneto-Electric Switching; Amendment 1; (Grant 208497).”

Bhunia, Arun K; food science, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Bigelow, Cale A; horticulture & landscape architecture, from United States Golf Association, \$7,000, “Putting Greens Research.”

Braile, Lawrence W; earth & atmospheric sciences, from Society of Exploration Geophysicists, \$10,000, “Support for SAGE (Summer of Applied Geophysical Experience) 2016.”

Bralts, Vincent F; agricultural & biological engineering, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Braun, James; civil engineering, from National Renewable Energy Laboratory, \$30,000, "Validation of Representative No-Touch Audit Software and Building/Grid Simulation Using Open Studio; Modification 1."

Braun, James E; mechanical engineering, from Whirlpool Corp, \$50,000, "Center for High Performance Buildings Membership Agreement - Whirlpool Corporation."

Braun, James E; mechanical engineering, from Bristol Compressors, Inc., \$25,000, "Center for High Performance Building Consortium."

Brower, Jeffrey E; philosophy, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Bullock, Darcy M; civil engineering, from Pennsylvania Department of Transportation, \$176,709, "Work Order Purdue University 001: Implementation of Probe Data Performance Measures."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$400,000, "Joint Transportation Research Program Operating Budget Request FY 2017."

Butzke, Christian E; food science, from Richard M. Harrington, \$5,000, "Wine Grape Program."

Buzon, Michele R; anthropology, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Buzzard, Gregory T; mathematics, from Winifred B. Bilsland Endowment, \$3,333, "Miller, Nicholas."

Buzzard, Gregory T; mathematics, from Purdue Research Foundation (PRF) Summer Research Grants, \$27,360, "MATH - SRG."

Buzzard, Gregory T; mathematics, from Winifred B. Bilsland Endowment, \$3,333, "Zhao, Yue."

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$400,000, "Indiana Space Grant Fellowship Program 2015-2018."

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$58,696, "Purdue Support of Basalt Program."

Camberato, James J; agronomy, from Pioneer Hi-Bred International, Inc., \$68,810, "Performance and Refinement of Nitrogen Fertilization Tools; Supplement 3 [Grant 207604]."

Campbell, Wayne W; foods & nutrition, from Victorian House Scones LLC, \$150, "Campbell Research Gift."

Campbell, Wayne W; foods & nutrition, from Grocery Manufacturers Association, \$250, "Campbell Research Gift."

Carvajal, Teresa M; agricultural & biological engineering, from Triclinic Labs Inc, \$8,185, "Multi-Sponsored Gift Fund."

Cassens, Daniel L; forestry & natural resources, from Smith Brothers of Berne, \$750, "Multi-Sponsored."

Chakravarty, Sugato; consumer science & retail, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, "CS/HHS - SRG."

Chandrasekar, Srinivasan and Trumble, Kevin P; industrial engineering, from National Science Foundation, \$349,200, "Direct in Situ Analysis of Surface Flow Fields in Deformation Processing of Lightweight Structural Metals."

Chaubey, Indrajeet; earth & atmospheric sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, "EAPS - SRG."

Chaubey, Indrajeet; earth & atmospheric sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$1,710, "EAPS - SRG."

Chen, Chien-Chung; mechanical engineering — Calumet campus, from Purdue University, \$10,400, "Identifying Effects of Protective Material on Material Properties of Biological Self-Healing Concrete."

Chen, Weinong W; aeronautical & astronautical engineering, from University of Delaware, \$62,807, "High-Rate Multi-Scale Characterization of Polymers and Composites; Amendment 1 (Grant 107636)."

Chen, Zesheng; computer science - Fort Wayne campus, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Cheng, Ji-Xin; biomedical engineering, from PHS-NIH National Heart, Lung & Blood Institute, \$478,226, "In Vivo Photoacoustic Sensing of Lipid Laden Plaque."

Chmielewski, Jean A; chemistry, from National Science Foundation, \$460,000, "Hierarchical Assembly of Peptide Motifs."

Cho, Hyunyi and Zhu, Yu Michael; liberal arts — administration, statistics, from PHS-NIH National Cancer Institute, \$320,736, "Media Literacy Intervention for Indoor Tanning Prevention."

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from National Science Foundation, \$5,000, "Research Experience for Undergraduates (REU) Supplemental Understanding DNA-Graphene Interaction Towards Scalable Nanomanufacturing."

Christ, Sharon L; child development & family studies, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Christie, Mark R; biological sciences, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Chun, Hyonho; statistics, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Clawson, Rosalee A; political science, from Purdue Research Foundation (PRF) Summer Research Grants, \$14,935, "POL - SRG."

Cooks, Robert G; chemistry, from Jere T. Koskinen, \$1,000, "Chemistry Research."

Cooks, Robert G; chemistry, from ConocoPhillips, \$10,000, "Conoco Phillips." (a Discovery Park award — Bindley Bioscience Center)

Cooks, Robert G; chemistry, from U.S. Department of Energy, \$189,449, "Charged Microdroplets in Air: Characterization and Use in Surface Functionalization & Nanomaterials Preparation." (a Discovery Park award — Bindley Bioscience Center)

Crawford, Melba M; engineering administration engineering experiment, from National Institute of Standards & Technology, \$9,100, "NIST Summer Undergraduate Research Fellowship Program - Boulder."

Crawford, Melba M; engineering administration engineering experiment, from National Institute of Standards & Technology, \$28,130, "NIST Summer Undergraduate Research Fellowship Program — Gaithersburg."

Crossley, William A; Johnson, Mary E; Kilaz, Gozdem and Landry, Steven J; aeronautical & astronautical engineering, aviation technology, school of engineering technology, industrial engineering, from Federal Aviation Administration, \$40,930, "Project #19: Center of Excellence Student Outreach."

Cutter, Ellen A; public environmental affairs — Fort Wayne campus, from Orthopedics Capital Foundation, Inc., \$26,050, "The Orthopedic Industry in Indiana."

Dai, Mingji; chemistry, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Datchev, Kiril; mathematics, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Davisson, Vincent J and Wendt, Michael K; medicinal chemistry & molecular pharmacology, from Purdue University, \$30,000, "Synthetic Lethal Antagonist Combinations Targeting DNA Repair Protein Interactions."

Deering, Amanda J; food science, from Clabber Girl, \$200, "Multi-Sponsored Gift Account."

DeLaurentis, Daniel A and Bagchi, Saorabh; aeronautical & astronautical engineering, electrical & computer engineering, from Missile Defense Agency, \$150,000, "System of Systems Modeling and Analysis Innovations for Enhanced Bmds Architectures; Modification 2."

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; Amendment F."

Delgado, Michael S; agricultural economics, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Delp, Edward J; electrical & computer engineering, from Air Force Research Laboratory, \$1,178,772, "Media Forensics Integrity Analytics."

Doerge, Rebecca W; statistics, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,260, "STAT - SRG."

Donkin, Shawn S; Ajuwon, Kolapo; Anderson, Theresa M; Gitau, Margaret W; Gowher, Humaira; Hart, Orla M; Morris, Pamala V; Rickus, Jenna L; Solomon, Kevin V; McClure, Myron D and Parker, Loran C; agriculture — administration, animal sciences, agricultural & biological engineering, biochemistry, from Purdue University, \$149,260, "Diversity Transformation: Building Partnerships with Historically Black Colleges and Universities: Graduate Faculty Diversity Ambassador Program."

Dunning, John B; forestry & natural resources, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Duran, Angelica A; comparative literature, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Egel, Daniel S; botany & plant pathology, from Glades Crop Care Inc, \$100, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from German American Bancorp, \$250, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Gregory A Anthis, \$400, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Kietzer Farm, Inc, \$100, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Steven P. Mroczkiewicz, \$150, "Potassium Management."

Eigenmann, Rudolf; electrical & computer engineering, from National Science Foundation, \$228,299, "Intergovernmental Personnel Assignment (IPA) Extension for Rudolf Eigenmann."

Einwohner, Rachel L; sociology, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Elliott, Julie L; earth & atmospheric sciences, from National Science Foundation, \$57,206, "Geodetic Characterization of the Easternmost Alaska Subduction Zone."

Engel, Bernard A; agricultural & biological engineering, from Agricultural Research Service, \$5,000, "10th International Symposium on Agriculture and the Environment (Agroenviron 2016)."

Engelberth, Abigail S; agricultural & biological engineering, from Environmental Protection Agency, \$51,000, "EPA Star Fellowship Raymond Redcorn."

Erk, Kendra A; materials engineering, from National Science Foundation, \$5,000, "Research Experience for Undergraduates (REU) Supplement — Faculty Early Career Development (CAREER): Water-Based Gels Containing Polymer and Cement-Like Particles for Improved Curing of High-Performance Concrete."

Eugster, Patrick T; computer science, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Evans, Nicole C; biological sciences — Calumet campus, from Purdue University, \$10,400, "Analysis of Long Range Gene Regulation in *Drosophila*."

Farkas, Brian E; food science, from Brewers of Indiana Guilds, Inc, \$25,000, "Multi-Sponsored Gift Fermentation."

Felisberto Martins Ribeiro, Bruno; computer science, from Raytheon, \$46,006, "Discovering Network Processes in Time-Evolving Networks."

Ferraro, Kenneth F; sociology, from Ross Graduate Fellowship/Assistantship, \$7,529, "Hastings, Kia."

Ferraro, Kenneth F; sociology, from PHS-NIH National Institute on Aging, \$197,219, "Childhood Misfortune and Adult Health Among Black, White, and Hispanic Americans."

Ferrol, Christina E; field extension agents, from Central Indiana Community Foundation, \$7,500, "Summer Youth Program 2016."

Filley, Timothy R and Chaubey, Indrajeet; earth & atmospheric sciences, from University of Illinois at Champaign-Urbana, \$103,706, "Critical Zone Observatory for Intensively Managed Landscapes (IMLCZO), Amendment 3; (Grant 106743)."

Finke, Linda M; health & human services — Fort Wayne campus, from Indiana Family Health Council, \$229,745, "Lafayette Street Family Health Clinic Title X."

Fouche, Rayvon D; interdisciplinary studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$9,957, "AMST- SRG."

Fouche, Rayvon D and Vostral, Sharra L; American studies, history, from University of Illinois at Champaign-Urbana, \$12,033, "Collaborative Innovation and the Global Midwest: Inter-Disciplinary Design and Envisioning Prairie Futures."

Frankenberger, Jane R; Bowling, Laura C; Engel, Bernard A; Kladvik, Eileen J and Prokopy, Linda S; agricultural & biological engineering, agronomy, forestry & natural resources, from National Institute of Food & Agriculture, \$999,225, “Managing Water for Increased Resiliency of Drained Agricultural Landscapes.”

Frazier, Denise K; education, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Freeman, Lynetta; veterinary clinical science, from Sintact Medical Systems, \$23,793, “Evaluation of Proprietary Polymer for Adhesion Prevention.”

Garimella, Suresh V; mechanical engineering, from Purdue University, \$20,800, “FY16-17 Purdue Research Foundation (PRF) SFG (Summer Faculty Grant).”

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

Garimella, Suresh V; mechanical engineering, from Purdue University, \$41,600, “FY16-17 Purdue Research Foundation (PRF) SFG (Summer Faculty Grant).”

Garimella, Suresh V; executive vice president for research, from Purdue University, \$18,870, “1617 Purdue Research Foundation (PRF) Indiana University Purdue University at Indianapolis (IUPUI) E/T.”

Garimella, Suresh V; executive vice president for research, from Purdue University, \$18,870, “FY16-17 Purdue Research Foundation (PRF) Indiana University Purdue University at Indianapolis (IUPUI) Science.”

Garner, Allen L; nuclear engineering, from Office of Naval Research, \$10,000, “Conference Grant Proposal for 2016 Institute of Electrical and Electronics Engineers (IEEE) IPMHVCc.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$86,808, “Assimilation of Global Navigation Satellite System (GNSS)-R Delay-Doppler Maps into Hurricane Models.”

Gaskill, Brianna N; comparative pathobiology, from University Federation for Animal Welfare, \$4,576, “Sleep Fragmentation and Analgesic Effects on Wound Healing in Laboratory Mice.”

Gaskill, Brianna N; comparative pathobiology, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Geahlen, Robert L; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$329,791, “Tyrosine Kinases and Lymphocyte Activation.”

Gepner, David J; mathematics, from National Science Foundation, \$51,369, “Motives, Geometry, and Higher Category Theory.”

Gerber, Corey K; agronomy, from Crop Protection Services, \$4,375, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Growmark, Inc., \$6,563, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Association of Prof Crop Consultants, \$1,875, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Seed Trade Association, \$3,750, “Crop Diagnostic Training and Research Center.”

Giannios, Dimitrios; physics, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Gielda, Lindsay M; biological sciences — Calumet campus, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Gleich, David F; computer science, from National Science Foundation, \$97,730, “Faculty Early Career Development (CAREER): Modern Numerical Matrix Methods for Network and Graph Computations.”

Goergen, Craig J; biomedical engineering, from Chappelle, \$3,577, “Adelsperger, Amelia R.”

Goni Cortes, Joaquin; industrial engineering, from Indiana University, \$55,243, “Statistical Models for Multi-Modal Brain Imaging Studies of HIV-Associated Cognitive Decline.”

Greene, Christopher H; physics, from U.S. Department of Energy, \$145,000, “Physics of Correlated Systems.”

Grigorescu, Elena; computer science, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Groll, Eckhard A; mechanical engineering, from Air Squared, \$33,753, “Organic Rankine Cycle as a Bottoming Cycle for Waste Heat Recovery from Internal Combustion Engines.”

Gruenbaum, Ellen R; anthropology, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Gruenbaum, Ellen R; anthropology, from Purdue Doctoral Program, \$21,462, “Gonzalez, Melinda.”

Gruenbaum, Ellen R; anthropology, from Purdue Doctoral Program, \$21,462, “Gonzalez, Melinda.”

Gruenbaum, Ellen R; anthropology, from Purdue Research Foundation (PRF) Summer Research Grants, \$9,957, “ANTR - SRG.”

Guan, Wenjing; horticulture & landscape architecture, from Steve Coffey, \$300, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Seedway, \$600, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Known-You-Seed Co. LTD, Taiwan, \$1,500, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Bayer CropScience, \$1,000, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Clifton Seed Company, \$1,000, “Chris Gunter General Research Activities.”

Gunduz, Ibrahim E and Pourpoint, Timothy L; mechanical engineering, aeronautical & astronautical engineering, from Purdue University, \$56,255, “Image Intensifier for Combustion, Detonation and Fluid Dynamics Experiments.”

Gutmann, Michelle L and Kluender, Keith R; speech, language and hearing sciences, from Barron Associates, \$38,278, “Blink-Based Communication System for People in Bed.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$150,000, “2015- 2016 Local Technical Assistance Program Work Plan & Budget.”

Hall, Mark C and Paula, Stefan; biochemistry, from Summer Science Program, \$47,189, “Summer Science Program in Biochemistry.”

Hamaker, Bruce R; food science, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Han, Bumsoo and Konieczny, Stephen F; mechanical engineering, biological sciences, from Purdue University, \$10,000, "Fibronectin-Mediated Cancer-Associated Fibroblast Mechanics of Pancreatic Cancer."

Hao, Qing; mechanical & industrial engineering technology — Fort Wayne campus, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Hartman, Nathan W; computer graphics technology, from Rockwell Collins, \$50,000, "Product Lifecycle Management Center of Excellence (Product Lifecycle Management [PLM])."

Hartman, Nathan W; computer graphics technology, from Cummins, Inc., \$50,000, "Product Lifecycle Management Center of Excellence (Product Lifecycle Management [PLM])."

Hartman, Nathan W; computer graphics technology, from Procter & Gamble Company, \$50,000, "Product Lifecycle Management Center of Excellence (PLM)."

Hazbun, Tony R; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, "MCPH - SRG"

Hazbun, Tony R; medicinal chemistry & molecular pharmacology, from Purdue University, \$29,130, "16-17 Center for Cancer Research Si."

Heeg, Marlene O; pharmacy — administration, from American Regent, \$498,687, "Precision Medicine and Novel Therapeutics in IBD – National Symposia Series."

Heeg, Marlene O; pharmacy — administration, from Janssen Scientific Affairs, \$30,000, "2016 Arthros City Rounds Series."

Heeg, Marlene O; pharmacy — administration, from Janssen Scientific Affairs, \$498,687, "Precision Medicine and Novel Therapeutics in IBD – National Symposia Series."

Heeg, Marlene O; pharmacy — administration, from Shire Pharmaceuticals, \$418,027, "Ocular Surface Diseases, Disorders, and Dysfunctions Consults."

Heeg, Marlene O; pharmacy — administration, from Takeda Pharmaceutical International Inc US Region, \$50,000, "2015 GIHF National Inflammatory Bowel Disease Educational Initiative."

Heeg, Marlene O; pharmacy — administration, from Alkermes, Inc., \$79,387, "Opioid Use Disorder."

Henderson, Jason R and Huetteman, Julie K; agriculture — administration, from University of Wisconsin-Madison, \$8,000, "Building Capacity and Quality in Program Development and Evaluation."

Henry, Madeleine M; foreign language & literature, from Purdue Research Foundation (PRF) Summer Research Grants, \$29,870, "LGCL - SRG."

Hertel, Thomas W; agricultural economics, from Centre Detudes Prosp Et Dinfo International, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

Hirsch, Andrew J; food science, from Purdue Research Foundation (PRF) Summer Research Grants, \$15,390, "PHYS - SRG."

Hoffman, Aaron M; political science, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Hogenesch, Harm; comparative pathobiology, from Chemtrade Logistics, \$9,707, "Adsorption of Serum Proteins to Aluminum Hydroxide Adjuvants."

Hook, Tomas O; Miller, Brian K and Stein, Sarah R; forestry & natural resources, from University of Illinois, \$55,150, "Knauss Fellowship Application-Sarah Stein."

Hu, Changdeng and Ratliff, Timothy L; medicinal chemistry & molecular pharmacology, comparative pathobiology, from Purdue University, \$30,000, "PRMT5 in Prostate Cancer Development, Progression, and Therapy Response."

Hua, Inez; civil engineering, from Purdue Doctoral Program, \$31,804, "Frost, Kali."

Hurt, R D; history, from Purdue Research Foundation (PRF) Summer Research Grants, \$14,935, "HIST - SRG."

Hwang, Inseok; aeronautical & astronautical engineering, from Optimal Synthesis Inc, \$100,000, "Intent-Based Data Mining for Identifying and Classifying Conflict Detection and Resolutions from Historical Aircraft Track."

Idrissi Alami, Ahmed; foreign language & literature, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Irudayaraj, Joseph M; agricultural & biological engineering, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$62,000, "Post-CHF Heat Transfer at High Pressure and Flow Conditions: Experimental Support for TRACE Model Development."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$18,209, "Post-CHF Heat Transfer at High Pressure and Flow Conditions: Experimental Support for TRACE Model Development."

Iyer-Pascuzzi, Anjali; botany & plant pathology, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Jacobs, Douglass F; forestry & natural resources, from Lincoln Hills Rc&D Forestry Comm, \$350, "Voluntary Support - American Chestnut."

Jacobs, Douglass F; forestry & natural resources, from U.S. Forest Service, \$125,000, "Hardwood Tree Improvement and Regeneration Center."

Jacobs, Douglass F; forestry & natural resources, from Bruce Wakeland, \$2,000, "Voluntary Support — American Chestnut."

Jacobs, Douglass F; forestry & natural resources, from Bryan or Vickie Wiperman, \$2,000, "Voluntary Support — American Chestnut."

Jafvert, Chad T; civil engineering, from Ross Graduate Fellowship/Assistantship, \$29,294, "Maiyo, John."

Jiao, Dan; electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, "Accurate and Efficient Signaling Analysis of Non-Linear Circuits and Systems, Amendment 1 (Grant 208464)."

Johnson, David R; materials engineering, from Questech Innovations LLC, \$4,000, "Directional Solidification of Fe-Ni-Cr Alloys."

Johnson, Jennifer L; anthropology, from Purdue University, \$29,130, "FY16-17 Purdue Research Foundation (PRF) Research Grant."

Johnson, Jennifer L; anthropology, from Purdue University, \$35,000, "Fishwork: the Life and Death of Lake Victoria."

Johnson, Mary E; aviation technology, from Purdue University, \$97,935, "15-16 Laboratory & University Core Facility Research Equipment Program: Aircraft Emissions Equipment."

Johnson, William G and **Young, Bryan G**; botany & plant pathology, from Bayer Crop-science, \$10,000, “Bayer Testing Agreement.”

Johnson, William G and **Young, Bryan G**; botany & plant pathology, from Dow Agro Sciences, \$5,500, “Dow Quelex Weed Biology and Management.”

Johnson, William G; botany & plant pathology, from FMC Corporation, \$6,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Syngenta Crop Protection Inc., \$19,000, “Weed Science Research Voluntary Support.”

Johnston, Cliff T; agronomy, from Pioneer Oil Company, \$69,000, “EOR Research Lab Director (Cliff Johnston); Amendment 2.”

Johnston, Cliff T and **Ridgway, Kenneth D**; agronomy, earth & atmospheric sciences, from Pioneer Oil Company, \$182,062, “Reservoir Characterization of Selected Hydrocarbon Fields in the Illinois Basin: Integration of a Geologic Framework into Chemically Enhanced Oil Recovery.”

Jones, Timothy M; physics, from University of Notre Dame, \$3,250, “QuarkNet at Purdue University.”

Kasinski, Andrea L; biological sciences, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Kenttamaa, Hilkka I and **Cooks, Robert G**; chemistry, from ConocoPhillips, \$10,000, “Mass Spectrometric Characterization of Wax Samples.”

Kim, Beomjin; computer science — Fort Wayne campus, from Parkview Health, \$22,724, “Construction of Stroke Order Set Reporting System Enhanced with Visual Analytics Tools; Amendment 1.”

Kim, Yeong E; physics, from Industrial Heat LLC, \$469,327, “Low-Energy Nuclear Reaction Research (LENRR).”

Kim, Yuan H; animal sciences, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Kirkpatrick, Jane M; nursing, from Health Resources & Services Administration, \$1,445,032, “Health Center Cluster.”

Klein-Pejsova, Rebekah A; history, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Klimeck, Gerhard; electrical & computer engineering, from Purdue University, \$585,596, “C-Primed 15-16 and 14-15 Deferred.” (a Discovery Park award — Network for Computational Nanotechnology.)

Koltick, David S; physics, from Advanced Physics Technologies, \$6,850, “Koltick Voluntary Support.”

Konieczny, Stephen F; biological sciences, from PHS-NIH National Cancer Institute, \$312,577, “Kras-Induced Cellular Plasticity in Pancreatic Cancer.”

Kramer, Rebecca K; mechanical engineering, from Air Force Office of Scientific Research, \$120,715, “Reconfigurable and Variable Stiffness Materials for Turtle-Inspired Amphibious Locomotion.”

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

Lang, Rafael F; physics, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Lee, Linda S; agronomy, from U.S. Department of Defense, \$200,610, “Quantification of in Situ Chemical Reductive Defluorination (ISCRD) of Perfluoroalkyl Compounds I.”

Lelievre, Sophie A; basic medical science, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “BMS - SRG.”

Lempert, Laszlo; mathematics, from National Science Foundation, \$97,579, “Complex Analysis and Geometry.”

Levine, Michael; statistics, from Purdue University, \$53,217, “Research Refresh Award: Heteroscedasticity in High-Dimensional Models.”

Li, Ninghui; computer science, from Indiana University, \$76,838, “Correct Enforcement of Access Control Policy in Modern Operating Systems.”

Li, Ninghui; computer science, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Liceaga, Andrea M; food science, from Maplehurst Bakeries Inc., \$1,000, “Multi-Sponsored Gift - Sensory.”

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

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

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$1,500, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$4,020, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Maplehurst Bakeries Inc., \$2,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Bay Valley Foods LLC, \$1,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$2,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Turkey Hill Dairy, \$1,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Maple Leaf Farms Inc., \$1,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Monogram Food Solutions Inc, \$3,000, “Multi-Sponsored Gift - Sensory.”

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$1,000, “Multi-Sponsored Gift - Sensory.”

Lie, Victor D; mathematics, from National Science Foundation, \$113,935, “Topics in Harmonic Analysis: Interplay Between Time-Frequency Analysis, Additive Combinatorics and PDE.”

Lifton, Nathaniel A; earth & atmospheric sciences, from University of Southern California, \$26,054, “Collaborative Research - Testing for Slip Rate Changes on the Sierra Madre Fault.”

Light, Michael T; sociology, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Lill, Markus A; medicinal chemistry & molecular pharmacology, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Lin, Xiaozhu; electrical & computer engineering, from Google Inc, \$42,743, “Google Voluntary Support.”

Lindsay, Ian C; anthropology, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Linebarger, Deborah L; child development & family studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “HDFS - SRG.”

Linnes, Jacqueline C and **Chiu, George T;** biomedical engineering, mechanical engineering, from Bill & Melinda Gates Foundation, \$100,000, “Ultra-Low Cost Point-of-Care Nucleic Acid Diagnostic Platform.”

Lipton, Mark A; chemistry, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Liu, Zhongming; biomedical engineering, from PHS-NIH National Institute of Mental Health, \$465,680, “MultiModal Hyperspectral Imaging of Brain Activity and Connectivity.”

Loew, Tamara F; recreation & wellness, from National Collegiate Athletic Association, \$29,163, “The Gold Standard.”

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

Low, Philip S; chemistry, from University of Pennsylvania, \$55,800, “Near Infrared Intraoperative Molecular Imaging of Lung Adenocarcinoma.” (a Discovery Park award — Purdue Institute for Drug Discovery)

Lu, Yung-Hsiang; electrical & computer engineering, from Xilinx Inc, \$4,000, “Institute of Electrical and Electronics Engineers (IEEE) Voluntary Support.”

Luke, Eileen M; CERIS, from Animal Plant Health Inspection Service, \$384,529, “Cooperative Agricultural Pest Survey Information Services (Capsis) FY16.”

Lyon, Angeline M; chemistry, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

MacDermid Wadsworth, Shelley; child development & family studies, from Annie E. Casey Foundation, \$14,000, “The Family Impact Seminars: Building Evidence-Based, Family-Focused Foster Care Policy.”

Manfra, Michael J; physics, from University of Sydney, \$75,948, “Enhanced Readout Performance for Quantum DOT Spin Qubits (Grant 107028).”

Manfra, Michael J; Agrawal, Rakesh; Diaz Rivas, Rosa E and **Marinero-Caceres, Esteban E;** electrical & computer engineering, chemical engineering, physics, materials engineering, from Purdue University, \$98,000, “Acquisition of Low-Energy Precision Ion Polishign System for Fine Thinning and Cleaning of Tem Samples.”

Marais, Karen; aeronautical & astronautical engineering, from Federal Aviation Administration, \$28,716, “Project #20: General Aviation Runway Incursions.”

Marion Suiseeya, Kimberly R; political science, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Mason, Linda J; graduate school administration, from The Agribusiness Council of Indiana, \$5,220, “Urban and Industrial Pest Management Research.”

Matson, Eric T; Smith, Anthony H and **Springer, John A;** computer & information technology, from Chungnam National University, \$156,000, “Chungnam-Purdue National Center for Excellence in Software Program 2017.”

Matson, Eric T; Min, Byung-Cheol and **Smith, Anthony H;** computer & information technology, from Kyungpook National University, \$45,426, “Kyungpook National-LITP-Purdue Summer Software Program..”

Matson, Eric T; Min, Byung-Cheol and **Springer, John A;** computer & information technology, from Sejong University, \$89,999, “Sejong-Purdue Program 2016.”

Mattoo, Seema; biological sciences, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Mattson, Marifran; communication, from Purdue Research Foundation (PRF) Summer Research Grants, \$14,935, “COMU - SRG.”

McCann, Maureen C; Dietz, James E and **Sharma, Pankaj;** biological sciences, computer & information technology, from Office of Naval Research, \$199,505, “Power and Energy: a Science, Technology, Engineering & Mathematics (STEM) Program to Inspire Leadership in S and T for the Workforce of the Future Fleet.” (a Discovery Park award — the Energy Center)

McCullouch, Bobby G and **Chun, Hyonho;** construction engineering & management, statistics, from Indiana Department of Transportation, \$62,802, “MEPDG Implementation (Validation/Model Calibration/Acceptable Distress Target/IRI Failure Trigger/Thermal Selection/Binder Selection) and Climatic Data Generation MEPDG Implementation (Validation/Modification).”

Mengiste, Tesfaye D; botany & plant pathology, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Mikhail, Maged B; engineering technology — Calumet campus, from Purdue University, \$10,400, “Navigation Software System Development for a Mobile Robot to Avoid Obstacles in a Dynamic Environment.”

Miller, Jeffrey T; chemical engineering, from Argonne National Laboratory, \$20,000, “X-Ray Absorption Studies of Nrel Catalysts; Modification 2.”

Miller, Jeremy K; mathematics, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Mohammed, Sulma I; Mittal, Suresh K and **Rajwa, Bartlomiej P;** Cancer Research Center, comparative pathobiology, basic medical science, from PHS-NIH National Cancer Institute, \$202,275, “Understanding Breast Cancer Metastasis to Lymph Node.”

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$100,000, “Flow Boiling and Condensation Experiment (FBCE).”

Mugler, Andrew J; physics, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Nachappa, Punya B; biology — Fort Wayne campus, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Nalam, Vamsi J; biology — Fort Wayne campus, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Narimanov, Evgeniy; electrical & computer engineering, from Norfolk State University, \$48,000, “Control of Light-Matter Interactions with Metamaterials.” (a Discovery Park award — Birk Nanotechnology Center)

Nauman, Eric A; mechanical engineering, from Chappelle, \$3,577, “Tweardy, Mackenzie J.”

Neumeister, Norbert; physics, from Princeton University, \$498,607, “U.S. Compact Muon Solenoid (CMS) Operations at Lhc; Amendment 11.”

Niyogi, Devdutta S; agronomy, from Purdue University, \$29,130, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Ogas, Joseph P; biochemistry, from National Science Foundation, \$250,000, “Understanding the Contribution of the Pickle Atp-Dependent ReModeler to Expression of H3K27me3-Dependent Loci.”

Ouyang, Zheng; biomedical engineering, from University of Colorado Denver, \$223,745, “Quantitation of Tenofovir-Diphosphate (TFV-DP) in Blood Cells.”

Paniagua, Guillermo; mechanical engineering, from Rolls-Royce, Inc., \$20,000, “Turbine Tip Optimization.”

Parashar, Neeti; chemistry and physics — Calumet campus, from University of Notre Dame, \$16,240, “QuarkNet Program at Purdue University Calumet.”

Park, Min K; visual & performing arts, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Patterson, John A; animal sciences, from Agricultural Research Service, \$20,408, “Developing a Probiotic for Anxiety Management.”

Patton, Aaron J; horticulture & landscape architecture, from Central Garden & Pet Inc, \$8,400, “Multi-Sponsored.”

Patton, Venetria K; interdisciplinary studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “PHND - SRG.”

Peroulis, Dimitrios and Semnani, Abbas; electrical & computer engineering, from Baylor University, \$484,394, “Reconfigurable Power Amplifier and Filter Technology for Real-Time Adaptive Next Generation Radar.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios and Psychogiou, Dimitra; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$43,576, “Miniature Broadband Tunable Filters for Reconfigurable Receivers.” (a Discovery Park award — Birck Nanotechnology Center)

Peterson, John R; physics, from U.S. Department of Energy, \$90,000, “Dark Energy Studies with Large Synoptic Survey Telescope (LSST) Using the Photon Simulator.”

Petrosyan, Arshak; mathematics, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship/Assistantship, \$18,790, “Decker, James.”

Prabhakar, Sunil K; computer science, from Purdue Research Foundation (PRF) Summer Research Grants, \$6,840, “CS - SRG.”

Pyrak-Nolte, Laura J; physics, from U.S. Department of Energy, \$121,927, “The Physics of Swarms in Fracture Networks: Integration of Seismic Characterization and Controlled Micro-Transport.”

Pyrak-Nolte, Laura J; physics, from U.S. Department of Energy, \$121,264, “The Physics of Swarms in Fracture Networks: Integration of Seismic Characterization and Controlled Micro-Transport.”

Quinn, Christopher J; industrial engineering, from National Science Foundation, \$175,000, “CRII:RI: Efficient Structure Learning and Approximation of Networks of Causally Interacting Processes.”

Raman, Arvind; Gleghorn, Virginia L; Groll, Eckhard A; Jesiek, Brent K and Jones, James D; mechanical engineering, minority engineering program, engineering education, from Partners of the Americas Foundation, \$24,896, “Purdue-Colombia Partnership for Scaling Inclusive, Sustainable, and Transformative Engineering Study Abroad Experiences.”

Ramanathan, Shriram; materials engineering, from Air Force Office of Scientific Research, \$153,245, “Carrier Doping and Dynamics in Correlated Oxides.”

Ramanathan, Srividya; physics, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Ratcliffe, Krista L; English, from Purdue Research Foundation (PRF) Summer Research Grants, \$84,632, “ENGL - SRG.”

Ratliff, Timothy L; Cancer Research Center, from Purdue University, \$25,000, “15-16 PCCR Seed Grant.”

Remis, Melissa J; anthropology, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Roberts, Felicia D; communication, from Purdue Research Foundation (PRF) Summer Research Grants, \$9,957, “LING - SRG.”

Robicheaux, Francis J; physics, from U.S. Department of Energy, \$50,000, “Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping.”

Roegman, Rachel D; educational studies, from Kinley Trust, \$20,000, “Breaking the School-to-Prison Pipeline—the Role of School Superintendents.”

Rokhinson, Leonid P; physics, from Air Force Office of Scientific Research, \$41,780, “Development of Electrical Detection and Control of Magnetization in Antiferromagnetic Materials.”

Rokhinson, Leonid P and Lyanda-Geller, Yuli; physics, from Office of Naval Research, \$50,000, “Parafermion-Supporting Platform for Topological Quantum Information Processing.”

Ross, Charles S; English, from Purdue Research Foundation (PRF) Summer Research Grants, \$9,957, “CMPL - SRG.”

Rossmann, Michael G and Kuhn, Richard J; biological sciences, from Vanderbilt University, \$220,861, “Human Monoclonal Antibodies that Neutralize Chikungunya Virus.”

Roy, Kaushik; electrical & computer engineering, from Office of Naval Research, \$120,305, “Spiking-Neural Computing: Devices, Circuits, and Fabrication.”

Roy, Kaushik; electrical & computer engineering, from Office of Naval Research, \$125,567, “Spiking-Neural Computing: Devices, Circuits, and Fabrication.”

Ruiz, Yumary; health & kinesiology, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Sadof, Clifford S; entomology, from Animal Plant Health Inspection Service, \$27,500, “Forest Insect Taxonomic Support (Forest Insect Taxonomic Support [FITS]) Initiative for the USDA-APHIS-PPQ-CAPS Exotic Pest Detection Survey Program and the National Emerald Ash Borer.”

Sangid, Michael D; aeronautical & astronautical engineering, from U.S. Department of Energy, \$81,525, “Deformation Mechanisms at Grain Boundaries in Polycrystals.”

Sangid, Michael D; aeronautical & astronautical engineering, from Northrop Grumman Space Technology, \$50,000, “Probability Theory & Probabilistic Design Sciences.”

Scalo, Carlo; mechanical engineering, from Air Force Office of Scientific Research, \$70,792, “Direct Numerical Simulation of Hypersonic Transition Delay Over Carbon/Carbon Ultrasonically Absorptive Coatings.”

Scalo, Carlo; mechanical engineering, from Kord Technologies Inc, \$21,000, “Multi Time-Scale and Consistent Large Eddy Simulation with Lagrangian Vortex Subgrid Model for Naval Single-Phase and Two-Phase Applications.”

Schneider, Steven P; aeronautical & astro-nautical engineering, from Office of Naval Research, \$142,150, "Laminar Flow Control in a Hypersonic Quiet Nozzle Using Wall Suction: Feasibility Studies."

Schwab, Abraham P; philosophy - Fort Wayne campus, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Schweitzer, James F; health sciences, from Tippecanoe County Board of Commissioners, \$4,800, "Dublin Institute of Technology Students Practical Training."

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, \$108,613, "Distributed Optimization Methods for Nonconvex In-Network Big Data Analytics."

Seigfried-Spellar, Kathryn C and Laux, Dawn D; computer & information technology, from National Security Agency, \$94,242, "Purdue University Cyber Camp."

Sheehan, Amy H; pharmacy practice, from PHS-FDA Food and Drug Administration, \$30,000, "Regulatory Fellowship FDA Portion."

Shepson, Paul B; earth & atmospheric sciences, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Simpson, Garth J; chemistry, from PHS-NIH National Institute of General Medical Science, \$282,584, "Ultrafast Nonlinear Optical Approaches Toward High-Throughput Membrane Protein Nanocrystal Detection."

Singh, Manpreet; food science, from Hersi, Deeqo, \$75, "Multi-Sponsored Gift."

Sloan, Mary Anne; Office of Corporate and Global Partnerships, from JSI Research and Training Institute, \$619, "Multi-Sponsor Account I-Hitec."

Smith, Mjt; graduate school administration, from GS Bridge Assistantships, \$5,582, "Browne, Mary M."

Smith, Mjt; graduate school administration, from National Science Foundation, \$1,180,500, "2012-18 NSF Graduate Research Fellowship Program (GRFP)."

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$4,521, "Barry, Sean P."

Sojka, Paul E; mechanical engineering, from Purdue University, \$63,388, "Research Refresh:Applying State-of-the-Art Multi-Phase Flow Diagnostics to Agricultural Sprays."

Son, Steven F; mechanical engineering, from University of Notre Dame, \$140,985, "Shock Wave Processing of Advanced Reactive Materials Experiments; Modification 6."

Song, Qifan; statistics, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Stefanov, Plamen D; mathematics, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Stefanska, Barbara M; foods & nutrition, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Steiner, Sherrie M; sociology — Fort Wayne campus, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Steup, Matthias P; philosophy, from Purdue Research Foundation (PRF) Summer Research Grants, \$19,913, "Phil - Srg."

Stewart, Kara R; animal sciences, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Strachan, Alejandro H; Chen, Weinong W; Koslowski, Marisol; Ortalan, Volkan and Son, Steven F; materials engineering, aeronautical & astronautical engineering, mechanical engineering, from Office of Naval Research, \$1,514,153, "PC@Xtreme - Predictive Chemistry & Physics at Extreme Temperature and Pressure: Molecules, Crystals and Microstructures." (a Discovery Park award — Birck Nanotechnology Center)

Straw, Mark L; Byers, Candy S; Haynes, Robert W; Johnson, Darrel J; Mears, Robert A and Ratliff, Scott A; animal sciences, from Agricultural Marketing Service, \$64,200, "Country of Origin Labeling for Retail Surveillance Activities."

Stuart, Jeffrey J; entomology, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Subramaniam, Mangala; sociology, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

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; Modification 2."

Sudhoff, Scott D; electrical & computer engineering, from Faraday & Future Inc, \$37,430, "Characterization of Magnetic Steels."

Sundaram, Neera J; mechanical engineering, from National Science Foundation, \$6,000, "Research Experience for Undergraduates (REU) Supplement Request."

Swihart, Robert K; forestry & natural resources, from Indiana Arborists Association, Inc., \$7,500, "Indiana Arborists Association, Inc."

Swihart, Robert K and Woeste, Keith E; forestry & natural resources, from U.S. Forest Service, \$1,808, "Genomic Analysis of Northern Long-Eared Bat."

Swihart, Robert K; Saunders, Michael R; Dunning, John B; Holland, Jeffrey D and Jenkins, Michael A; forestry & natural resources, entomology, from Indiana Department of Natural Resources, \$613,024, "Hardwood Ecosystem Experiment III."

Tantama, Mathew C; chemistry, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Tay, Sien Chieh; psychological science, from University of Pennsylvania, \$32,578, "Performance Task Measures of Self-Control and Grit."

Tay, Sien Chieh; psychological science, from University of Pennsylvania, \$29,730, "Performance Task Measures of Self-Control and Grit; Amendment 1."

Taylor, Lynne S; industrial & physical pharmacy, from National Institute for Pharmaceutical Technology and Education, \$250,652, "Inter-Relations Between Spray Drying Process Parameters and Product Performance for Formulations of Poorly Water Soluble Compounds."

Templin, Thomas J; health & kinesiology, from Purdue Research Foundation (PRF) Summer Research Grants, \$9,957, "H&K - SRG."

Thomas, Joseph; pharmacy practice, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, "PHPR - SRG."

Tran, Elizabeth; biochemistry, from Purdue University, \$29,130, "16-17 Center for Cancer Research Special Incentive Research Grant (SIRG)."

Tran, Elizabeth; biochemistry, from Purdue University, \$67,766, "15-16 Office of the Vice President for Research (OVPR) Bridge Funding."

Tran, Elizabeth; biochemistry, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Tran, Elizabeth; biochemistry, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Traynor, Anne; educational studies, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Tsoukalas, Lefteri and **Choi, Chan K**; nuclear engineering, from U.S. Department of Energy, \$423,273, "Creation of a Geant4 Muon Tomography Package for Imaging of Nuclear Fuel in Dry Cask Storage."

Tu, Manghui and **Jin, Ge**; computer information technology — Calumet campus, from National Security Agency, \$88,208, "Gencyber Summer Camp at Purdue University Calumet for High School Students in Chicago Metropolitan Area."

Turek, John J; basic medical science, from Animated Dynamics LLC, \$21,622, "Research Support for Biodynamic Imaging."

Tyner, Wallace E; agricultural economics, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Tyner, Wallace E; agricultural economics, from Antares Group Inc, \$84,586, "Enabling Sustainable Landscape Design for Continual Improvement of Operating Bioenergy Supply Systems."

Tzempelikos, Athanasios; civil engineering, from Lutron Electronics Co Inc, \$27,000, "Architectural Engineering - Tzempelikos."

Ukkusuri, Satish V and **Labi, Samuel**; civil engineering, from Indiana Department of Transportation, \$39,933, "Evaluate the Impacts of Time-of-Day Tolling on Indiana State Roads-SPR -3911."

Ulrich, Bernd; mathematics, from National Science Foundation, \$4,200, "Algebra and Geometry Meetings in the Midwest."

Umberger, Gloria H; technology — administration, from Fiat Chrysler Automobiles, \$6,000, "Senior Capstone."

Umberger, Gloria H; technology — administration, from Subaru-Isuzu Automotive Inc., \$6,000, "Senior Capstone."

Umulis, David M and **Rundell, Ann E**; agricultural & biological engineering, biomedical engineering, from PHS-NIH National Institute of Child Health and Human Development, \$301,710, "Systems Analysis of BMP Regulation in Developing Zebrafish Embryos."

Uyeda, Christopher H; chemistry, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Vacca, Andrea; agricultural & biological engineering, from National Fluid Power Association, \$6,000, "Multi-Sponsored Gift."

Varma, Amit H; **Seo, Jungil**; **Prezzi, Monica** and **Salgado, Rodrigo**; civil engineering, from Idaho National Laboratory, \$60,000, "Nonlinear SSI: Numerical and Experimental Exploration of Interfacial Nonlinearities."

Veile, Amanda J; anthropology, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Vlachos, Pavlos; mechanical engineering, from University of Texas at Austin, \$71,357, "Nanoparticle Transport as a Function of Physiologic and Hyperthermic Conditions in a 3-D Vascularized Microfluidic Tumor."

Vyn, Tony J; agronomy, from Mosaic Crop Nutrition LLC, \$5,000, "Agricultural Cropping Systems."

Waltenburg, Eric N; political science, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Wang, Haiyan; materials engineering, from Office of Naval Research, \$270,508, "Wang - DURIP: Acquisition of a Multifunctional in Situ Tem Holder for Nanomaterials Research and Education."

Wang, Nien-Hwa L; chemical engineering, from ITC Limited, \$25,392, "Voluntary Support for Research in SMB Processes for Sugar Recovery from Woody Biomass."

Wang, Xiaoming; engineering technology, from Purdue University, \$10,400, "Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17."

Wassgren, Carl R; mechanical engineering, from CD Adapco, \$64,465, "Proposal for Developing Dem Material Property Calibration Methods."

Wassgren, Carl R; mechanical engineering, from Iowa State University, \$14,044, "Application of the Discrete Element Method (Dem) for Modeling of Crop Harvesting."

Weaver, Connie M; foods & nutrition, from Pepsico Inc./ World Trading Co., \$6,000, "Corporate Affiliates Fund."

Weaver, Connie M; foods & nutrition, from Tate & Lyle Ingredients Americas, Inc., \$180,328, "Weaver Tate & Lyle Research."

Weiner, Andrew M; electrical & computer engineering, from National Science Foundation, \$6,000, "Research Experience for Undergraduates (REU) Supplement - Taming Entangled Photons: Programmable Control of Quantum States of Light."

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

Weiner, Andrew M and **Qi, Minghao**; electrical & computer engineering, from National Science Foundation, \$6,000, "Research Experience for Undergraduates (REU) Supplement - Microresonator Frequency Combs as Coherent Transceiver Sources for Multi-Tb/S Optical Communications."

Weinstein, Dana; electrical & computer engineering, from Lincoln Laboratory, \$125,000, "Acoustoelectric Transduction & Gain in Piezoelectric Semiconductors."

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

Weller, Stephen C; horticulture & landscape architecture, from FMC Corporation, \$3,000, "Research Gift."

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

White, Paul W; English, from Purdue University, \$29,130, "FY 16-17 Purdue Research Foundation (PRF) Research Grant."

Wilbur, Ronnie B; speech, language and hearing sciences, from Ohio State University, \$25,575, "Computational Methods for the Study of American Sign Language Nonmanuals Using Very Large Databases."

Wilker, Jonathan J; chemistry, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Wilson, Steven R; communication, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Wise, Kiersten A; botany & plant pathology, from BASF Corporation, \$6,624, “Bionematicides for SCN.”

Wise, Kiersten A; botany & plant pathology, from Agricultural Research Service, \$11,341, “Integrated Management Strategies for Fusarium Head Blight in Indiana.”

Won, You-Yeon; chemical engineering, from Purdue University, \$29,130, “16-17 Center for Cancer Research Special Incentive Research Grant (SIRG).”

Yang, Jer-Yen; basic medical science, from Elsa U. Pardee Foundation, \$211,544, “Role of Metabolic Sensor Ampk in Resistance to Anti-Smoothed Therapy in Medulloblastoma.”

Yang, Jer-Yen; basic medical science, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Ye, Peide; electrical & computer engineering, from Air Force Office of Scientific Research, \$200,000, “Thz III-V Moshfets Enabled by Atomic Layer Deposition (ALD)-Grown Scalable High-k Gate Insulators (Task).”

Yeo, Yoon; industrial & physical pharmacy, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Yeomans, Christopher L; philosophy, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Yeung, Sai K; mathematics, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Yip, Nung Kwan; mathematics, from Purdue University, \$57,760, “Research Refresh Award: Mathematical Analysis of Phase Boundary Motions in Materials Science.”

Yu, Wenbin; aeronautical & astronautical engineering, from Georgia Institute of Technology, \$76,175, “Next-Generation Vabs for More Realistic Modeling of Composite Blades.”

Zaspel, Jennifer M; entomology, from National Science Foundation, \$114,702, “Digitization Technology Computer Network (TCN): Collaborative Research: Lepidoptera of North America Network: Documenting Diversity in the Largest Clade of Herbivores.”

Zaspel, Jennifer M; entomology, from Nature Conservancy (Indy IN), \$2,500, “Voluntary Support.”

Zhang, Hao; statistics, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Zhang, Hao; statistics, from Winifred B. Bilsland Endowment, \$3,333, “Qu, Simeng.”

Zhang, Xiangyu and Xu, Dongyan; computer science, from SRI International, \$427,107, “Transparent Computing; Amendment 1.”

Zhang, Xinghang; materials engineering, from National Science Foundation, \$248,662, “Zhang - Fundamental Mechanisms of Removal of Stacking Fault Tetrahedra by Mobile Low.”

Zhang, Xinghang; materials engineering, from Petroleum Research Fund, \$90,903, “Zhang - Stress Corrosion Cracking in Ultrafine Grained Ni and its Alloy for Petrochemical Industries.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$244,726, “Structure/Function of Protein Tyrosine Phosphatases.”

Zheng, Wei; health sciences, from Yale University, \$69,982, “Environmental Epidemiology of Essential Tremor.”

Zhou, Qi; industrial & physical pharmacy, from Purdue University, \$10,400, “Purdue Research Foundation (PRF) Summer Faculty Grant, FY 16-17.”

Zhou, Qi; industrial & physical pharmacy, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “INPP - SRG.”

Zhu, Jian-Kang; horticulture & landscape architecture, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Zhuang, Qianlai; earth & atmospheric sciences, from Purdue University, \$29,130, “FY 16-17 Purdue Research Foundation (PRF) Research Grant.”

Zwier, Timothy S; chemistry, from Purdue Research Foundation (PRF) Summer Research Grants, \$41,040, “CHEM - SRG.” ■

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