

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

November 2016

Adeola to Carroll

Adeola, Olayiwola; animal sciences, from Evonik Corporation, \$60,000, "Swine & Poultry Research – Evonik."

Adeola, Olayiwola; animal sciences, from DSM Nutritional Products, Inc., \$75,000, "DSM."

Ajuwon, Kolapo; animal sciences, from AB Agri Limited, \$10,000, "Swine Research."

Alexeenko, Alina; aeronautical & astronautical engineering, from Abbvie Inc, \$115,000, "Lyophilization Scale-Up Data Analysis and Modeling."

Alexeenko, Alina; aeronautical & astronautical engineering, from Janssen Scientific Affairs, \$10,000, "LyoHub Consortium."

Alexeenko, Alina; aeronautical & astronautical engineering, from Baxter Medical Products R & D, \$10,000, "LyoHub Consortium."

Aliprantis, Dionysios; electrical & computer engineering, from PC Krause and Associates, \$33,999, "Hybrid Modeling Capability for Aircraft Electrical Propulsion Systems."

Allebach, Jan P; electrical & computer engineering, from Hewlett Packard, \$75,000, "Person Detection and Recognition for Smart-home and Smartoffice."

Allebach, Jan P; electrical & computer engineering, from Georgia Technology, \$85,000, "Achieving the Potential: A Proposal to Expand the Capacity, Reach and Effectiveness of VIP at Purdue, Amendment 3; Grant 208226."

Allebach, Jan P; electrical & computer engineering, from Hewlett Packard, \$31,219, "Fail-Safe Hybrid Screening Algorithm."

Appenzeller, Joerg and Datta, Supriyo; engineering administration engineering experiment, electrical & computer engineering, from University of California-Los Angeles, \$349,000, "Fame, Amendment 6; (Grant 106452)."

Appenzeller, Joerg; Chen, Zhihong and Klimeck, Gerhard; engineering administration engineering experiment, electrical & computer engineering, from University of Notre Dame, \$670,848, "Modification No 7 to Grant 106424."

Arrieta Diaz, Andres; mechanical engineering, from Air Force Office of Scientific Research, \$135,697, "On-Demand Stiffness Selectivity for Morphing Systems."

Bajaj, Anil K; mechanical engineering, from Cummins Business Services, \$28,000, "Cummins Assistanships."

Bane, Sally P; aeronautical & astronautical engineering, from Spectral Energies, LLC, \$26,000, "Phase I: Agile Optical Methods for Fireball Species and Particle Characterization."

Basaran, Osman A; chemical engineering, from Chevron U.S.A., Inc., \$25,000, "Purdue Process Safety and Assurance Center(P2SAC)."

Beaulieu, Lionel J; Wilcox, Michael D and Grismer, Melinda A; Office of Engagement, agriculture – administration, from Mississippi State University, \$26,400, "Stronger Economies Together – Set VI."

Bhave, Sunil A; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$339,957, "Misc Clock: Miniaturized Silicon Carbide Clock, Modification 1; Grant108630."

Bigelow, Cale A; horticulture & landscape architecture, from Sepro Corporation, \$9,000, "Putting Greens Research."

Bodner, George M; chemistry, from University of Missouri, \$94,076, "Research Design and Rigor in NSF Funded Education Research Projects: A Time Series Analysis of the Engineering Education and Chemical Education Research Communities."

Bogdanor, Michael J; Composites, Manufacturing & Simulations Center, from Applied Composites Engineering, \$3,500, "Structural Component Stress Analysis."

Bolton, J S; mechanical engineering, from Ford Motor Company, \$60,000, "Ford-Poling Challenge Award."

Bouman, Charles A; electrical & computer engineering, from General Electric Company, \$120,699, "Model-Based Iterative Cardiac Reconstruction in the Revolution System."

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

Braun, James E; mechanical engineering, from Field Diagnostics, \$7,500, "Center for High Performance Building Consortium."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$129,081, "Assessment of Bridges Subjected to Vehicular Collision."

Caffee, Marc W; physics, from U.S. Geological Survey, \$23,640, "Glaciation of the Sawatch Range, Leadville, Co."

Caffee, Marc W; physics, from U.S. Geological Survey, \$10,340, "Glaciation of the Sawatch Range, Leadville, Co."

Cakmak, Mukerrem; mechanical engineering, from Office of Naval Research, \$246,880, "Development of Metrology Tools for Performance of Flexible Hybrid Devices." (a Discovery Park award – Birk Nanotechnology Center)

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

Carroll, Natalie J and Sell, Walter E; youth development & agricultural education, field extension educators, from University of Minnesota, \$72,701, "Soil Health Education Resources for Teachers."

Casteel to Fouche

Casteel, Shaun N; agronomy, from University of Nebraska, \$30,795, "Benchmarking Soybean Production Systems in the North-Central USA."

Chen, Weinong W; aeronautical & astronautical engineering, from Department of the Army, \$215,000, "Development of a Predictive Indicator for Fabric Ballistic Performance; Modification 5; Grant 107109."

Chen, Zhihong; electrical & computer engineering, from University of Notre Dame, \$209,984, "Cu/Tmd Hybrid Interconnects-Enhanced Electrical Performance and Ultra-Thin Cu Diffusion Barrier; Amendment 1; Grant 208968."

Chiu, George T; mechanical engineering, from Institute of Electrical Electronics Engineering, \$36,000, "Institute of Electrical and Electronics Engineers (IEEE) Transactions on Mechatronics Editorial Service Agreement."

Choi, Jong Hyun; mechanical engineering, from Office of Naval Research, \$65,000, "Toward Versatile Synthetic DNA Walkers."

Christian, John A; comparative pathobiology, from Dr. Bradley or Kathleen Hubbard DVM, \$2,000, "Cytology Resource Center."

Christov, Ivan C; mechanical engineering, from American Chemical Society, \$110,000, "Controlling Particle Migration Using Geometry and Hydrodynamic Forces."

Coffman, Adam N; mathematics – Fort Wayne Campus, from National Science Foundation, \$24,689, "Midwestern Workshop on Asymptotic Analysis."

Connor, Robert J and Lloyd, Jason B; civil engineering, from Indiana Department of Transportation, \$125,000, "Budget Expansion for TPF-5(253), Evaluation of Member Level Redundancy in Built-Up Steel Members."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$50,000, "Analytical Evaluation of the after-Fracture System Performance of Typical Steel Twin-Tub Girder Bridges in the State of Wisconsin."

Connor, Robert J and Lloyd, Jason B; civil engineering, from Indiana Department of Transportation, \$112,781, "Project Expansion for SPR-3715 S-Brite."

Cooklev, Todor V; electrical & computer engineering, from Ball State University, \$15,005, "Shared-Memory Middleware."

Creswell, Tom C; botany & plant pathology, from Michigan State University, \$49,500, "National Plant Diagnostic Network – North Central Region."

Deering, Amanda J and Monroe, James S; food science, field extension educators, from Indiana State Department of Health, \$70,000, "State and Territory Cooperative Agreement to Enhance Produce Safety in Preparation of Implementation of FDAs Rule: Standards for the Growing, Harvesting, Packing, & Holding of Produce for Human Consumption."

Delp, Edward J and Zhu, Fengqing; electrical & computer engineering, from Google Inc, \$96,000, "Media Video Coding Using Texture Analysis and Synthesis."

Deng, Meng; agricultural & biological engineering, from National Science Foundation, \$50,000, "Polymer-Based Drug Delivery System for Obesity Treatment."

Ebner, Paul D and Oliver, Haley F; animal sciences, food science, from Procter & Gamble Company, \$19,445, "Efficacy of Litshield to Reducing Listeria Contamination on Non-Food Contact Surfaces in Purdue University Meat Processing Facilities."

Eisenhauer, Mary Jane; education, from Unity Foundation of Laporte, Cnty, \$1,750, "2016 – 2017 Library Sprouts."

Farkas, Brian E; food science, from White, Gregory N., \$30, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Ehrgott, John & Patty, \$30, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Shidler, Reese & Gretchen, \$30, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Arthur, Justin & Leah, \$50, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Geswein Farms, \$60, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from The Pine Farm Hops, LLC, \$105, "Voluntary Support Pijut."

Fekete, Donna M; biological sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$377,953, "Development Studies of the Inner Ear."

Felisberto Martins Ribeiro, Bruno; computer science, from Raytheon, \$30,693, "C2: Discovering Network Processes in Multilayer Time-Evolving Networks Under Incomplete Information."

Fernandez-Juricic, Esteban; biological sciences, from Lynntech Inc, \$44,000, "Lynntech Subcontract Agreement."

Finke, Linda M; behavioral health & family studies – support, from Indiana Family Health Council, \$15,631, "Lafayette Street Family Health Clinic – TANF Funds."

Finke, Linda M; behavioral health & family studies – support, from Indiana Family Health Council, \$12,550, "Lafayette Street Family Health Clinic – TANF Funds."

Finley, John P; physics, from Scharenberg, Rolf or Mary Jane, \$123,862, "Voluntary Support."

Fisher, Timothy; Heister, Stephen D and Shih, Tom I; mechanical engineering, aeronautical & astronautical engineering, from Air Force Research Laboratory, \$50,000, "Center for Integrated Thermal Management of Aerospace Vehicles." (a Discovery Park award – Birck Nanotechnology Center)

Fisher, Timothy; Heister, Stephen D and Shih, Tom I; mechanical engineering, aeronautical & astronautical engineering, from Air Force Research Laboratory, \$100,000, "Center for Integrated Thermal Management of Aerospace Vehicles." (a Discovery Park award – Birck Nanotechnology Center)

Fouche, Rayvon D; interdisciplinary studies, from George Washington Carver Fellowship, \$758, "Webb, Naemah A."

Garimella to Key

Garimella, Suresh V; mechanical engineering, from Futurewei Technologies Inc, \$30,000, “Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) Membership – Memo Match for 106029.”

Gibson, Kevin W; Indiana State Chemist, from Purdue University Special Initiative Program, \$16,195, “Cronin, Janelle A.”

Ginzel, Matthew D; entomology, from Xavier University, \$22,779, “Biology of Asian Longhorned Beetle in Ohio.”

Gletsu-Miller, Nana A; foods & nutrition, from Cura Global Health, Inc, \$10,000, “Nana Gletsu-Miller.”

Goldberg, David and **Goins, Edray H**; mathematics, from National Science Foundation, \$30,000, “2016 Field of Dreams Conference.”

Goni Cortes, Joaquin; industrial engineering, from Indiana University, \$92,571, “Center on Genetic Determinants of Alcohol Ingestion and Responses to Alcohol.”

Goodsell, Johnathan E and **Yu, Wenbin**; Composites, Manufacturing & Simulations Center, aeronautical & astronautical engineering, from Spirit Aerosystems Inc, \$105,000, “Micromechanical Modeling of Porosity in Composites.”

Goosen, Robert K; Technical Assistance Program, from Illinois Manufacturing Excellence Center, \$333,790, “Embedding Purdue Manufacturing Extension Partnership (MEP) Personnel within IMI for Collaborative Pilot Projects.”

Govindaraju, Rao S; civil engineering, from Pegasus Technical Services Inc, \$77,000, “Decision Support Tool for Risk-Based Watershed Management.”

Grant, Michael J; aeronautical & astronautical engineering, from Leidos, \$35,000, “Systems-Based Trajectory Design for High-Speed Attack Munitions.”

Grant, Richard H; agronomy, from AMEC, \$14,618, “Dry Deposition Monitoring at Vincennes Indiana.”

Groll, Eckhard A; mechanical engineering, from Air Squared, \$180,000, “Organic Rankine Cycle as a Bottoming Cycle for Waste Heat Recovery from Internal Combustion Engines; Amendment 1; Grant 108362.”

Habib, Ayman F; civil engineering, from Indiana Department of Transportation, \$145,869, “LIDAR-Based Mobile Mapping System for Lane Width Evaluation and Reporting in Work Zones.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$500,000, “Asset Management for Indiana Local Agencies.”

Han, Qingyou; engineering technology, from Wuhan Zhijacheng Education Consulting, \$9,985, “Center for Materials Processing Research (CMPR).”

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$21,852, “2016 Joint PhD Program with Indiana University Purdue University at Indianapolis (IUPUI) for Graduate Support – Silvia Canelon.”

Hartman, Nathan W; computer graphics technology, from Lockheed Martin Corp., \$58,333, “Product Lifecycle Management Center of Excellence (PLM).”

Heeg, Marlene O; pharmacy – administration, from Novartis Pharmaceuticals Corporation, \$100,000, “from Psoriasis to Psoriatic Arthritis; Incorporating Advances to Individualize Treatment.”

Heinz, Michael G; speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$290,166, “Effects of Sensorineural Hearing Loss on Robust Speech Coding.”

Hertel, Thomas W; agricultural economics, from University of Chicago, \$48,223, “Robust Decision-Making on Climate and Energy; Amendment 1; Grant 108085.”

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

Hoagland, Lori A; horticulture & landscape architecture, from Italtollina USA, \$31,000, “Biostimulants in Horticulture.”

Hogan, Daniel F; veterinary clinical science, from Multi-Sponsored Industrials, \$10,000, “Journal of Veterinary Cardiology Editorial.”

Horgan, Briony H; earth & atmospheric sciences, from Jet Propulsion Laboratory, \$56,924, “Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater; Modification 1, Grant 108399.”

Hountz, Randall A; Technical Assistance Program, from Indiana University, \$1,333,100, “Great Lakes Practice Transformation Network.” (a Discovery Park award – Regenstrief)

Howarter, John A; materials engineering, from Procter & Gamble Company, \$60,000, “Polymer Film Stability.”

Huang, Libai; chemistry, from University of Notre Dame, \$68,000, “Efri 2-Dare Monolayer Heterostructures: Epitaxy to Beyond-CMOS Devices; Amendment No. 3; Grant 107551.”

Ishii, Mamoru; nuclear engineering, from Bechtel Bettis, Inc., \$86,866, “Data Transmittal of NRC Large Diameter Pipe Data and TEPCO Annular Flow Data.”

Jin, Jian; **Agee, April A**; **Johnson, William G** and **Young, Bryan G**; agricultural & biological engineering, agriculture – administration, botany & plant pathology, from Dow Agro Sciences, \$75,950, “Leveraging Phenotypical Imaging Technology Toward Crop Protection Discovery Screening.”

Johnson, Carla J; education-administration, from Battelle Memorial Institute, \$28,213, “Battelle – Army Educational Outreach Program Cooperative Agreement; Modification 4, Grant 108058.”

Johnson, William G; botany & plant pathology, from Monsanto Company, \$25,000, “Weed Science Research Voluntary Support.”

Johnston, Cliff T; agronomy, from Clay Minerals Society, the, \$25,598, “Memorandum of Understanding Between Department of Agronomy Purdue University and Clay Mineral Society.”

Kaplan, Ian; entomology, from Xerxes Society Inc, \$3,250, “Voluntary Support.”

Kelly, Daniel R; philosophy, from Purdue University, \$30,411, “Bias & Philosophy.”

Key, Nicole L; mechanical engineering, from Rolls-Royce, Inc., \$10,900, “CSTAR Performance Research.”

Kingsbury to Panlagua Perez

Kingsbury, Bruce A and **Jordan, Mark A**; arts & sciences administration – Fort Wayne campus, biology – Fort Wayne campus, from Indiana Department of National Resources, Division of Fish & Wildlife, \$220,322, “Assessment of the Population Status and Genetic Composition of the Blandings Turtle and Spotted Turtle in Indiana.”

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, \$75,000, “Network for Computational Nanotechnology (NCN) Membership.”

Klimeck, Gerhard and **Strachan, Alejandro H**; electrical & computer engineering, materials engineering, from University of California-Los Angeles, \$190,000, “Center of Function Accelerated Nanomaterial Engineering (FAME): Atomistic Modeling of Rram Switching Behavior; Amendment 6, (Grant 106417).”

Krogmeier, James V; electrical & computer engineering, from Producers Marketing Association, \$5,000, “Open Ag Technology Group.”

Krupke, Christian H; entomology, from E.I. DuPont de Nemours and Company, \$2,000, “Krupke – Entomology – Research.”

Krupke, Christian H; entomology, from Monsanto Company, \$1,411, “Adult Western Corn Rootworm Population Collections from 2016 Corn Field (Service Order 33).”

Kurdalak, Erik S; food science, from Lycored Corp, \$9,000, “Pilot Plant Multi-Sponsored Gift.”

Latin, Richard X; botany & plant pathology, from Dow Agro Sciences, \$3,000, “Turfgrass Disease Research.”

Lechtenberg, Victor L; president, from Madison Chamber and Economic Development, \$5,000, “Support of Southeastern Small Business Development Center (SBDC).”

Leidy, Heather J; foods & nutrition, from University of Missouri, \$36,887, “Long-Term Effects of Consuming a High Protein, Beef Breakfast on Weight Management and Glycemic Control in Overweight ‘Breakfast-Skipping’ Young People.”

Lelievre, Sophie A; basic medical science, from Loreal USA, \$205,169, “New HTS Aging Model to Challenge Raw Material Screening: μ Fibrosquares: Step 2.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$2,500, “Multi-Sponsored Gift – Sensory.”

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

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

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

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$3,000, “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 Heartland Food Products Group, \$15,000, “Multi-Sponsored Gift – Sensory.”

Manfra, Michael J; electrical & computer engineering, from Micro-soft Corporation, \$650,000, “Materials for Topological Quantum Computing.”

Matson, Eric T; computer & information technology, from Cruise Automation Inc, \$14,000, “Incrs for Cruise Automation, Inc Fellowship for Shiva Ghose.”

Mauer, Lisa J; food science, from Marie Loewen, \$300, “Multi-Sponsored Gift.”

McMillan, Sara K; agricultural & biological engineering, from George Washington Carver Fellowship, \$758, “Scarlett, Rachel.”

McNamara, Kevin T; agricultural economics, from University of California – Davis, \$950,835, “Afghanistan Agricultural Extension Project – II.”

Mei, Jianguo; chemistry, from American Chemical Society, \$110,000, “Controlled Chain-Growth Direct Arylation Polymerization of Asymmetric Push-Pull Aryl Halides.”

Mei, Jianguo; chemistry, from Furcifer Inc, \$18,000, “Furcifer.”

Meilan, Richard; forestry & natural resources, from Enp Investments, \$500, “Voluntary Support Research/Development.”

Meyer, Terrence R; mechanical engineering, from Spectral Energies, LLC, \$111,676, “MHz-Rate Nonlinear Spectroscopy and Imaging Platform for Transient and Nonequilibrium Flows.”

Mudawar, Issam; mechanical engineering, from Multi-Sponsored Industrials, \$125, “Research in Boiling and Two Phase Lab.”

Narimanov, Evgeniy; electrical & computer engineering, from University of California – Berkeley, \$80,000, “An Optical Nanoscope for Imaging Beyond Diffraction Limit.” (a Discovery Park award – Birck Nanotechnology Center)

Narsimhan, Ganesan; agricultural & biological engineering, from Frito-Lay/Pepsico Foods International, \$12,500, “Ganesan Narsimhan – Ag & Bio Engineering Research.”

Newton, Kathryn A; industrial technology, from University of Industrial Distribution, \$10,000, “Coordination of University of Innovative Distribution Program.”

Ohaire, Marguerite E; comparative pathobiology, from Indiana University, \$112,592, “Therapeutic Efficacy of Service Dogs for Veterans with Posttraumatic Stress Disorder and Their Spouses.”

Olek, Jan; civil engineering, from Indiana Department of Transportation, \$240,000, “Improving the Quality of Concrete for Indiana Department of Transportation (INDOT) Projects SPR-403.”

Oliver, Haley F and **Howarter, John A**; food science, materials engineering, from Sealed Air Corporation, \$71,308, “Surface Damage and Microbial Risk Study.”

Paladino, Frank V; biology – Fort Wayne campus, from Earthwatch, \$135,000, “Costa Rican Sea Turtles 2016-17.”

Paniagua Perez, Guillermo; mechanical engineering, from NATO (N. Atlantic Treaty Organization), \$86,430, “Versatile UAV Engine Development via CVT Coupled Micro Turbofan.”

Pastakia to Schoenlein

Pastakia, Sonak D and **Pekny, Chelsea R**; pharmacy practice, from Vanderbilt University, \$99,959, "The Impact of Peer-Enhanced Delivery Model into the Multidisciplinary Care Team on Inpatient Diabetes Management on the Adult Medicine Wards at a Large Referral Hospital in Western Kenya."

Patton, Aaron J; horticulture & landscape architecture, from Dow Agro Sciences, \$23,500, "Multi-Sponsored."

Patton, Aaron J; horticulture & landscape architecture, from BASF Corporation, \$4,000, "Multi-Sponsored."

Patton, Aaron J; horticulture & landscape architecture, from FMC Corporation, \$7,000, "Multi-Sponsored."

Pekarek, Steven D and **Sudhoff, Scott D**; electrical & computer engineering, from Continuous Solutions, \$40,000, "T15.01 Power Systems for Hybrid Electric Propulsion."

Peroulis, Dimitrios and **Mousoulis, Charilaos**; electrical & computer engineering, from Landauer, \$310,000, "Microelectromechanical System (MEMS)-Scale Accumulating Radiation Sensor Program." (a Discovery Park award – Birck Nanotechnology Center)

Pijanowski, Bryan C; forestry & natural resources, from the Regents of the University of Michigan, \$111,220, "Empowering Communities with Online Action Planning Tools: Tipping Points and Indicators for Improving Water Quality Across the Great Lakes (Outreach Support)."

Pijut, Paula M; forestry & natural resources, from Pike Lumber Co Inc, \$2,500, "Voluntary Support Pijut."

Pipes, R Byron; materials engineering, from Henkel Corporation, \$50,000, "CDM HUB (Consortium)."

Purcell, Lindsey A; forestry & natural resources, from Rotam North America, Inc, \$7,500, "Voluntary Support – Purcell."

Qiu, Wei; **Raman, Arvind**; **Brunese, Patrick A**; **Dickerson, Darryl A**; **Holloway, Elizabeth M**; **Hong, Wei** and **Scrogin, James D**; global engineering programs, mechanical engineering, industrial engineering, minority engineering program, engineering administration engineering experiment, foreign language & literature, military studies, from Partners of the Americas Foundation, \$50,000, "Diversifying and Scaling Purdue Engineering Study Abroad in East Asia."

Radcliffe, David F; engineering education, from George Washington Carver Fellowship, \$758, "Fletcher, Trina."

Raghunathan, Vijay; electrical & computer engineering, from Semiconductor Research Corporation, \$60,000, "Architecting Ultra-Low Power Iot Systems Using Emerging Non-Volatile Memory Technologies."

Ramanathan, Shriram; materials engineering, from Charles Stark Draper Laboratory, Inc., \$1,000, "Wireless Cooling with Caloric Materials; Amendment 1; Grant 108134."

Ramanathan, Shriram; materials engineering, from Office of Naval Research, \$20,000, "Tunable Electronic Composites with Phase Change Materials and Controlled Disorder."

Ramanathan, Shriram; materials engineering, from Army Research Office, \$50,000, "Structural and Electrical Properties of Metastable Oxide Phase Created Under Extreme Oxygen Pressures."

Ramani, Karthik; mechanical engineering, from George Washington Carver Fellowship, \$758, "Glenn, Terrell."

Ratliff, Timothy L; comparative pathobiology, from Multi-Sponsored Industrials, \$7,720, "Cancer Center Directed Research."

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

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

Reid, Tahira; mechanical engineering, from George Washington Carver Fellowship, \$758, "Dandridge, Tikyna."

Rhoads, Jeffrey F; mechanical engineering, from Air Force Research Laboratory, \$170,000, "Near-Resonant Thermomechanics of Energetic and Mock Energetic Composite Materials, Part II."

Ricker-Gilbert, Jacob E and **Baributsa, Dieudonne**; agricultural economics, entomology, from US Agency for International Development, \$275,000, "Improving Smallholder Tanzanian Farmers' Access to Improved Storage Technology and Credit."

Rickus, Jenna L; agricultural & biological engineering, from George Washington Carver Fellowship, \$758, "Colbert, Ashlee."

Rodesiler, Lucas B; educational studies – Fort Wayne campus, from National Council of Teachers of English, \$2,500, "Jump-Starting Career-Long Learning: How Prospective Teachers Are Prepared for Participatory Online Professional Development."

Ruan, Xiulin and **Lundstrom, Mark S**; mechanical engineering, electrical & computer engineering, from Defense Advanced Research Projects Agency, \$189,583, "First Principles-Based Predictive Design of Thermoelectric Materials Under Large Temperature Gradients."

Sadof, Clifford S; **Johnson, William G**; **Foster, Ricky E**; **Beckerman, Janna L**; **Egel, Daniel S**; **Legleiter, Travis R**; **Obermeyer, John L**; **Krupke, Christian H**; **Wise, Kiersten A** and **Richmond, Douglas S**; entomology, botany & plant pathology, from National Institute of Food & Agriculture, \$5,000, "Advancing Integrated Pest Management (IPM) in Indiana."

Sadof, Clifford S; **Johnson, William G**; **Foster, Ricky E**; **Beckerman, Janna L**; **Egel, Daniel S**; **Legleiter, Travis R**; **Obermeyer, John L**; **Krupke, Christian H**; **Wise, Kiersten A** and **Richmond, Douglas S**; entomology, botany & plant pathology, from National Institute of Food & Agriculture, \$190,000, "Advancing Integrated Pest Management (IPM) in Indiana."

Salgado, Rodrigo; **Niazi, Fawad S** and **Prezzi, Monica**; civil engineering, civil & mechanical engineering, from Indiana Department of Transportation, \$325,686, "SPR 4108 – Development of Comprehensive CPT-Based Geotechnical Design Manual for Indiana Transportation."

Schoenlein, William E and **Durkes, Abigail C**; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$161,301, "Pre-Clinical Device Testing Agreement; Studies: CI-NTAX, REG-MIDS, CI-PSDV, CI-MMT1, CI-FNFC, WCE-TSL2, CI-N3A, CI-WVSC, CS-ZENP, CI-N3AP, CI-DBZ2, CBI-GHGH, CI-PDER and POC."

Scott-Moncrieff to Won

Scott-Moncrieff, Joanna C; veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$10,331, "ECC Residency Training Program."

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

Sheffield, John W; Lafayette Polytechnic, from International Association for Hydrogen Energy, \$2,500, "IAHE Expenses."

Shi, Riyl; basic medical science, from Indiana Clinical & Translational Science Institute, \$160,000, "Periorbital Alloydynia Following Head Trauma."

Shin, Yung C; mechanical engineering, from Idaho National Laboratory, \$10,000, "Additive Manufacturing of Graphite Matrixed Ceramic Fuel Block."

Singh, Manpreet; food science, from Tim Smith, \$50, "Multi-Sponsored Gift."

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

Singh, Manpreet; food science, from Joshua J Cockram, \$75, "Multi-Sponsored Gift."

Sivasankar, Preeti M; speech, language & hearing sciences, from Vanderbilt University, \$30,532, "Pre-Clinical Testing of the Safety and Efficacy of Treatments for Voice Disorders."

Son, Steven F; Heister, Stephen D; Lucht, Robert P and Ramachandran, P V; mechanical engineering, aeronautical & astronautical engineering, chemistry, from US Army ACC APG Adelphi Div, \$58,000, "Surface Chemistry and Combustion Behavior of Hypergolic Solid Fuels."

Stroshine, Richard L; agricultural & biological engineering, from New Holland North America, Inc., \$750, "Stroshine Multi-Sponsor Gift."

Sullivan, John P; aeronautical & astronautical engineering, from Brigham Young University, \$9,659, "Development and Delivery of Aerospace Capstone Project Q4 2013-Q4 2016."

Szymanski, Daniel B; agronomy, from National Science Foundation, \$98,630, "Collaborative Proposal: SPK1-ROP Signaling at the ER Surface: Implications for ER Exit Site Assembly and Morphogenesis."

Tay, Sien Chieh; psychological science, from University of Pennsylvania, \$74,200, "Performance Task Measures of Self-Control and Grit."

Tisdale, James E and Ott, Carol A; pharmacy practice, from American College of Clinical Pharmacy, \$4,968, "Methadone-Induced QT Interval Prolongation in a Narcotic Treatment Center: Identifying Patients at Risk and Simplifying ECG Monitoring."

Turco, Ronald F; agronomy, from University of Wisconsin, \$225,007, "Soil Quality Assessment and Monitoring at GLRI Edge-of-Field Sites."

Turco, Ronald F; agronomy, from Actagro Plant Nutrients, \$25,000, "Water Quality."

Ukkusuri, Satish V; civil engineering, from Indiana Department of Transportation, \$200,000, "SPR 4123: Strategic and Tactical Guidance for the Connected and Autonomous Vehicle Future."

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

Vyn, Tony J; agronomy, from Valent Biosciences Corporation, \$15,856, "Testing of Seed-Applied and In-Furrow Microbial Products for Potential Yield Enhancement in Soybean."

Wachs, Juan P and Goffman, Lisa A; industrial engineering, speech, language and hearing sciences, from PHS-AHRQ Agency/Healthcare Research & Quality, \$241,088, "GestureClean: a Touchless Interaction Language for the Operating Room."

Wassgren, Carl R; mechanical engineering, from Procter & Gamble Company, \$12,000, "P and G Voluntary Support."

Wei, Alexander; Cancer Research Center, from Purdue University, \$500, "Synergistic Combinations that Overcome Therapy-Resistant Tumors, Using Nanomedicines."

Weinstein, Dana and Bhawe, Sunil A; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$201,600, "Ninja: Nitride-on-Niobate Jammer-Resistant Architecture."

Wharry, Janelle P; nuclear engineering, from Boise State University, \$287,600, "Wharry – CFA-16-10181: Effects of High Damage Dose on Laser Welded, Irradiated AISI 304SS."

Wharry, Janelle P; nuclear engineering, from Boise State University, \$7,857, "Wharry – CER: Understanding How Irradiation Affects Electrochemical Charge Storage in Nanostructured Metal Oxide Electrodes."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$21,000, "Biomimetic Adhesives Delivered Underwater, with Charges, and from Renewable Resources."

Williams, Christopher S and Frosch, Robert J; civil engineering, engineering administration engineering experiment, from Simpson Gumpertz & Heger, \$17,000, "Testing of Carbon Steel and Stainless Steel Nuts."

Williams, Rod N; forestry & natural resources, from Duke Energy Foundation, \$9,720, "Eastern Hellbender Conservation."

Wise, Kiersten A; botany & plant pathology, from FMC Corporation, \$4,000, "Voluntary Support Account."

Wise, Kiersten A; botany & plant pathology, from North Central Soybean Research Program, \$50,200, "Soybean Extension Group: Bringing Science to Farmers."

Wise, Kiersten A; botany & plant pathology, from Albaugh Inc, \$5,000, "Voluntary Support Account."

Wise, Kiersten A; botany & plant pathology, from Iowa State University, \$30,000, "Developing an Integrated Management and Communication Plan for Soybean Sudden Death Syndrome."

Wise, Kiersten A; botany & plant pathology, from Gowan Company, \$6,000, "Voluntary Support Account."

Wise, Kiersten A; botany & plant pathology, from Bayer Crop-science, \$10,850, "Voluntary Support Account."

Won, You-Yeon; chemical engineering, from Lodos Theranostics LLC, \$7,000, "Cancer Radio Luminescence Therapy."

Xu to Zhou

Xu, Dongyan; Bhargava, Bharat; Bagchi, Saurabh; Ghafoor, Arif; Mou, Shaoshuai; Kate, Aniket Pundlik and DeLaurentis, Daniel A; Center for Education and Research in Information Assurance and Security (CERIAS), computer science, electrical & computer engineering, aeronautical & astronautical engineering, from Northrop Grumman Corporation, \$807,031, “Northrop Grumman Research Agreement; Modification 7.”

Xu, Dongyan; Deng, Xinyan and Zhang, Xiangyu; Center for Education and Research in Information Assurance and Security (CERIAS), mechanical engineering, from Office of Naval Research, \$5,000, “A Cross-Layer Framework for Retrofitting Robotic Vehicle Controllers.”

Ye, Peide; electrical & computer engineering, from Silicon Valley Community Foundation, \$25,000, “LAM Gift.”

Young, Bryan G; botany & plant pathology, from Helena Chemical Company, \$4,000, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from Rosens Inc, \$17,500, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from CST Performance Products Corp, \$1,100, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from Syngenta Crop Protection Inc., \$35,000, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from Chemorse, Ltd, \$4,900, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from Precision Laboratories Inc., \$18,000, “Multi-Sponsored Gift Account.”

Zentner, Michael G; Research Computing (RCAC), from Leidos Biomedical Research Inc, \$62,592, “Establishing a Biomedical Citizen Science Hub for the National Cancer Institute; Amendment 1, (Grant 107961).”

Zhang, Xinghang; materials engineering, from Texas Engineering Experiment Station, \$128,822, “High Temperature Tribological Performance of Ni Alloys Under Helium Environment for Very High Temperature Gas Cooled Reactors (VHTRS).”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$313,875, “Structure/Function of Protein Tyrosine Phosphatases.”

Zhou, Daoguo and Tao, Weiguo A; biological sciences, biochemistry, from National Institutes of Health, \$221,214, “Novel Type IV Effectors from *Helicobacter Pylori*.” ■

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