

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

December 2015

Abraham, Dulcy M; civil engineering, from Indiana Department of Transportation, \$168,004, “SPR 4005: Warranty Utility Cut Repair (QC/QA of Utility Cut Repair).”

Agrawal, Rakesh and Tawarmalani, Mohit; chemical engineering, management, from U.S. Department of Energy, \$358,028, “Development of Method and Algorithms to Identify Easily Implementable Energy-Efficient Low-Cost Multicomponent.”

Ajuwon, Kolapo; animal sciences, from Purdue University, \$9,466, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Aliprantis, Dionysios; electrical & computer engineering, from Purdue University, \$28,281, “1415 Purdue Research Foundation (PRF) Research Grant.”

Appenzeller, Joerg and Datta, Supriyo; engineering administration engineering experiment, electrical & computer engineering, from University of California-Los Angeles, \$349,000, “Fame.” (a Discovery Park award — Birck Nanotechnology Center)

Ashcraft, Michelle L; Student Access, Transition, Success Program, from Indiana Commission for Higher Education, \$2,000, “2015-2016 Scholarcorps AmeriCorps Host Site MOU — Purdue West Lafayette.”

Bane, Sally P; aeronautical & astronautical engineering, from Purdue University, \$9,389, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Bauer, Deborah S; history — Fort Wayne campus, from Purdue University, \$9,417, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Bayley, William G; chemistry, from North White School Corporation, \$300, “Instrumentation Van Project.”

Bayley, William G; chemistry, from Brownsburg Comm. School Corp., \$600, “Instrumentation Van Project.”

Beard, Jane A; field extension educators, from Daviess County, \$34,721, “Kiesel 2016 Daviess County Government Support.”

Beaudoin, Stephen P; Boudouris, Bryan W and Corti, David S; chemical engineering, from Northeastern University, \$298,060, “Task Order: Standardization of Procedures and Methodology to Measure Trace Explosives Sampling Efficiency and Baseline Performance.”

Beaulieu, Lionel J and Wilcox, Michael D; Office of Engagement, agriculture — administration, from Mississippi State University, \$52,800, “Stronger Economies Together — USDA Rd Cooperative Agreement No. Rbs-14-23.”

Boudouris, Bryan W; chemical engineering, from SRC Education Alliance, \$5,500, “Flexible Thermoelectric Devices.”

Bouman, Charles A; electrical & computer engineering, from Carnegie-Mellon University, \$126,992, “Managing the Mosaic of Microstructure; Amendment 6.”

Bouman, Charles A; electrical & computer engineering, from UES Inc., \$80,000, “Model-Based 3-D Reconstruction for Electron Microscopy of Biomaterials and Nanomaterials.”

Braun, James; mechanical engineering, from Jones Lang LaSalle Americas Inc, \$50,000, “Center for High Performance Building Consortium.”

Braun, James E; mechanical engineering, from Kawneer Company Inc, \$25,000, “Center for High Performance Buildings Membership Agreement — Kawneer Company, Inc.”

Braun, James E; mechanical engineering, from Regal Beloit Manufacturing Corp, \$50,000, “Center for High Performance Buildings Membership Agreement — Regal Beloit.”

Braun, James E; mechanical engineering, from Honeywell Inc., \$50,000, “Center for High Performance Buildings Membership Agreement.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$440,000, “SPR-3821 Real Time Traffic Mobility Measures.”

Buzon, Michele R; anthropology, from Purdue University, \$4,705, “INCR: Bridge Funding, Buzon.”

Cai, Hubo; Abraham, Dulcy M and Bowman, Mark D; civil engineering, from Indiana Department of Transportation, \$300,000, “SPR-4002 Risk-Based Specification for Construction.”

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$56,226, “Basalt — Biologic Analog Science Associated with Lava Terrains: ConOps Metrics and Assessment Program.”

Campbell, Wayne W; Ferruzzi, Mario and Rosen, Arthur D; foods & nutrition, food science, biological sciences, from The Egg Nutrition Center, \$150,000, “Impact of Egg Consumption on Carotenoid and Vitamin D Bioavailability in Pre- and Post-Menopausal Women.”

Casteel, Shaun N; agronomy, from Monsanto Company, \$3,500, “Yellow and Black Seed-coat Near-Isolines of AG2933 and AG3333.”

Chadwick, Keith; industrial & physical pharmacy, from Purdue University, \$9,450, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Chan, Ho; electrical & computer engineering, from Purdue University, \$28,281, “1415 Purdue Research Foundation (PRF) Research Grant.”

Chen, Dong; engineering — Fort Wayne campus, from Purdue University, \$9,418, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Chen, Zhihong; electrical & computer engineering, from Semiconductor Research Corporation, \$95,000, “Integration of Cu/Graphene Hybrid Interconnects with Damascene Process.” (a Discovery Park award — Birck Nanotechnology Center)

Cheng, Ji-Xin; biomedical engineering, from American Heart Association, \$102,676, “High-Speed Optical-Resolution Intravascular Vibrational Photoacoustic Imaging of Atherosclerotic Plaque.”

Chester, Julia A; psychological science, from Purdue University, \$3,373, “INCR: Office of the Vice President for Research (OVPR) Bridge Funding, Julia Chester.”

Chmielewski, Jean A; chemistry, from Sumitomo Chemical Company, \$15,000, “Sumitomo Chemical Company.”

Coddington, Jennifer A; nursing, from Indiana University Health Arnett, \$42,524, “Indiana University Health Arnett, Inc. (“IUH Arnett”) Amendment No.1 Employee Lease Agreement No. 13065494 (Agreement).”

Cooks, Robert G; Thompson, David H; Barker, Eric L; Grama, Ananth Y and Nagy, Zoltan; chemistry, medicinal chemistry & molecular pharmacology, computer science, chemical engineering, from Defense Advanced Research Projects Agency, \$1,788,386, “Analytic-Directed Multi-Scale Synthesis System.” (a Discovery Park award — Bindley Bioscience Center)

Culurciello, Eugenio; biomedical engineering, from John B Pierce Laboratory, \$15,620, “High-Speed, Wide Field Fluorescent Imaging of Cortex in Freely Moving Animals.”

Daniel, Jaiyanth; biology — Fort Wayne campus, from Purdue University, \$9,417, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Davis, Susan B; Track Express — Center for Regional Development, from Indiana Economic Development Corporation, \$10,739, “Hoosier Heartland Small Business Development Center CY 2015 (State).”

Deng, Meng; agricultural & biological engineering, from Purdue University, \$9,458, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Desai, Niranjan H; technology — North Central campus, from Purdue University, \$9,418, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Diao, Xiumin; engineering technology, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Dickerson, Darryl A; minority engineering program, from Department of the Navy, \$25,000, “Purdue Minority Engineering Program Navy Engagement.”

Dmitrieva, Olga; foreign language & literature, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Dooley, Frank J; Clifford, Rita K; Drake, Brent M and Horne, Pamela T; Office of the Provost, IT Application Services, Office of Institutional Research, Assessment and Effectiveness, enrollment management administration, from Arizona State University, \$284,062, “University Innovation Alliance Collaborative Agreement.”

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$10,000, “CoE Comm: Control & Interoperability — Student Travel.”

Egel, Daniel S; botany & plant pathology, from E.I. Du Pont De Nemours and Company, \$1,500, “Potassium Management.”

Ejeta, Gebisa; agronomy, from Kansas State University, \$170,688, “Genetic Enhancement of Sorghum to Promote Commercial Seed Supply and Grain Market Development in Ethiopia.”

Elliott, Stephen J and O’Connor, Kevin J; industrial technology, from Intellectual Ventures Management LLC, \$38,671, “Global Good.”

Federer, Natalie L; field extension educators, from State of Indiana, \$1,600, “Free Little Library.”

Fernandez-Juricic, Esteban; biological sciences, from Animal Plant Health Inspection Service, \$230,667, “A Novel Method to Minimize Bird Strikes through Onboard Lighting Systems.”

Ferruzzi, Mario; Hamaker, Bruce R and Mattes, Richard D; food science, foods & nutrition, from Pepsico Inc./ World Trading Co., \$101,250, “Effects of Spices on Post-Prandial Glucose Response from Potato Snacks.”

Flaherty, Elizabeth A; forestry & natural resources, from Polar Bears International, \$1,400, “Application of 2d Photographs to Estimate Size and Condition of Free-Ranging Polar Bears Near Churchill, Manitoba.”

Flaherty, Elizabeth A; forestry & natural resources, from Indiana Department of Natural Resources, \$3,500, “Evaluating Human Values and Attitudes Regarding Mesocarnivores and Their Management in Indiana.”

Freed, Andrew M; earth & atmospheric sciences, from UNAVCO, \$12,500, “Coconet Graduate Fellowship Roby Douilly.”

Freed, Andrew M; earth & atmospheric sciences, from UNAVCO, \$12,500, “Coconet Graduate Fellowship for Steeve Symithe; Modification 2.”

French, Richard M; engineering technology, from Sinclair Community College, \$6,800, “Learning, Engaging, Attaining, and Doing with Guitars Used in Teaching Achievable Real Situations in Science, Technology, Engineering & Mathematics (STEM) (Lead Guitar in STEM).”

French, Richard M; engineering technology, from Sinclair Community College, \$18,163, “Learning, Engaging, Attaining, and Doing with Guitars Used in Teaching Achievable Real Situations in Science, Technology, Engineering & Mathematics (STEM) (Lead Guitar in STEM).”

Frosch, Robert J; civil engineering, from University of Alabama, \$7,961, “Graduate Support for Quang Nguyen.”

Frueh, Carolin E; aeronautical & astronautical engineering, from University of Colorado at Boulder, \$13,125, “Observability of Space Debris Objects; Modification 1.”

Garimella, Suresh V; Vice President for Research, from Purdue University, \$41,600, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant, Indiana University Purdue University at Indianapolis (IUPUI) Science.”

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

Garimella, Suresh V; Vice President for Research, from Purdue University, \$20,800, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant, Indiana University Purdue University at Indianapolis (IUPUI) — Engineering & Technology.”

Geahlen, Robert L; medicinal chemistry & molecular pharmacology, from Purdue University, \$6,000, “Analysis of Syk-Dependent Alternative Splicing.”

Gleich, David F; computer science, from Massachusetts Institute of Technology, \$102,458, “Swept Time-Space Domain Decomposition Rule for Breaking the Latency Barrier.”

Gondhalekar, Ameya D; entomology, from Dow Agro Sciences, \$16,000, “Evaluation of Activesense Cockroach Monitoring Sensor — Dow Agrosience Prototype.”

Gore, Jay P and Meyer, Scott E; mechanical engineering, from Siemens Energy & Automation Inc., \$223,746, “Diesel Autoignition Experimental Campaign.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$6,125, "Support for the ASCE Journal of Hydrologic Engineering."

Grant, Michael J; aeronautical & astronautical engineering, from Sandia National Laboratories, \$10,000, "Adaptive Control and Configuration Management Techniques."

Grigorescu, Elena; computer science, from Purdue University, \$9,479, "1516 Purdue Research Foundation (PRF) Summer Faculty Grant."

Groll, Eckhard A; mechanical engineering, from Electric Power Research Institute (EPRI), \$51,152, "Performance Testing of a Level 1 Unitary Split-System Heat Pump."

Groll, Eckhard A; Weibel, Justin A and Garimella, Suresh V; mechanical engineering, from Duke Energy Indiana, Inc., \$60,000, "Updraft Tower Dry Cooling and Waste Heat Utilization for Power Plants."

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

Hamaker, Bruce R; Campanella, Osvaldo H; Mauer, Lisa J and Narsimhan, Ganesh; food science, agricultural & biological engineering, from McCain Foods Limited, \$66,642, "Improvement of Potato French Fry Quality and Reduction of Added Ingredients by Using and Manipulating Endogenous Pectin/Starch."

Handwerker, Carol A and Blendell, John E; materials engineering, from Foresite, Inc, \$63,405, "Development of a Lead-Free Process Qualification Procedure."

Handwerker, Carol A; Blendell, John E and Subbarayan-Shastri, Ganesh; materials engineering, mechanical engineering, from Missile Defense Agency, \$129,699, "Reliability Risk Management of Gold Contaminated Tin-Lead and Lead-Free Solder Joints in Military Electronics."

Handwerker, Carol A; Zhao, Fu; Iyer, Ananth V and Sutherland, John W; materials engineering, mechanical engineering, management, environmental & ecological engineering, from Ames Laboratory, \$282,785, "Critical Materials Institute; Modification 4."

Handy, James C; Technical Assistance Program, from Indiana Department of Transportation, \$77,000, "SPR-4000 Mechanic/Maintenance Training and Certification Program."

Hart, Julie A; field extension educators, from Ivy Technology State College, \$20,224, "Coordination of Workforce and Economic Development Partnership with Ivy Technology Year 2016."

Hartman, Nathan W; engineering administration engineering experiment, from UI Labs, \$0, "DMDII Membership Agreement Including Articles of Collaboration and Institutional Proposal (IP) Management Plan."

Hartman, Nathan W; computer graphics technology, from PDES Inc, \$15,001, "Hosting PDES Inc Websites."

Heister, Stephen D; aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$180,000, "Rotating Detonation Engine (RDE) Combustion for Rocket Applications."

Hertel, Thomas W; agricultural economics, from Food & Ag Org of the UN, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

Hoffherr, Megan B; field extension educators, from Community Foundation Alliance Inc, \$3,150, "7th Grade Science Sensation."

Hoffherr, Megan B; field extension educators, from Community Foundation Alliance Inc, \$1,000, "Power of You — Girls Empowerment Program."

Hogenesch, Harm; comparative pathobiology, from Jackson Laboratory, the, \$132,161, "CPDM: Cloning a Gene that Regulates Eosinophil Function."

Hountz, Randall A; Technical Assistance Program, from Indiana University, \$1,094,323, "Great Lakes Practice Transformation Network."

Hu, Changdeng and Jiang, Wen; cancer research center, biological sciences, from Purdue University, \$5,000, "Discovery of Small Molecule Inhibitor of PRMT5/MEP50 Interaction Using Cryo-Electron Microscopic (EM)."

Hu, Changdeng; cancer research center, from Purdue University, \$3,100, "Generation of PRMT5 Transgenic Mice for Prostate Cancer Research."

Hu, Y Charlie; electrical & computer engineering, from Intel Corporation, \$100,000, "Intel Gift Funding."

Huang, Chi-Hua; agronomy, from Advanced Design & Machine, \$900, "Liming Research Program."

Ileleji, Klein and Martin, Chad A; agricultural & biological engineering, from Indiana FFA Foundation Inc, \$8,114, "Indiana Biofuels

Science Laboratory Educator In-Service Training."

Ince, Ayhan; engineering technology, from Purdue University, \$9,477, "1516 Purdue Research Foundation (PRF) Summer Faculty Grant."

Jin, Ge; computer information technology — Calumet campus, from Purdue University, \$9,418, "1516 Purdue Research Foundation (PRF) Summer Faculty Grant."

Johnson, Carla J; curriculum & instruction, from Battelle Memorial Institute, \$325,000, "Battelle — Army Educational Outreach Program Cooperative Agreement."

Johnson, William G; botany & plant pathology, from Dow Agro Sciences, \$5,000, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Land O' Lakes Inc., \$7,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from United Soybean Board, \$330,790, "USB Multistate Herbicide Resistant Crops and Weeds — Year 1."

Johnston, Cliff T; agronomy, from Clay Minerals Society, the, \$24,951, "Memorandum of Understanding Between Department of Agronomy Purdue University and Clay Mineral Society."

Jung, Byunghoo; electrical & computer engineering, from Accups LLC, \$21,060, "STTR Phase 1: 3-D Position Sensing Utilizing Wireless Low Frequency Magnetic Beacon and its Application to a 3-D Man-Machine Interaction Device."

Kasinski, Andrea L; biological sciences, from PHS-NIH National Cancer Institute, \$220,181, "Identification and Therapeutic Application of Mirna-Drivers in Lung Cancer."

Key, Nicole L; mechanical engineering, from Honeywell Inc., \$22,500, "Centrifugal Compressor Research with Different Inlet Configurations."

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

Key, Nicole L; mechanical engineering, from Rolls-Royce, Inc., \$93,116, "3-Stage Compressor Research for Rear Block Performance."

Key, Nicole L; mechanical engineering, from National Aeronautics and Space Administration, \$100,000, "Toward Understanding Tip Leakage Flows in Small Compressor Cores Including Stator Leakage Flow."

Khabeer, Suad; Afro-American Studies Center, from Michigan State University, \$4,465, “Muslims in the Midwest: An Oral History.”

Kilaz, Gozdem and **Cooper, Bruce R**; biological sciences, from Office of Naval Research, \$297,443, “Multidimensional Gas Chromatography with Mass Spectrometry for Aviation Fuels.”

Kim, Han Sung; mechanical engineering — Calumet campus, from Purdue University, \$10,400, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Kinnally, Cara A; foreign language & literature, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Kinzig, Kimberly P; psychological science, from Purdue University, \$30,000, “EVPRP Bridge Funding.”

Kirchmaier, Ann L; biochemistry, from Purdue University, \$4,474, “Hi-Seq Analyses of Changes in RNA Expression Profiles and Their Association with Novel Epigenetic States.”

Klimeck, Gerhard; electrical & computer engineering, from University of California-Los Angeles, \$190,000, “Center of Function Accelerated Nanomaterial Engineering (FAME): Atomistic Modeling of RRAM Switching Behavior; Amendment 5.”

Klimeck, Gerhard; electrical & computer engineering, from University of Wisconsin-Madison, \$370,000, “NSolid State Quantum Computing Using Spin Qubits in Silicon Quantum Dots; Amendment 8.”

Klimeck, Gerhard; electrical & computer engineering, from Purdue University, \$309,770, “iCHEER: 1516 Allocation (Does Not Include Grads).” (a Discovery Park award — Network for Computational Nanotechnology)

Kolar, Deanna L; management, from Endocyte, Inc., \$2,500, “Experiential Learning Projects for Purdue University Students (HCC).”

Kopce, Andrew J; English & linguistics — Fort Wayne campus, from Purdue University, \$9,417, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Kreisler, Regina A; medical education, from Indiana University, \$7,500, “FY15-16 Indiana University School of Medicine (IUSM)-Lafayette Student and Faculty Recruitment and Retention.”

Kubis, Tillmann C; Povolotskyi, Mykhailo and **Klimeck, Gerhard**; electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, “NEMO5: Engineering Band Tails and Band to Band Tunneling in III-V Semiconductors.” (a Discovery Park award — Network for Computational Nanotechnology)

Kuhn, Richard J; biological sciences, from Winifred B. Bilsland Endowment, \$10,217, “Karki, Anju.”

Laird, Carl D; chemical engineering, from Eli Lilly and Company, \$113,552, “Detemination of Flexibility and Resiliency of a Manufacturing Process.”

Lang, Rafael F; physics, from Purdue University, \$9,465, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Lelievre, Sophie A and **Knapp, Deborah W**; basic medical science, veterinary clinical science, from Purdue University, \$3,000, “Develop 3-D Cell Culture Models of Bladder Cancer for Drug Assessment and Bladder Cancer Risk for Environmental Impact Assessment.” (a Discovery Park award — Birk Nanotechnology Center)

Leonard, Laurence B; Speech, Language and Hearing Sciences, from Purdue University, \$80,459, “EVPRP Bridge Funding: Laurence Leonard.”

Li, Ninghui; computer science, from North Carolina State University, \$29,956, “North Carolina State University Science of Security Lablet — Amendment 3 for Grant 107122.”

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

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

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$4,000, “Multi-Sponsored Gift-Sensory.”

Liceaga, Andrea M; food science, from Maplehurst Bakeries Inc., \$3,015, “Multi-Sponsored Gift-Sensory.”

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

Lin, Xiaozhu; electrical & computer engineering, from Purdue University, \$28,281, “1415 Purdue Research Foundation (PRF) Research Grant.”

Linnes, Jacqueline C; biomedical engineering, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Lisch, Damon R; botany & plant pathology, from University of Minnesota, \$278,801, “Causes and Consequences of Epigenetic Variation in Maize.”

Litster, James D; Chadwick, Keith; Nagy, Zoltan and **Taylor, Lynne S**; chemical engineering, industrial & physical pharmacy, from Rutgers State University, \$266,000, “US-Ireland Partnership in Continuous Manufacturing.”

Liu, Qiang; management, from Purdue University, \$9,479, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Love, David J; electrical & computer engineering, from Raytheon, \$25,000, “Retrodirective Array for Coherent Transmissions; Amendment 1.”

Love, David J; electrical & computer engineering, from Massachusetts Institute of Technology Lincoln Lab, \$98,559, “Distributed Signal Processing for High Altitude Relays.”

Lucht, Robert P; mechanical engineering, from U.S. Department of Energy, \$120,000, “Polarization Spectroscopy and Electronic- Resonance-Enhanced Coherent Anti-Stokes.”

Luke, Eileen M; CERIS, from Animal Plant Health Inspection Service, \$90,471, “Cooperative Agricultural Pest Survey Information Services (CAPSIS) FY16.”

Lundstrom, Mark S and **Kubis, Tillmann C**; electrical & computer engineering, from Northwestern University, \$110,000, “Emerging Frontiers in Research and Innovation (EFRI) Two-Dimensional Atomic-layer Research and Engineering (2-DARE): Scalable Growth and Anti-Ambipolar Heterojunction Devices, Amendment 1.” (a Discovery Park award — Network for Computational Nanotechnology)

Lynall, Matthew D; management, from Eli Lilly and Company, \$5,000, “Krannerts Experiential Learning Initiative (ELI).”

Macheret, Sergey O and **Alexeenko, Alina**; aeronautical & astronautical engineering, from National Institute Aerospace, \$82,738, “Independent Assessment of Nsnw’s Magnetoshell Aerocapture Concept (MAC) for Placing “large” Payloads in Mars Orbit for Subsequent Surface Delivery.”

Marais, Karen; aeronautical & astronautical engineering, from National Institute Aerospace, \$53,775, “CEP and WATRS Airspace Regions Inefficiency Study for Pair-wise Trajectory Management Cost/Benefit Analysis.”

Martinez, Kimber J; youth development & agricultural education, from Just Beginnings Collaborative, \$225,000, “MESA JBC Child Sexual Abuse Prevention.”

Mattes, Richard D; foods & nutrition, from National Institute of Food & Agriculture, \$30,000, “High Intensity Sweeteners: Science and Controversy.”

McLennan, Michael J; academic technologies, from Purdue University, \$134,460, “INCR: PURR, FY15-16.”

McNamara, Kevin T; agricultural economics, from Family Health International, \$1,277,416, “Afghanistan University Support & Workforce Development Program.”

Mei, Jianguo; chemistry, from Furcifer Inc, \$132,472, “Electroactive Polymers for Electrochromic Applications.”

Mengiste, Tesfaye D; botany & plant pathology, from Kansas State University, \$150,634, “Genetic Improvement of Sorghum for Resistance to Fungal Pathogens.”

Minton, David A; earth & atmospheric sciences, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Murawski, Matthew M; pharmacy practice, from Indiana Clinical & Translational Science Institute, \$17,500, “Optimizing Chronic Illness Care with an Adverse Drug Reaction Event Side Effect Screener (the ADDRESS Pilot Study).”

Murray, Michael D; pharmacy practice, from Regenstrief Institute Inc, \$41,998, “Regenstrief Center for Healthcare Improvement and Research (RCHIR) Project.”

Nachappa, Punya B; biology — Fort Wayne campus, from Indiana Academy of Science, \$2,119, “Analysis of Vector Competence in Potential Thrips Vector Species to Transmit Soybean Vein Necrosis Virus.”

Ogas, Joseph P and Gowher, Humaira; biochemistry, from Purdue University, \$10,000, “CHD5 promotes H2A.Z and Contributes to Gene Expression in Neuroblastoma SH-SY5Y Cells.”

Ogata, Niwako; veterinary clinical science, from Royal Canin Sas, \$2,015, “Influence of Housing and Handling on Hair Cortisol in Cats 2.”

Oliver, Haley F and Singh, Manpreet; food science, from National Institute of Food & Agriculture, \$308,570, “Prevalence, Persistence and Control Strategies of *Listeria* ssp. and *Salmonella* in Retail Grocery Produce Storage and Sale Environments.”

Olszewski, Lynn T; nursing — Calumet campus, from Indiana University, \$440,000, “Northwest Indiana Area Health Education Center (AHEC) Operating Support 2015-16 (State Funds).”

Osswald, Sebastian; materials engineering, from Purdue University, \$9,441, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Park, Chiwook; medicinal chemistry & molecular pharmacology, from Purdue University, \$60,000, “EVPRP Bridge Funding: Chiwook Park.”

Pastakia, Sonak D and Karwa, Rakhi; pharmacy practice, from Indiana University, \$27,334, “Academic Model Providing Access to Healthcare (AMPATH) Plus.”

Patton, Aaron J; horticulture & landscape architecture, from Pbi Gordon Corp., \$8,400, “Multi-Sponsored.”

Patton, Aaron J; horticulture & landscape architecture, from Bayer CropScience, \$9,500, “Multi-Sponsored.”

Patton, Aaron J; horticulture & landscape architecture, from Dow Agro Sciences, \$10,000, “Multi-Sponsored.”

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$25,000, “Turfgrass Research.”

Perissin, Daniele and Qin, Yuxiao; civil engineering, from Virginia Department of Transportation, \$21,166, “Monitoring of I-77 Slopes Using Satellite Remote Sensing.”

Peroulis, Dimitrios; Mousoulis, Charilaos and Xuan, Yi; electrical & computer engineering, from Landauer, \$380,000, “Micro-electromechanical System (MEMS)-Scale Accumulating Radiation Sensor Program.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; Balakrishnan, Venkataramanan and Gray, Jeffery L; electrical & computer engineering, from American University of the Middle East, \$1,712,429, “Curriculum Development and Laboratory Support Package: Electrical Engineering Program.”

Peroulis, Dimitrios; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$150,000, “Tunable Notch Filters for Full Spectrum Staring ES Receiver w/Instantaneous DF.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from National Instruments Corporation, \$75,000, “Center for Electronic Defense Systems.”

Pijut, Paula M; forestry & natural resources, from US Endowment Forestry Communities, \$28,004, “Development of Transgenic Black Ash (*Fraxinus Nigra*) Expressing a *Bacillus Thuringiensis* (Bt) Protein for Management of the Emerald Ash Borer, and Genome Editing for Reproductive Sterility.”

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

Pinan-Llamas, Aranzazu; geosciences — Fort Wayne campus, from Purdue University, \$9,417, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Pipes, R Byron; materials engineering, from The Boeing Company, \$50,000, “CDM HUB (Consortium).”

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Japanese Aerospace Exploration, \$89,346, “Physics of Hypergolic Liquid Jets Impingement.”

Pourpoint, Timothee L and Campanella, Osvaldo H; aeronautical & astronautical engineering, agricultural & biological engineering, from Aerojet Rocketdyne Inc, \$7,580, “Gelled Hydrazine Characterization Testing.”

Pourpoint, Timothee L and Anderson, William E; aeronautical & astronautical engineering, from Missile Defense Agency, \$217,881, “Investigation of Root Causes of Combustion Instability.”

Powley, Terry L; psychological science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$522,967, “Autonomic Control of Body Weight and Feeding.”

Prokopy, Linda S; forestry & natural resources, from Nature Conservancy (Indianapolis, Indiana), \$172,883, “Formative Evaluation of Saginaw Bay Watershed Project.”

Purpura, David J; child development & family studies, from University of Denver, \$18,551, “Evaluating the Efficacy of Learning Trajectories in Early Mathematics.”

Qi, Minghao; electrical & computer engineering, from Stanford University, \$50,000, “Laser Accelerators on a Chip.”

Quinn, Alexander J; electrical & computer engineering, from Purdue University, \$9,456, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Quinn, Vanessa S; biological sciences — North Central campus, from Indiana Academy of Science, \$627, “Roadkill Hotspots in the Dunes National Park.”

Rainey, Katherine M; agronomy, from University of Minnesota, \$31,080, “Initiation of a Genomic Selection Pipeline for Public Soybean Breeders in the North Central Region.”

Ramani, Karthik; mechanical engineering, from University of Maryland, \$149,940, “CHS: Small: C3DaR-Collection, Creation, and Collaboration for Engineering Design and Reflection; Amendment A.”

Ramirez, Julio A; civil engineering, from Purdue University, \$12,799, “INCR: Bridge Funding, Julio Ramirez.” (a Discovery Park award — NEEScomm)

Ramkrishna, Doraiswami; chemical engineering, from Abbvie Inc, \$30,000, “Modeling of Crystal Morphology and Polymorphs.”

Richmond, Douglas S; entomology, from Chicago District Golf Association, \$1,000, “Turfgrass Entomology Research.”

Rochet, Jean-Christophe; medicinal chemistry & molecular pharmacology, from Winifred B. Bilsland Endowment, \$5,500, “Ysselstein, Daniel.”

Rogat, Toni K; educational studies, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Rokhinson, Leonid P and **Lyanda-Geller, Yuli**; physics, from Office of Naval Research, \$40,000, “Parafermion-Supporting Platform for Topological Quantum Information Processing.”

Roy, Kaushik; Datta, Supriyo and **Raghunathan, Anand**; electrical & computer engineering, from University of Minnesota, \$480,000, “Center for Spintronic Materials, Interfaces and Novel Architectures — C-Spin, Amendment 6.”

Roy, Kaushik; electrical & computer engineering, from University of Southern California, \$70,000, “Embedded POWER Optimized Systems Using Near and Super-threshold Computing Fabric (EMPOWER).”

Rumsey, Suzanne K; English & linguistics — Fort Wayne campus, from Purdue University, \$9,459, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Sacks, Elisha P; computer science, from Intel Corporation, \$60,000, “Robust Solid Modeling for Process Modeling Applications.”

Sadof, Clifford S; entomology, from Michigan State University, \$11,250, “Inter-regional Research Project 4 Minor Crop Pest Management for the North Central Region.”

San Martin-Gonzalez, Maria F; food science, from Sonoco Products Company, \$340, “Multi-Sponsor Gift Funds.”

Saraswat, Dharmendra; agricultural & biological engineering, from University of Nebraska-Lincoln, \$9,300, “Extension Learning Network for Unmanned Aircraft Systems in Agriculture.”

Schinckel, Allan P and **Richert, Brian T**; animal sciences, from National Pork Board, \$5,000, “Evaluation of Methods to Evaluate Sorting Accuracy and its Impact on Sort Loss and Variation in Carcass Weight in Pigs.”

Schoonmaker, Jon and **Donkin, Shawn S**; animal sciences, from Clabber Girl, \$65,000, “Effect of a Protected Buffer on Ruminal pH Changes and Performance of Beef Feedlot Steers During Adaptation from a Forage to a Grain-Based Diet.”

Seleem, Mohamed; comparative pathology, from Purdue University, \$9,417, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Sennott Winchester, Christie A; sociology, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Shen, Jie; mathematics, from Air Force Office of Scientific Research, \$109,583, “Solving Boltzmann and Fokker-Planck Equations Using Sparse Representation.”

Shie, Wesley R; continuing studies — Fort Wayne campus, from Indiana Economic Development Corporation, \$13,606, “Northeast Indiana Small Business Development Center CY 2015 — State.”

Siegmund, Thomas H and **Tomar, Vikas**; mechanical engineering, aeronautical & astronautical engineering, from Oregon

State University, \$152,172, “New Mechanistic Models of Creep-Fatigue Crack Growth Interactions for Advanced High Temperature Reactor Components; Amendment 2.”

Singh, Manpreet; food science, from Auburn University, \$24,964, “FDA Food Inspector Training.”

Singh, Manpreet; food science, from Tim Smith, \$75, “Multi-Sponsored Gift.”

Slabaugh, Carson D and **Anderson, William E**; aeronautical & astronautical engineering, from Siemens Energy & Automation Inc., \$185,656, “Siemens Premixed Combustion Instability: Phase 2A, Single-Element Parametric Testing.”

Sloan, Mary Anne; global affairs, from Regional Mental Health Center, \$5,000, “Multi-Sponsor HTAP.”

Sloan, Mary Anne; global affairs, from Classic Events Inc, \$500, “Multi-Sponsor Account I-HITEC.”

Stan, Silvia; foods & nutrition, from Purdue University, \$9,475, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Stanciu, Lia A; materials engineering, from Purdue University, \$57,551, “Bridge Funding: Lia Stanciu.”

Steffens, Rachel F; social science — North Central campus, from Purdue University, \$9,413, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Strachan, Alejandro H; materials engineering, from The Boeing Company, \$50,000, “Boeing — Purdue Atoms to Aircraft 2015.” (a Discovery Park award — Network for Computational Nanotechnology)

Stroshine, Richard L; agricultural & biological engineering, from Weaver Popcorn Company, \$500, “Stroshine Multi-Sponsor Gift.”

Subbarayan-Shastri, Ganesh; mechanical engineering, from Semiconductor Research Corporation, \$95,000, “Characterization of Mechanical Properties of Passivated Metal Lines.”

Sundaram, Shreyas; electrical & computer engineering, from Intel Corporation, \$30,000, “Discrete Control of Dynamic Computing Systems.”

Swabey, Matthew A; electrical & computer engineering, from Intel Corporation, \$30,000, “Intel- Quark Galileo Senior Design.”

Taylor, Lynne S; industrial & physical pharmacy, from Merck & Company Inc., \$73,000, “Utilizing Fluorescence Spectroscopy to Monitor Amorphous-Amorphous Phase Separation of Amorphous Solid Dispersions (ASD).”

Taylor, Zoe E; child development & family studies, from Purdue University, \$9,479, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Tokuhiro, Akira T; nuclear engineering, from University of Idaho, \$50,000, “Characterization of Creep-Fatigue Crack Growth in Alloy 709 and Prediction of Service Lives in Nuclear Reactor Component, RC-3.2: Creep and Creep-Fatigue Crack Growth Mechanisms.”

Tran, Elizabeth; biochemistry, from Purdue University, \$30,000, “Mapping RNA Helicase Substrates in Vivo: Identification of Novel Targets for Dbp2.”

Tuinstra, Mitchell R; Weil, Clifford F and Dilkes, Brian; agronomy, biochemistry, from Kansas State University, \$274,207, “Trait Development Pipeline for Food and Feed Value in Sorghum.”

Tulodziecki, Dana; philosophy, from Purdue University, \$9,478, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Tyner, Wallace E; agricultural economics, from National Biodiesel Board, \$5,000, “Biodiesel Workshop Participation and Related Research.”

Tzempelikos, Athanasios; civil engineering, from Kawneer Company Inc, \$30,000, “Kawneer Company Inc.”

Umberger, Gloria H; technology — administration, from General Motors Foundation, \$10,000, “Senior Capstone.”

Wang, Fuqiang and Xie, Wei; physics, from U.S. Department of Energy, \$545,000, “Study QCD Matter Under Extreme Conditions by Particle Correlation and Heavy Flavor Probes.”

Wang, Xiuling; mechanical engineering — Calumet campus, from Purdue University, \$10,400, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Wassgren, Carl R; mechanical engineering, from BASF Corporation, \$100,000, “Enhancements of Particle Flow Simulation Methods by Adding Particle Size Change Mechanisms.”

Weaver, Connie M and McCabe, George P; foods & nutrition, statistics, from National Institutes of Health, \$49,697, “Berries and Bones.”

Webb, Kevin J and Low, Philip S; electrical & computer engineering, chemistry, from PHS-NIH National Cancer Institute, \$150,727, “Optical Imaging of Targeted Anti-Cancer Drug Delivery Kinetics.”

Wei, Alexander and Yuan, Chongli; chemistry, chemical engineering, from Sumitomo Chemical Company, \$248,204, “Nano-Brighteners for Chemical Sensing of Urinary Analytes.”

Wells, Ellen M; health sciences, from Purdue University, \$9,477, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Wendt, Michael K; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$214,721, “Targeting FGFR to Prevent the Outgrowth of Metastatic Breast Cancer.”

Wise, Kiersten A; botany & plant pathology, from University of Wisconsin-Madison, \$10,000, “Improving Our Understanding of Science, Technology, Engineering & Mathematics (STEM) Canker and How to Manage it in Soybean Across the Midwest.”

Wise, Kiersten A; botany & plant pathology, from Southern Illinois University, \$10,000, “Seedling Diseases: Identification, Management and Education.”

Wise, Kiersten A; botany & plant pathology, from Iowa State University, \$20,000, “Integrated Management of Soybean Sudden Death Syndrome-Part II.”

Wise, Kiersten A; botany & plant pathology, from United Soybean Board, \$365,995, “Improved Management of Charcoal Rot and Science, Technology, Engineering & Mathematics (STEM) Canker (Year 2 of 1520-532-5608).”

Wise, Kiersten A; botany & plant pathology, from North Central Soybean Research Program, \$42,250, “Disease Study Group: Focus on New and Emerging Soybean Diseases - Year 3.”

Witkoske, Teresa J; field extension educators, from Wabash County United Fund, \$1,500, “Strengthening Early Literacy in Wabash County.”

Witt, Michael C; academic technologies, from Purdue University, \$236,863, “INCR: PURR, FY 15-16.”

Woeste, Keith E and Labonte, Nicholas R; forestry & natural resources, from American Chestnut Foundation, the, \$8,000, “Assessing the Functional Genetic Diversity of Blight Resistance in Chinese Chestnut (*Castanea Mollissima* Blume) by Whole-Genome Resequencing of a Diverse Germplasm Collection.”

Woloshuk, Charles P; botany & plant pathology, from Weaver Popcorn Company, \$200, “Mycotoxin Research.”

Zaspel, Jennifer M; entomology, from Purdue University, \$9,479, “1516 Purdue Research Foundation (PRF) Summer Faculty Grant.”

Zhou, Chenn Q; mechanical engineering — Calumet campus, from U.S. Steel Corporation, \$45,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.”

Zhou, Chenn Q; mechanical engineering — Calumet campus, from Arcelormittal USA, \$45,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.” ■

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