

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

December 2018

Abbott to Chen

Abbott, Angela R; health and human sciences administration, from Indiana Family & Social Services Administration, \$174,439, "Purdue Extension Approach to Preventing Substance Abuse."

Abbott, Angela R and Palmer, Laura A; health and human sciences administration, from Pennsylvania State University, \$23,045, "CYFAR Coach."

Appenzeller, Joerg; electrical & computer engineering, from Semiconductor Research Corporation, \$408,959, "E2CDA: Type I: Probabilistic Spin Logic for Low-Energy Boolean and Non-Boolean Computing; Amendment 2."

Arrieta Diaz, Andres; mechanical engineering, from Air Force Office of Scientific Research, \$164,896, "On-Demand Stiffness Selectivity for Morphing Systems."

Ashcraft, Michelle L; McDole, Junia I; Bowling, Dennis J and Carpenter, Daniel W; student success, from Indiana Commission for Higher Education, \$2,000, "2018-2019 Scholarcorps AmeriCorps Program."

Atallah, Mikhail J; computer science, from Qatar University, \$160,000, "The Garbled Computer: Towards Computing without Seeing."

Bahr, David F; materials engineering, from Los Alamos National Laboratory, \$45,000, "Assessing the Properties of Mock Energetic Materials."

Bartholomew, Theodore T and Gundel, Brittany E; educational studies, from Indiana Clinical & Translational Science Institute, \$7,548, "Assessment of Mental Health Among an Indiana Refugee Community."

Beaulieu, Lionel J; Cruz-Porter, Annie K; Kumar, Indraneel; Zhالنin, Andriy V and Wilcox, Michael D; Office of Engagement administration, agriculture administration, from Economic Development Administration, \$160,000, "Harnessing the Economic Assets of Indiana Regions and Communities: Strengthening Information, Collaboration and Innovation."

Beckerman, Janna L; botany & plant pathology, from Michigan State University, \$16,250, "NCR Ornamental Horticulture Projects Non Oomycete Efficacy and Crop Safety."

Bertino, Elisa; computer science, from IBM, \$103,854, "IBM DAIS ITA; Grant 13000618."

Bhave, Sunil A; electrical & computer engineering, from Cornell University, \$78,250, "Control of Mechanical Quantum States Using Diamond Spins; Amendment 3; Grant 13000544."

Boerman, Jacquelyn P; animal sciences, from Diamond V Mills, Inc., \$55,445, "Multi Sponsor Voluntary Support."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue University, \$53,270, "FY 18-19 Purdue Research Foundation (PRF) Research Grants (60000019)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue University, \$22,021, "FY18-19 Purdue Research Foundation (PRF) Research Grants (60000019)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue University, \$26,951, "FY18-19 Purdue Research Foundation (PRF) Research Grants (60000019)."

Boltasseva, Alexandra; electrical & computer engineering, from Sandia National Laboratories, \$55,000, "PO 1757154 - Near Infrared Nanophotonics through Dynamic Control of Carrier Density in Conducting Ceramics; Amendment 3; Grant 14000290."

Braun, James E; mechanical engineering, from Duke Energy Indiana, Inc., \$50,000, "Center for High Performance Building Consortium."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$1,750, "China Research Programs."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$1,750, "China Research Programs."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$20,000, "China Research Programs."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$1,755, "China Research Programs."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$30,000, "China Research Programs."

Cai, Liping A; hospitality & tourism management, from South China University of Technology, \$14,750, "China Research Programs."

Cakmak, Mukerrem and Rahimi, Rahim; mechanical engineering, electrical & computer engineering, from Ford Motor Company, \$200,000, "An Investigation of Additive Manufacturing and Printed Technologies to Replace Bulky Copper Wiring Circuits in Automobiles." (a Discovery Park award – Birck Nanotechnology Center)

Chang, Chun-Ju; basic medicine science, from PHS-NIH National Cancer Institute, \$338,736, "Targeting Metformin-Directed Science, Technology, Engineering & Mathematics (STEM) Cell Fate in Triple Negative Breast Cancer."

Chen, Zhihong; Appenzeller, Joerg and Gupta, Sumeet Kumar; electrical & computer engineering, from Semiconductor Research Corporation, \$1,500,000, "New Limits - New Materials for Logic, Memory and Interconnects; Amendment 2; Grant 40001983." (a Discovery Park award -- Birck Nanotechnology Center)

Clase to Hamaker

Clase, Kari L and **Byrn, Stephen Robert**; agriculture & biological engineering program, pharmaceutical practice, from National Institute for Pharmaceutical Technology and Education, \$284,988, “NIPTE Education OLDP Pilot Project.”

Couetil, Laurent L; **Murray, Laura M** and **Tyson, Kira N**; veterinary clinical sciences, from Nortev Ltd, \$60,213, “Efficacy and Safety of Nebulized Dexamethasone in Asthmatic Horses.”

Cruz, Christian D; botany & plant pathology, from Foreign Agricultural Service, \$49,822, “Norman E. Borlaug International Science and Technology Fellowship Program Purdue University - Hosting Borlaug Fellow #5 from India: Wheat Blast.”

Das, Chittaranjan and **Luo, Zhao-Qing**; chemistry, biological sciences, from PHS-NIH National Institute of General Medical Science, \$413,311, “Mechanism of Atypical Ubiquitination and Deubiquitination by Bacterial Effectors.”

Deering, Amanda J; food science, from Greenagri Solutions, LLC, \$3,500, “Multi-Sponsored Gift Account.”

DeLaurentis, Daniel A; aeronautics & astronautics, from Science Applications International, \$175,800, “Modification #10 - TI-203, REVE, ARTE, MCTL.”

DeWoody, James Andrew; forestry & natural resources, from Welder, Bob & Bessie Wildlife Foundation, \$24,000, “Landscape Genetic and Genomic Approaches for the Conservation of Montezuma Quail.”

DeWoody, James Andrew; forestry & natural resources, from Texas A&M Agrilife Research, \$34,946, “Pupfish Population Genomics.”

Dydak, Ulrike; health sciences, from Indiana University, \$35,000, “Student Support for Emily Diller (Amendment 1 for Grant 40001919).”

Dyke, Shirley J and **Montoya Rodriguez, Herta P**; civil engineering, from U.S. Department of Transportation, \$5,000, “FHWA Graduate Fellowship.”

Ebert, David S; **Bingham, Clifton W**; **Ghafoor, Arif**; **Mou, Shaoshuai**; **Xi, Bowei**; **Bhargava, Bharat** and **Li, Ninghui**; electrical & computer engineering, computer science, aeronautics & astronautics, statistics, from Northrop Grumman Corporation, \$705,182, “Northrop Grumman - Year 10 Funding.” (a Discovery Park award – Center for Education and Research in Information Assurance and Security [CERIAS])

Farkas, Brian E; food science, from Beverly & Don Stephens III, \$25, “Multi-Sponsored Gift Fermentation.”

Farkas, Brian E; food science, from Benjamin T Vonderschmitt, \$150, “Multi-Sponsored Gift Fermentation.”

Farkas, Brian E; food science, from Liberty Hop Farm, \$100, “Multi-Sponsored Gift Fermentation.”

Farkas, Brian E; food science, from Tim Adair, \$42, “Multi-Sponsored Gift Fermentation.”

Farkas, Brian E; food science, from Dan Gleason, \$50, “Multi-Sponsored Gift Fermentation.”

Feng, Yaohua; food science, from Partnership for Food Safety Education, \$10,000, “Multi-Sponsored Gift.”

Feng, Yaohua; **Benjamin, Tamara J** and **Ellett, Jodee K**; food science, horticulture & landscape architecture, agriculture administration, from Indiana State Department of Agriculture, \$55,582, “Value-Adding Educational Program Enhancing Food Safety for Fruit and Vegetable Specialty Crop Growers.”

Filley, Timothy R and **Chaubey, Indrajeet**; agronomy, International Programs in Agriculture, from Universidad Nacional De San Agustin, \$515,209, “UNSA NEXUS-PH II.” (a Discovery Park award – Center for Environment)

Filley, Timothy R; International Programs in Agriculture, from Universidad Nacional De San Agustin, \$6,865,898, “UNSA NEXUS-PH II.”

Frueh, Carolin E; aeronautics & astronautics, from Air Force Office of Scientific Research, \$125,000, “Light Curve Inversion for Characterization of Objects with Concavities.”

Garimella, Suresh V; Executive Vice President for Research & Partnerships administration, from Eli Lilly and Company, \$6,415,068, “Lilly IB 2019.”

Garimella, Suresh V; mechanical engineering, from Laird Technologies, \$30,000, “Cooling Technologies Research Center (CTRC) 40001184.”

Garimella, Suresh V; mechanical engineering, from Raytheon, \$30,000, “Cooling Technologies Research Center (CTRC) 40001184.”

Garner, Allen L and **Zhang, Cankui**; nuclear engineering, agronomy, from Syngenta Limited, \$25,000, “Assessment of Electromagnetic Fields on Microtubules.”

Gillespie, Robert B; biology, from Agricultural Research Service, \$36,000, “Aquatic Ecology Assessment of Streams in the St. Joseph River Watershed.”

Goldenstein, Christopher S; mechanical engineering, from National Science Foundation, \$524,989, “Faculty Early Career Development (CAREER): Modulated Infrared Laser-Induced Fluorescence for Imaging Combustion Gases.”

Goldwasser, Dan; computer science, from Google Inc, \$100,000, “Voluntary Support Projects.”

Goodsell, Johnathan Eugene; **Mansson, Jan-Anders E** and **Pipes, R Byron**; Composites Manufacturing & Simulation Center, chemical engineering, aeronautics & astronautics, from Institute for Advanced Composites Mf Innovation, \$392,725, “IACMI Task 3.2 Bp4 - Optimized Carbon Fiber Intermediate Development to Enable High Volume Manufacturing of Lightweight Automotive Composites.”

Gounder, Rajamani P; chemical engineering, from U.S. Department of Energy, \$8,000, “Dynamic Multinuclear Active Sites Formed from Mobilized Single Atoms on Heterogeneous Supports for Selective Oxidation Catalysis.”

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$12,600, “Analysis and Design of Fixed Equipment.”

Hamaker, Bruce R; food science, from Mondelez Global LLC, \$143,132, “Strategies for Improving Calorie-and Sugar-Reduction through Carbohydrates for Mondelez Products.”

Hamaker, Bruce R; food science, from Novozymes North America Inc, \$186,205, “Elucidation of Corn Fiber Starch Granule-Binding Components for High Extraction Rate.”

Harbin to Lucht

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$33,933, “2018-19 Joint PhD Program for Graduate Support – Jiang Yizhi.”

Heister, Stephen D and **Slabaugh, Carson D**; aeronautics & astronautics, from Office of Naval Research, \$196,642, “Combustion in Solid Fuel Ramjets.”

Hertel, Thomas W; agriculture economics, from University of Chicago, \$77,939, “DMUU: Center for Robust Decision-Making Tools for Climate and Energy Policy; Amendment 7; Grant 10000964.”

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

Hill, Catherine A; entomology, from Bio-Gene Technology Limited, \$42,416, “Characterization of Bio-Gene Flavosone Formulation Invertebrate in Vivo Toxicity and in Vivo Pharmacological Analyses.”

Horgan, Briony H; earth, atmospheric and planetary sciences, from Jet Propulsion Laboratory, \$20,000, “Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater; Modification 7; Grant 108399.”

Hountz, Randall A; industrial engineering, from Northwestern University, \$125,621, “Midwest Small Practice Care Transformation Research Alliance – Year 3.” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hudmon, Karen S; pharmaceutical practice, from Indiana University, \$60,369, “IU Simon Cancer Center – P30 Supplement for Tobacco Cessation.”

Hung, Chen-Lung; physics & astronomy, from Office of Naval Research, \$171,170, “Ultracold Molecule Assembly with Photonic Crystals.”

Jacobs, Douglass F; **Couture, John J**; **Hardiman, Brady S** and **McNickle, Gordon G**; forestry & natural resources, botany & plant pathology, from American Chestnut Foundation, the, \$9,951, “Below Ground Competition of American Chestnut.”

Jiang, Wen; biological sciences, from Indiana University, \$251,652, “Atomic Models of Human Tau Filaments and Development of Tau Ligands.”

Johnson, William G; botany & plant pathology, from Sipcam Agro USA, Inc, \$12,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from BASF Corporation, \$22,000, “Weed Science Research Voluntary Support.”

Jones-Hall, Yava L and **Durkes, Abigail C**; comparative pathobiology, from New River Labs, \$9,249, “Histology-Guided Mass Spectrometry of Melanocytic and Mast Cell Tumors.”

Jung, Andreas; physics & astronomy, from Fermi National Accelerator Laboratory, \$30,306, “2019 Distinguished Researcher (DR) Awards.”

Kelly, Brian C; sociology, from Ohio State University, \$77,500, “Cross-Substance Policy Influences on Trajectories of Youth Marijuana & Tobacco Use.”

Kentamaa, Hilkka I; chemistry, from ConocoPhillips, \$10,000, “Comprehensive LC/MS Analysis of Organic Compounds in Water Samples.”

Klimeck, Gerhard; electrical & computer engineering, from Intel Corporation, \$75,000, “Network for Computational Nanotechnology (NCN) Membership (40001196).”

Knobloch, Neil A and **Charoenmuang, Mingla**; agriculture sciences education & communication, from University of Minnesota, \$11,354, “Developing Educational Resources on Sustainable Food Systems for High School Students.”

Krupke, Christian H; entomology, from Ohio State University, \$10,000, “Soybean Entomology Research and Extension in the North Central Region.”

Kuang, Shihuan; animal sciences, from Adipo Therapeutics LLC, \$65,650, “Polymeric Nanoparticles for Inductive Browning of White Adipose Tissue.”

Kurdalak, Erik S; food science, from Indiana Design Consortium, Inc, \$500, “Pilot Plant Multi-Sponsored Gift.”

Kvam, Eric P; materials engineering, from National Aeronautics and Space Administration, \$14,000, “Senior Design Project – MSE 430 and 440 – Development of High Temperature OD Alloys for Additive Manufacturing of Aerospace Structural Components.”

Laird, Carl D; chemical engineering, from Sandia National Laboratories, \$119,899, “Advanced Formulations and Algorithms for Stochastic Optimization with Applications in Power Grid Management.”

Lane, Sean P; **Hennes, Erin P**; **Proctor, Robert W**; **Song, Xiaohui Carol** and **Zhao, Lan**; psychological sciences, research computing administration, from PHS-NIH National Institute on Alcohol Abuse, \$715,938, “Toward a Generalized Framework and Flexible Software Environment for Power Analysis of Alcohol Treatment Randomized Controlled Trials.”

Leung, Yuk Fai; biological sciences, from International Retinal Research Foundation, \$100,000, “Evaluation of New Drugs for Retinitis Pigmentosa with Zebrafish (41000401).”

Li, Kai Ming; **Krousgrill, Charles M** and **Zhang, Haiyan H**; mechanical engineering, engineering technology, from Fiat Chrysler Automobiles, \$300,000, “Prototype Development for Nvh Testing of Planetary Gear Set Sub-Assemblies.”

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$7,500, “Multi-Sponsored Gift- Sensory.”

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

Lindemann, Stephen R and **Hamaker, Bruce R**; food science, from Army Research Office, \$41,402, “Complex Substrates and Microbial Interactions: Does Substrate Chemical Structure Dictate Microbial Diversity and Function?”

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

Low, Philip S and **Low, Stewart A**; chemistry, from Novosteo Inc, \$67,500, “Targeting Therapeutics for Accelerated Bone Fracture Repair.” (a Discovery Park award – Drug Discovery administration)

Lucht, Robert P; **Meyer, Scott E** and **Slabaugh, Carson D**; aeronautics & astronautics, mechanical engineering, from Power Systems Manufacturing, LLC, \$78,656, “PLIF Image Testing of PSM Swozzle.”

Lucht, Robert P; aeronautics & astronautics, from Siemens Power Generation Inc, \$175,000, “Distributed Combustion Studies in the Purdue High-Pressure Gas Turbine Combustion Test Rig.”

Luke to Reklaitis

Luke, Eileen M and **Hill, Michael A**; Center for Environmental and Regulatory Information Systems (CERIS), from Animal Plant Health Inspection Service, \$88,493, “Cooperative Agricultural Pest Survey Information Services (CAPSIS) FY 19.”

MacDermid Wadsworth, Shelley; human development & family studies, from Indiana Family & Social Services Administration, \$5,000, “Voluntary Support Projects.”

Marinero-Caceres, Esteban E; materials engineering, from Office of Naval Research, \$300,000, “Topology and Magneto-Photonics: Novel Platform for Advanced Metasurface and Magnonic Devices.”

McCann, Maureen C; biological sciences, from Office of Naval Research, \$576,114, “Neptune Center for Power and Energy Research.”

McKee, Renee K; agriculture administration, from National 4-H Council, \$71,000, “4-H Healthy Habits.”

Mei, Jianguo; chemistry, from Office of Naval Research, \$164,797, “High Temperature Organic Semiconductors.”

Meyer, Terrence R; mechanical engineering, from Defense Threat Reduction Agency, \$300,452, “MHz-Rate Burst-Mode Spectroscopy and Imaging of Temperature and Species in Post-Detonation Fireballs.”

Mishra, Dharmendra K; food science, from Caulette K Talbert, \$75, “Multi-Sponsored Gift.”

Mishra, Dharmendra K; food science, from Mead Johnson Nutritional, \$7,200, “Computational Fluid Dynamic Simulation of a Horizontal Tank with Agitator 1.”

Mishra, Dharmendra K; food science, from Sweet Bettys Bakery LLC, \$50, “Multi-Sponsored Gift.”

Mukherjee, Partha P; mechanical engineering, from Texas A&M University, \$114,844, “Understanding and Strategies for Controlled Interfacial Phenomena in Lithium-Ion Batteries and Beyond; Amendment 1; Grant 14000379.”

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, \$35,000, “Mesoscale Interactions in Lithium Plating/Dendrite Formation.”

Mukherjee, Partha P; mechanical engineering, from Sandia National Laboratories, \$90,000, “Credible Computational Meshes from Ill-Defined Geometries Using Deep Machine Learning.”

Mukherjee, Partha P; mechanical engineering, from Texas Instruments, Inc., \$80,000, “Li-Ion Cell Cycle Life & Safety Research.”

Nagy, Zoltan; chemical engineering, from International Fine Particle Research Institute Inc, \$12,000, “IFPRI Gift.”

Neumeister, Norbert; physics & astronomy, from Fermi National Accelerator Laboratory, \$21,443, “2019 Distinguished Researcher Award Fermi Lab.”

Niyogi, Devdutta S; agronomy, from National Science Foundation, \$130,280, “2018 Hurricane Season: Assessing the Role of Antecedent Land State on Hurricane Post-Landfall Rainfall.”

Ohaire, Marguerite E; comparative pathobiology, from Indiana University, \$119,629, “Institutional Career Development Core.”

Oliver, Haley F; food science, from Diversey, Inc, \$54,295, “Study 8.0: Development of a Model to Establish Dry Biofilms on Glass Coupons.”

Pasupathy, Raghu; statistics, from Office of Naval Research, \$88,000, “Sampling Controlled Numerical Optimization.”

Patton, Aaron J; horticulture & landscape architecture, from Dow Agro Sciences, \$54,000, “Service and Site Access Agreement with Dow Agro Sciences, LLC.”

Patton, Aaron J; horticulture & landscape architecture, from Marubeni Corporation, \$7,000, “Efficacy of Hm0814 for Annual Bluegrass Control in Putting Greens.”

Pekarek, Steven D and **Aliprantis, Dionysios**; electrical & computer engineering, from Schweitzer Engineering Lab, Inc, \$362,000, “State-Based Control of Electric Power Systems with Model Prediction.”

Pekarek, Steven D and **Sudhoff, Scott D**; electrical & computer engineering, from Continuous Solutions, \$37,467, “Integrated Uuv Propulsion Architecture.”

Pipes, R Byron; aeronautics & astronautics, from Applied Composites Engineering, \$54,000, “Modeling and Simulation of a Composite Fan Blade Bling.”

Pluta, Scott R; biological sciences, from Whitehall Foundation, Inc., \$225,000, “Cortical Circuit Mechanisms for Feature Extraction During Active Touch.”

Poggie, Jonathan; aeronautics & astronautics, from Air Force Office of Scientific Research, \$180,992, “Unsteady Separation: Mechanism and Mitigation.”

Pourpoint, Timothee L; aeronautics & astronautics, from Naval Air Warfare Center (Aircraft Division), \$50,000, “Development of Low-Toxicity Liquid Propellant System for Orbital/Sub-Orbital.”

Powley, Terry L and **Phillips, Robert D**; psychological sciences, theatre, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$696,920, “Autonomic Control of Body Weight and Feeding.”

Pyrak-Nolte, Laura J; physics & astronomy, from Sandia National Laboratories, \$266,103, “Advanced Downhole Acoustic Sensing for Wellbore Integrity; Amendment 1; (NCE for Grant 14000347).”

Qu, Ming; civil engineering, from Oak Ridge National Laboratory, \$38,977, “Novel Heat Pump Integrated Underground Thermal Energy Storage for Shaping Electric Demand of Buildings.”

Rainey, Katherine Martin and **Ma, Jianxin**; agronomy, from Ohio State University, \$169,597, “Increasing the Rate of Genetic Gain for Yield in Soybean Breeding Programs.”

Ramanathan, Shiram; materials engineering, from University of California – San Diego, \$117,342, “Quantum Materials for Energy Efficient Neuromorphic Computing (Q-MEEN-C).”

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

Reklaitis, Gintaras V; **Gonzalez, Marcial** and **Nagy, Zoltan**; chemical engineering, mechanical engineering, from Rutgers State University, \$700,000, “Assessment of Industry 4.0 in Advancing Continuous Pharmaceutical Manufacturing.”

Rhoads to Wang

Rhoads, Jeffrey Frederick; mechanical engineering, from Level 6 Engineering LLC, \$20,000, “Designing a Standardized Test Protocol to Assess the Thermomechanical Response of Vibrating Polymer Bonded Composite Materials.”

Ribeiro, Fabio H; chemical engineering, from Pioneer Oil Company, \$15,000, “Cistar Industrial Consortium (40001938).”

Richmond, Douglas Scott; entomology, from PBI Gordon Corp., \$8,100, “Turfgrass Entomology Research.”

Risselada, Marije; veterinary clinical sciences, from SFC Fluidics, \$102,738, “Pilot Efficacy and Pharmacokinetics Study on Antibiotic Delivery through a Sustained Delivery Device in Dogs.”

Roy, Kaushik; electrical & computer engineering, from IBM, \$51,980, “Self-Aware Cognitive Services for Distributed Coalition Environments.”

Roy, Kaushik; electrical & computer engineering, from Semiconductor Research Corporation, \$6,101,859, “C-BRIC: Center for Brain-Inspired Computing Enabling Autonomous Intelligence; Amendment 5; Grant 40001859.”

Rozhon, Atina M; field extension, from Jennings County Community Foundation, \$372, “Reading Made Fun 2018.”

Sadof, Clifford S; entomology, from Michigan State University, \$12,500, “Managing Foliar Feeding Beetles.”

Sandhage, Kenneth H; materials engineering, from Massachusetts Institute of Technology, \$318,223, “Ceramic Castable Cement Tanks and Piping for Molten Salt.”

Sangha, Susan; psychological sciences, from PHS-NIH National Institute of Mental Health, \$384,662, “Neural Circuitry of Safety, Fear and Reward Cue Discrimination.”

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$178,903, “Pre-Clinical Evaluation Testing Agreement Studies: CMH-TBCD, CMH-PBST, CI-REUN, CI-REUA, CMH-VTMD, CMH-TPOC, REG-HTBA, CMH-VCTL, CI-LUND, CI-REUS, CMH-PEAT, and POC.”

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$78,639, “Pre-Clinical Evaluation Testing Agreement Studies: Ci-(Cmh)-Lumn, Reg-Tend, Ci-Luna, Reg-Htba, POC and Sentinels.”

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$300,000, “Capital Equipment Purchase for Bme Building.”

Schultheiss, Nathan C and **Holloway, Eric A**; chemical engineering, education administration, from Pioneer Oil Company, \$108,189, “Funding of Research Associate (Continuation).”

Seidl, Amanda H; speech, language & hearing sciences, from National Research Agency, \$10,000, “Mechanisms of Early Lexical Acquisition.”

Semperlotti, Fabio; mechanical engineering, from Sandia National Laboratories, \$98,000, “Development of Metamaterial-Based Technology for Subwavelength Elastic Wave Control; Amendment 4; (Grant 14000345).”

Shakouri, Ali; electrical & computer engineering, from Applied Materials, \$8,750, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART).” (a Discovery Park award – Birck Nanotechnology Center)

Shakouri, Ali; electrical & computer engineering, from Applied Materials, \$8,750, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART).” (a Discovery Park award – Birck Nanotechnology Center)

Shannahan, Jonathan H; health sciences, from PHS-NIH National Institute of Environment Health Science, \$249,000, “Disease-Induced Modification in Nanoparticle-Corona Identity and Toxicity.”

Skrynnikov, Nikolai R; chemistry, from Ohio State University, \$27,157, “Structural and Dynamic Studies of Histone Tails in Chromatin by Magnetic Resonance Spectroscopy.”

Slabaugh, Carson D; aeronautics & astronautics, from Siemens Energy & Automation Inc., \$115,000, “Siemens Premixed Combustion Instability: Phase 5.”

Telenko, Darcy E P; botany & plant pathology, from BASF Corporation, \$15,600, “Extension Voluntary Support.”

Tsoukalas, Lefteri; nuclear engineering, from Office of Naval Research, \$290,000, “Critical System Simulation Tool for Investigating the Resilience of a Cyberphysical Security Ecosystem.”

Turco, Ronald F; agronomy, from Indiana Corn Marketing Council, \$15,000, “St Mary Watershed Voluntary Support (Cost Share for 20000224 / 209968).”

Turco, Ronald F; agronomy, from Indiana Soybean Alliance, \$15,000, “St Mary Watershed Voluntary Support (Cost Share for 20000224 / 209968).”

Vacca, Andrea; agriculture & biological engineering program, from Science, Technology, Engineering & Mathematics (STEM) Di Mario a Morselli, \$5,100, “Experimental Activity of a Pressure Ripple Attenuator for Hydraulic Pumps.”

Vacca, Andrea; agriculture & biological engineering program, from NFPA Education and Technology Foundation, \$10,000, “Multi-Sponsored Gift.”

Vacca, Andrea; agriculture & biological engineering program, from NFPA Education and Technology Foundation, \$1,000, “Multi-Sponsored Gift.”

Voyles, Richard M; engineering technology, from Fiat Chrysler Automobiles, \$167,000, “Collaborative Robotic Installation and Inspection of Main Shaft Torlon Seals.”

Wang, Fuqiang; physics & astronomy, from U.S. Department of Energy, \$545,000, “Study QCD Matter Under Extreme Conditions by Particle Correlation and Heavy Flavor Probes in Relativistic Heavy Ion Collisions; Amendment 4; Grant 14000238.”

Wang, Haiyan; materials engineering, from Office of Naval Research, \$800,000, “Wang – Explore the Fundamentals for Field-Enhanced Mass Transport Phenomena in Ceramics.”

Wang, Haiyan; materials engineering, from Office of Naval Research, \$15,000, “Wang – Strain Driven Novel Layered Oxide Thin Films with Unique Functionalities.”

Wang, He; computer science, from Deuro Inc, \$30,000, “Multi Sponsor Voluntary Support.”

Webb to Zillich

Webb, Kevin J; electrical & computer engineering, from Army Research Office, \$60,000, “The Optomechanical Response of Nanostructured Materials.”

Weiner, Andrew M; electrical & computer engineering, from Oak Ridge National Laboratory, \$4,776, “A Quantum Interconnect for Matter Qubits Based on Frequency Encoded Photonic Qubits.”

Wharry, Janelle P; nuclear engineering, from National Science Foundation, \$68,873, “Collaborative Research: Tunable Control of Mixed Ionic and Electronic Conductivity through Ion Irradiation in Electroceramic Materials for Energy Storage System.”

Xia, Jianlin; mathematics, from National Science Foundation, \$10,000, “Conference on Fast Direct Solvers.”

Xu, Dongyan; Deng, Xinyan and Zhang, Xiangyu; engineering projects in community service (EPICS), mechanical engineering, from Office of Naval Research, \$1,029,372, “A Cross-Layer Framework for Retrofitting Robotic Vehicle Controllers.”

Xu, Dongyan; Lee, Byoungyoung; Payer, Mathias J and Zhang, Xiangyu; professional masters, computer science, from Office of Naval Research, \$964,512, “IoT-D: Towards Internets of Dialect-Speaking Things.”

Xu, Yunlin; nuclear engineering, from University of Michigan, \$137,639, “Advanced Method Study of the Direct 3-D Whole-Core High-Fidelity Neutron Transport Calculation for the Numerical Nuclear Reactor.”

Ye, Peide; electrical & computer engineering, from Applied Materials, \$48,000, “AMAT Gift.” (a Discovery Park award – Discovery Park administration).

Yih, Yuehwern; industrial engineering, from Agency for International Development, \$500,000, “LASER Buy-In: Tusome Case Study.”

Young, Bryan G; botany & plant pathology, from Kalo, Inc., \$5,250, “Multi-Sponsored Gift Account.”

Young, Bryan G; botany & plant pathology, from Precision Laboratories Inc., \$21,150, “Multi-Sponsored Gift Account.”

Zhang, Haiyan H; engineering technology, from Fiat Chrysler Automobiles, \$200,000, “Powertrain Designs for Additive Manufacturing.”

Zhang, Zhong-Yin; medchem/molecular phar, from PHS-NIH National Cancer Institute, \$325,618, “Structure/Function of Protein Tyrosine Phosphatases.”

Zhou, Chenn Qian and Silaen, Armin K; civs, from U.S. Steel Corporation, \$128,244, “USS Roughing Mill Training Simulator.”

Zhou, Chenn Qian; mechanical & civil engineering, from Nucor Steel Corp., \$45,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership (40001337).”

Zhuang, Qianlai; agronomy, from Jet Propulsion Laboratory, \$83,790, “High-Resolution Mapping of Dynamic Inundation in Boreal Wetlands for Carbon and Hydrological Studies on Seasonal to Interannual Scales.”

Zillich, Alan J; pharmaceutical practice, from Eskenazi Health, \$584,745, “Co-Funded Position in Adult Medicine with Eskenazi Hospital.” ■

Notice Regarding Sponsored Program Awards

The Sponsored Program Awards list is generated by Sponsored Program Administration. Questions concerning the information contained in these pages should be directed to Stephanie Willis at swillis@purdue.edu. ■