

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

May 2017

Abel to Bouman

Abel, Steven R; Ainslie, Paul J and Hicks, Jennifer L; _Office of Engagement, _from Indiana Department of Education, _\$210,965, _"Mathematics in Science, Technology and Engineering."

Abel, Steven R; Ainslie, Paul J and Hicks, Jennifer L; _Office of Engagement, _from Indiana Department of Education, _\$7,534, _"Mathematics in Science, Technology and Engineering."

Agrawal, Rakesh and Tawarmalani, Mohit; _chemical engineering, _management, _from ExxonMobil Research Engineering Company, _\$638,665, _"Optimization of Oil/Gas Processes and Process Flowsheets."

Aguilar, Ruben C; _biological sciences, _from National Institutes of Health, _\$226,623, _"Lowe Syndrome: Therapeutic Strategy by Drug Repositioning."

Ajuwon, Kolapo; _animal sciences, _from AB Agri Limited, _\$9,980, _"Swine Research."

Allebach, Jan P; _electrical & computer engineering, _from Hewlett Packard, _\$75,000, _"Person Detection and Recognition for Smart-home and Smartoffice – Expansion of Scope."

Allebach, Jan P; _electrical & computer engineering, _from Hewlett Packard, _\$75,000, _"Machine Learning for Personal Media Discovery."

Allebach, Jan P and Delp, Edward J; _electrical & computer engineering, _from Hewlett Packard, _\$75,000, _"Real-Time Object Detection and Recognition – Phase 2."

Applegate, Bruce M; _food science, _from Millisecond Technologies, Corp, _\$7,000, _"Food Microbiology Research."

Ballard, Roy W; _field extension educators, _from Indiana State Department of Agriculture, _\$58,000, _"Foodlink 2.0- Growing the Adoption and Use of Foodlink a Speciality Crop Decision Making Tool."

Basaran, Osman A; _chemical engineering, _from Dow Agro Sciences, _\$12,500, _"A Mechanistic Approach to Studying Agro-chemical Sprays – Part II."

Basaran, Osman A; _chemical engineering, _from Honeywell Inc., _\$25,000, _"Purdue Process Safety and Assurance Center(P2SAC)."

Beaulieu, Lionel J; _Track Express-Center for Regional Development, _from Office of Small Business & Entrepreneurship, _\$83,490, _"Southeast Small Business Development Center (SBDC) 2017 – State."

Beaulieu, Lionel J; _Track Express-Center for Regional Development, _from Office of Small Business & Entrshp, _\$148,922, _"South-east Small Business Development Center (SBDC) 2017 – Federal."

Bertino, Elisa; _computer science, _from Electronics and Telecommunications Research Institute, _\$50,185, _"Study on Key Hiding and Software Integrity Verification for Unmanned Vehicle."

Bhave, Sunil A; _electrical & computer engineering, _from Cornell University, _\$12,750, _"Control of Mechanical Quantum States Using Diamond Spins."

Boiarsky, Carolyn R and Morris, Karen L; _English and philosophy – Calumet Campus, _from National Writing Project, _\$20,000, _"2017-2018 Seed Advanced Institute to Scale-Up the NWP College-Ready Writers Program."

Bolin, Jeffrey T; _Executive Vice President for Research and Partnerships, _from Purdue University, _\$94, _"2016-17 EVPRP Laboratory & University Core Facilities Research Equipment Program."

Bolin, Jeffrey T; _Executive Vice President for Research and Partnerships, _from Purdue University, _\$6,800, _"1617 Lab & Core Equip: Schaber."

Bolin, Jeffrey T; _Executive Vice President for Research and Partnerships, _from Kinley Trust, _\$35,302, _"2016 Non-Lab Proposals Tier 1 Funded."

Boltasseva, Alexandra and Shalaev, Vladimir M; _electrical & computer engineering, _from Air Force Office of Scientific Research, _\$250,000, _"Hot-Electrons Generation in New Plasmonic Materials for Integrated on-Chip Devices." _"a Discovery Park award – Birk Nanotechnology Center)

Bouman, Charles A and Comer, Mary L; _electrical & computer engineering, _from Carnegie-Mellon University, _\$133,008, _"Managing the Mosaic of Microstructure, Amendment 8; Grant 106276."

Bouman, Charles A; _electrical & computer engineering, _from Eli Lilly and Company, _\$89,996, _"Development of Software Tool Exploiting Novel Algorithms for Reconstructing High Quality Time Varying 3-D Images from Limited Xray Computed Tomography (CT) Data."

Bouman, Charles A; _electrical & computer engineering, _from Innovative Scientific Solutions, Inc., _\$79,912, _"Analysis of Reconstruction and Model Uncertainty for TDLAS Computed Tomography."

Braun to Delp

Braun, James E; _civil engineering, _from National Renewable Energy Laboratory, _\$50,000, _"An Open, Cloud-Based Platform for Whole-Building Fault Detection and Diagnostics; Modification 1; Grant 108860."

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

Brower, Jeffrey E; _philosophy, _from University of Notre Dame, _\$62,500, _"Medieval Theories of Space and Time."

Brown, Becky A; _foreign language & literature, _from Japan Foundation, _\$2,500, _"Meshiagare: the Food Culture of Japan."

Caffee, Marc W; _physics, _from National Aeronautics and Space Administration, _\$109,000, _"Radionuclides as Probes of Solar System Processes: Development of AMS Techniques for Their Measurement."

Cakmak, Mukerrem; _mechanical engineering, _from University of Arkansas, _\$142,194, _"Electric-Field Alignment of Immiscible Polymer Blends with Dispersed Nanoparticles for Mesoporous Reactive Membranes." _"a Discovery Park award – Birck Nanotechnology Center)

Caldwell, Barrett S; _industrial engineering, _from University of Southern Indiana, _\$1,000, _"Indiana Space Grant Consortium (INSGC) Affiliate Dues."

Caldwell, Barrett S; _industrial engineering, _from National Aeronautics and Space Administration, _\$10,000, _"Purdue Support of Finesse Science and Exploration."

Caldwell, Barrett S; _industrial engineering, _from Purdue Northwest, _\$1,000, _"Indiana Space Grant Consortium (INSGC) Affiliate Dues."

Calve, Sarah and Kinzer-Ursem, Tamara L; _biomedical engineering, _from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, _\$174,788, _"Bioorthogonal Labeling of Extracellular Matrix Assembly."

Campbell, Noll L; _pharmacy practice, _from PHS-NIH National Institute on Aging, _\$142,448, _"Evaluating the Adverse Cognitive Effects of Medications."

Cason, Timothy N; _economics, _from University of Stirling, _\$10,000, _"Pes Scheme Design for Coastal Ecosystems."

Casteel, Shaun N; _agronomy, _from National Crop Insurance Service, _\$10,000, _"Soybean Extension Research."

Chandrasekar, Srinivasan; Bahr, David F; Mann, James B; Trumble, Kevin P and Viswanathan, Koushik; _industrial engineering, _materials engineering, _from Department of the Army, _\$43,010, _"Large-Area Optical Surface Profilometry for Advanced Manufacturing and Materials Processing."

Chaturvedi, Alok R; _management, _from Wadhvani Charitable Foundation, _\$25,000, _"Mentoring for Business Success MOOC."

Chen, Zhihong; _electrical & computer engineering, _from Ford Motor Company, _\$211,283, _"Implementation of Graphene to Improve Corrosion Behavior and Harvest Energy in EDS System."

Cherkauer, Keith A and Bowling, Laura C; _agricultural & biological engineering, _agronomy, _from U.S. Geological Survey, _\$3,030, _"Communicating the State of Indiana Water Resources."

Chmielewski, Jean A; _chemistry, _from National Science Foundation, _\$52,962, _"Cationic Amphiphilic Polyproline Helices (CAPHs): Coupling Antibacterial Activity with Mammalian Cell Penetration."

Cleveland, William S; Crabill, Douglas G; Song, Qifan; Wang, Xiao and Xi, Bowei; _statistics, _from Air Force Research Laboratory, _\$225,000, _"Diagnostic Methods & Software for Fitted-Model Checking."

Collingsworth, Paris D; _forestry & natural resources, _from University of Illinois, _\$386,658, _"Improving Community Resilience in the Great Lakes through Applied Research and Extension, Amendment 2; Grant 108149."

Colon, Bonnie R; Didelot, Mary J and Hollingsworth, Lisa A; _education – Calumet campus, _education, _from Lilly Endowment Inc., _\$20,000, _"Comprehensive Counseling Initiative: Enhancing School Principal and Counselor Preparation Program Planning Grant."

Colon, Bonnie R; _education – Calumet campus, _from Indiana Youth Institute, _\$750, _"Grief and Loss Counseling Training through Grief Recovery Institute Certification Training."

Connor, Robert J and Lloyd, Jason B; _civil engineering, _from Wyoming Department of Transportation, _\$142,223, _"Field Testing and Long-Term Monitoring of Selected High-Mast Lighting Towers."

Connor, Robert J and Lloyd, Jason B; _civil engineering, _from Michael Baker Jr Inc, _\$82,584, _"Field Testing and Short-Term Monitoring of Senior-163 Mexican Hat Architectures Bridge."

Connor, Robert J; _civil engineering, _from Wyoming Department of Transportation, _\$35,556, _"Field Testing and Long-Term Monitoring of Selected High-Mast Lighting Towers."

Culurciello, Eugenio; _biomedical engineering, _from Office of Naval Research, _\$50,000, _"Software and Hardware for Deep Learning of Video Sequences."

Culurciello, Eugenio; _biomedical engineering, _from Office of Naval Research, _\$76,173, _"Software and Hardware for Deep Learning of Video Sequences."

Davis, Susan B; _Track Express-Center for Regional Development, _from Office of Small Business & Entrepreneurship, _\$70,589, _"Hoosier Heartland Small Business Development Center CY 2017 (State)."

Davis, Susan B; _Track Express-Center for Regional Development, _from Office of Small Business & Entrepreneurship, _\$144,531, _"Hoosier Heartland Small Business Development Center CY 2017 (Federal)."

Dehr, Karol A; _English & linguistics – Fort Wayne campus, _from Starseed Foundation, _\$1,500, _"Youth Writing Project."

Delp, Edward J; _electrical & computer engineering, _from Air Force Research Laboratory, _\$769,154, _"Media Forensics Integrity Analytics."

Delp, Edward J and Zhu, Fengqing; _electrical & computer engineering, _from Curtin University of Technology, _\$38,463, _"Computer-Tailoring Using the TADA Software Tools."

DeWoody to Gibson

Dewoody, James A; _forestry & natural resources, _from Texas Technology University, _\$191,000, _"Genomics and Historical Demography of Gray Whales."

Dewoody, James A; _forestry & natural resources, _from Texas Technology University, _\$20,000, _"Western Gray Whale Biopsy Sample Analyses Program, Amendment 2 & Amendment 3."

Dilger, C B; _English, _from University of Illinois, _\$141,708, _"Crow: the Corpus & Repository of Writing."

Dooley, Frank J; Clifford, Rita K; Drake, Brent M and Horne, Pamela T; _Office of the Provost, _IT applicaton services, _Office of Institutional Research, Assessment and Effectiveness, _enrollment management administration, _from Arizona State University, _\$39,745, _"University Innovation Alliance Collaborative Agreement."

Dunning, John B and Riegel, Jeffery K; _forestry & natural resources, _from U.S. Forest Service, _\$28,980, _"Breeding Bird Surveys on the Hoosier National Forest – 2017."

Ebert, David S; Butzke, Christian E; Habib, Ayman F; Schulze, Darrell G; Weldon, Sirje L and Cooper, Bruce R; _electrical & computer engineering, _food science, _civil engineering, _agronomy, _political science, _medicinal chemistry & molecular pharmacology, _from Purdue University, _\$299,998, _"Harnessing Technology and Information Fusion to Enable Resilient and Sustainable Food-Water Balance Under Evolving Environmental Conditions."

Egel, Daniel S; _botany & plant pathology, _from Syngenta Crop Protection Inc., _\$2,000, _"Potassium Management."

Elliott, Daniel S; _electrical & computer engineering, _from National Science Foundation, _\$5,000, _"Research Experience for Undergraduates (REU) Supplement to Towards Precision Measurements of Atomic Parity Violation Using Two-Pathway Coherent Control."

Engel, Bernard A; _agricultural & biological engineering, _from Agricultural Research Service, _\$99,686, _"WEPP Model, Interface, and Database Development and Testing."

Engel, Bernard A; _agricultural & biological engineering, _from Agricultural Research Service, _\$33,784, _"User Interface and Database for Apex Model."

Eremenko, Alexandre and Gabrielov, Andrei; _mathematics, _from National Science Foundation, _\$138,212, _"Geometric Methods in the Analytic Theory of Differential Equations."

Erk, Kendra A; _materials engineering, _from National Science Foundation, _\$8,000, _"Research Experience for Undergraduates (REU) Supplemental Funding for Existing NSF Faculty Early Career Development (CAREER): Water-Based Gels Containing Polymer and Cement-Like Particles for Improved Curing of High-Performance Concrete."

Erk, Kendra A; _materials engineering, _from National Science Foundation, _\$9,201, _"Supplement for Faculty Early Career Development (CAREER): Water-Based Gels Containing Polymer and Cement-Like Particles for Improved Curing of High-Performance Concrete."

Farkas, Brian E; _food science, _from Carsons Brewery LLC, _\$175, _"Multi-Sponsored Gift Fermentation."

Farkas, Brian E; _food science, _from Taxman Brewing Company LLC, _\$25, _"Multi-Sponsored Gift Fermentation."

Feikes, David J; Warren, Aaron R and Pratt, David M; _mathematics, computer science & statistics – Calumet campus, _chemistry and physics – Calumet campus, _education – Calumet campus, _from Indiana Department of Education, _\$200,000, _"Conceptual Algebra Readiness with Engineering and Science (CARES); Amendment 2."

Ferroli, Christina E and Wagoner, Steven D; _field extension educators, _from Lilly Endowment Inc., _\$4,879, _"Teens as Teachers."

Ferroli, Christina E; _field extension educators, _from Lilly Endowment Inc., _\$7,500, _"Purdue Extension-Marion County Summer Camp Enhancement Program."

Field, William E; _agricultural & biological engineering, _from Life Essentials, LLC, _\$7,797, _"Breaking New Ground."

Fisher, Timothy; _mechanical engineering, _from The Boeing Company, _\$100,000, _"Integrated Thermal Management of Aerospace Vehicles Consortium Membership."

Flaherty, Daniel P; _medicinal chemistry & molecular pharmacology, _from University of Rochester, _\$124,544, _"Rnase E a Novel New Gram-Negative Antimicrobial Target, Amendment 1; Grant 108295."

Gallant, Kathleen H and Zoss, Donna L; _foods & nutrition, _from Indiana Department of Education, _\$13,529, _"National School Lunch Program Cycle Menu Project for Indiana Schools."

Garimella, Suresh V; _mechanical engineering, _from Rogers Corporation, _\$30,000, _"Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) Membership – Memo Match for 106029."

Garimella, Suresh V; Lynall, Matthew D and Duval-Couetil, Nathalie A; _Executive Vice President for Research and Partnerships, _management, _industrial technology, _from University of Michigan, _\$171,632, _"I-Corps Node: Activating the Midwest I-Corps Network." (a Discovery Park award – Burton D Morgan Entrepreneurship Center)

Garrison, James L; _aeronautical & astronautical engineering, _from National Aeronautics and Space Administration, _\$81,637, _"Assimilation of Global Navigation Satellite System (GNSS)-R Delay-Doppler Maps into Hurricane Models."

Gentry, Marcia L; _educational studies, _from Jack Kent Cooke Foundation, _\$150,000, _"Project Hope+: Continued Request for the Period March 2017 through February 2019."

Giannios, Dimitrios; _physics, _from National Aeronautics and Space Administration, _\$253,831, _"Blazar Emission Modeling: Going Beyond the Spherical Cows."

Gibson, Kevin D; Ahasteen-Bryant, Felica T and Ridgway, Kenneth D; _botany & plant pathology, _Native American Cultural Center, _earth & atmospheric sciences, _from Alfred P. Sloan Foundation, _\$383,754, _"Sloan Indigenous Graduate Partnership: an Integrated National Program to Support Indigenous Graduate Students in Science, Technology, Engineering & Mathematics (STEM) Di."

Goodsell to Horgan

Goodsell, Johnathan E and **Sharp, Nathan D**; _Composites Manufacturing and Simulations Center, _from University of Tennessee, _\$30,897, _"IACMI 3.2 Project on Modeling to Predict Material and Process Characteristics (PA16-0349-3.2-01, Amendment 3)."

Grant, Richard H; _agronomy, _from Colorado State University, _\$2,500, _"Climatological Monitoring of Ultraviolet Radiation."

Groll, Eckhard A and **Braun, James E**; _mechanical engineering, _civil engineering, _from America Society of Heating, Refrigeration and Air Conditioning Engineering Inc, _\$120,714, _"Oil Return and Retention in Unitary Split System Gas Lines with HFC and HFO Refrigerants."

Groll, Eckhard A and **Weibel, Justin A**; _mechanical engineering, _from Oak Ridge National Laboratory, _\$75,000, _"Evaluating Adhesive Bonding of Aluminum and Copper in HVAC&R Applications."

Guan, Wenjing; _horticulture & landscape architecture, _from Monsanto Company, _\$1,800, _"Melon Variety Evaluation."

Guan, Wenjing; _horticulture & landscape architecture, _from Monsanto Company, _\$8,000, _"Triploid Watermelon Variety Population Study."

Haddock, John E; _civil engineering, _from Indiana Department of Transportation, _\$300,000, _"2017 Local Technical Assistance Program Work Plan & Budget (207237)."

Han, Qingyou; _engineering technology, _from Eon Computer Technologies, _\$26,181, _"Center for Materials Processing Research (CMPR)."

Harbin, Sherry L and **Rickus, Jenna L**; _biomedical engineering, _agricultural & biological engineering, _from Indiana University School of Medicine, _\$40,000, _"Indiana Diabetes Research Center, Amendment 3; Grant 108175."

Harbor, Jonathan M and **Lifton, Nathaniel A**; _earth & atmospheric sciences, _physics, _from National Science Foundation, _\$245,415, _"Mapping, Measuring and Modeling Geomorphology and Ice Change in Dronning Maud Land, Antarctica."

Hartman, Nathan W; **Bertino, Elisa**; **Brush, Thomas H**; **Crawford, Brett A**; **DeLaurentis, Daniel A**; **Deshmukh, Abhijit V**; **French, Richard M**; **Greenan, James P**; **Hacker, Thomas J**; **Ropp, Timothy D**; **Sangid, Michael D**; **Sutherland, John W** and **Witt, Michael C**; _computer graphics technology, _computer science, _management, _industrial technology, _aeronautical & astronautical engineering, _industrial engineering, _engineering technology, _curriculum and instruction, _computer & information technology, _aviation technology, _environmental & ecological engineering, _library administration, _from Purdue University, _\$300,000, _"Realizing Next-Generation Smart Manufacturing."

Heeg, Marlene O; _pharmacy – administration, _from Salix Pharmaceuticals, Inc., _\$700,000, _"2017 IBS Prime Initiative."

Heeg, Marlene O; _pharmacy – administration, _from Amgen, Inc., _\$200,000, _"2017 National Educational Initiative: the Annual Review of Therapeutics & Rheumatology for Rheumatology State Societies."

Heeg, Marlene O; _pharmacy – administration, _from Merck Sharp & Dohme Corp, _\$75,000, _"Bridge Hcv: Building Bridges to Reach People Who Inject Drugs with the Goal to Eradicate HCV"

Hertel, Thomas W and **Akgul, Zeynep**; _agricultural economics, _from U.S. International Trade Commission, _\$151,966, _"Modeling, Parameterization, and Applied Policy Analysis with Global Trade Analysis Project (GTAP) Firm Heterogeneity Framework."

Hertel, Thomas W; _agricultural economics, _from Beijing DRC-NET Information Co., Ltd, _\$40,870, _"Global Trade Analysis Project (GTAP) Consortium."

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

Hertel, Thomas W; **Johnson, David R**; **Baldos, Uris Lantz C**; **Bowling, Laura C**; **Cherkauer, Keith A**; **Huber, Matthew** and **Song, Xiaohui C**; _agricultural economics, _industrial engineering, _agronomy, _agricultural & biological engineering, _earth & atmospheric sciences, _ITaP Research Computing, _from Purdue University, _\$320,124, _"Managing the Global Commons: Sustainable Agriculture and Use of the World's Land and Water Resources in the 21st Century."

Hertel, Thomas W; _agricultural economics, _from International Trade Centre, _\$20,435, _"Global Trade Analysis Project (GTAP) Consortium."

Hill, Catherine A and **Watts, Val J**; _entomology, _medicinal chemistry & molecular pharmacology, _from Bio-Gene Technology Limited, _\$90,143, _"Characterization of Bio-Gene Flavosone Formulation Invertebrate in Vivo Toxicity and in Vivo Pharmacological Analyses."

Hill, Catherine A; **Raymond, Leigh S**; **Watts, Val J**; **Flaherty, Daniel P**; **Pfeiffer, Linda J**; **Kuhn, Richard J** and **Scharf, Michael E**; _Inflammation, Immunology & Infectious Diseases, _from Purdue University, _\$299,999, _"Revolutionizing Control of Vector-Borne Infectious Diseases."

Holford, Kenneth C and **Birchfield, Jennifer L**; _Engineering, Mathematics & Science – Calumet campus, _from Save the Dunes, _\$3,000, _"Northwest Indiana Septic System Care Outreach Project."

Holford, Kenneth C; _Engineering, Mathematics & Science – Calumet campus, _from U.S. Forest Service, _\$40,000, _"Urban Waters Partnership in Northwest Indiana."

Hong, Wei; _foreign language & literature, _from Chinese Language Council International, _\$45,000, _"2017 Proposal to the Confucius Institute Headquarters in Beijing, China."

Hook, Tomas O; **Quagraine, Kwamena K** and **Salazar, Kara A**; _forestry & natural resources, _agricultural economics, _Illinois-Indiana Sea Grant Program, _from University of Illinois, _\$138,646, _"2014-18 IL IN Sea Grant Omnibus."

Hopp, Lisa; _nursing – Calumet campus, _from University of Illinois at Chicago, _\$29,830, _"Bridges to the Doctorate for Nursing."

Horgan, Briony H; _earth & atmospheric sciences, _from Jet Propulsion Laboratory, _\$35,000, _"Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater; Modification 2; Grant 108399."

Horgan, Briony H; _earth & atmospheric sciences, _from Arizona State University, _\$15,263, _"Mastcam-Z: a Geologic, Stereoscopic, and Multispectral Investigation for the National Aeronautics and Space Administration (NASA) Mars-2020 Rover Mission, Amendment 3."

Horgan to Low

Horgan, Briony H; _earth & atmospheric sciences, _from National Aeronautics and Space Administration, _\$136,348, _"Icy Environments on Mars: Investigating Glacial Weathering in Volcanic Terrains."

Hountz, Randall A and Clare, Mark K; _industrial engineering, _from Indiana State Department of Health, _\$38,912, _"ISDH Process Improvement." (a Discovery Park award – Regenstrief Center)

Hu, Jingwei; _mathematics, _from National Science Foundation, _\$9,300, _"Faculty Early Career Development (CAREER): Predictive Simulations of Complex Kinetic Systems."

Huang, Fang; _biomedical engineering, _from U.S. Department of Interior, _\$173,749, _"3-D Super-Resolution Imaging of Intact Animals, Amendment 1; Grant 108616."

Ivantysynova, Monika; _agricultural & biological engineering, _from Ford Motor Company, _\$40,000, _"Maha Fluid Power Teaching and Research Laboratory."

Jacobs, Douglass F; _forestry & natural resources, _from Nature Conservancy, the, _\$7,000, _"Voluntary Support – American Chestnut."

Janes, David B; _Columbia Initiative, _from Escuela De Ingenieria De Antioquia, _\$12,233, _"PII Colombia Multi Sponsor."

Johnson, Carla J; _curriculum and instruction, _from Battelle Memorial Institute, _\$108,699, _"Battelle – Army Educational Outreach Program Cooperative Agreement; Modification 6; Grant 108058."

Johnson, William G; _botany & plant pathology, _from Bayer Cropscience, _\$10,000, _"Bayer Cropscience."

Johnson, William G and Young, Bryan G; _botany & plant pathology, _from Dow Agro Sciences, _\$15,500, _"NA17P2E004, NA17R5K001, Corn Showcase Trail."

Johnson, William G; _botany & plant pathology, _from Syngenta Crop Protection Inc., _\$48,500, _"Weed Science Research Voluntary Support."

Johnson, William G; _botany & plant pathology, _from Monsanto Company, _\$10,584, _"Monsanto Service Order #39."

Johnson, William G and Young, Bryan G; _botany & plant pathology, _from Monsanto Company, _\$13,230, _"Mesotrione Plus Aceotochlor Premix- One Pre and Post Tank Mixes."

Jordan, Mark A; _biology – Fort Wayne campus, _from Indiana Department of Natural Resources, _\$74,500, _"Efficacy of Using Edna to Detect Kirtlands Snake (Project Number T7R20)."

Kazemian, Abdolmajid; _biochemistry, _from PHS-NIH National Heart, Lung & Blood Institute, _\$249,000, _"Expression, Regulation and Role of Enhancer RNAs in T Cells."

Kenttamaa, Hilka I; _chemistry, _from Neste Oil Oyj, _\$60,000, _"Analytical Method and Instrument Development for Large Paraffins."

Key, Nicole L; _mechanical engineering, _from Duke University, _\$31,912, _"Grand Challenges in Turbomachinery Forced Response and NSV (207098)."

Key, Nicole L; _mechanical engineering, _from Honeywell International Foundation Incor, _\$360,000, _"Honeywell Aerospace Voluntary Support."

Kilaz, Gozdem and Qiao, Li; _engineering technology, _aeronautical & astronautical engineering, _from Federal Aviation Administration, _\$117,985, _"Project #26: Drop-in Aviation Fuel Fire Safety."

Kim, Young L; _biomedical engineering, _from Rural Development Administration of the Republic of Korea, _\$50,000, _"Development of Photocatalytic Multifunctional Fabrics for Pathogenic Microorganism Inactivation Using Transgenic Fluorescent Silk."

Klimeck, Gerhard; _electrical & computer engineering, _from Philips Lumileds Lighting Co, _\$75,000, _"Network for Computational Nanotechnology (NCN) Membership."

Klimeck, Gerhard; _electrical & computer engineering, _from Taiwan Semiconductor Manufacturing Co, _\$75,000, _"Network for Computational Nanotechnology (NCN) Membership."

Knapp, Deborah W; Dhawan, Deepika and Ramos-Vara, Jose A; _veterinary clinical science, _comparative pathobiology, _from The Puppy Up Foundation, _\$100,000, _"Improving Molecularly-Targeted Cancer Therapy in Pet Dogs and Humans."

Laird, Carl D; _chemical engineering, _from Sandia National Laboratories, _\$76,898, _"Numerical Solution of Large-Scale Network Problems."

Lee, Chun-Sing G; _electrical & computer engineering, _from Korea Robotics Society, _\$10,000, _"Intelligent Robots and Systems (IROS)."

Lee, Linda S and Nies, Loring F; _agronomy, _civil engineering, _from Defense, U.S. Department of, _\$73,718, _"Quantification of in Situ Chemical Reductive Defluorination (ISCRD) of Perfluoroalkyl Compounds."

Liceaga, Andrea M; _food science, _from Pasco Foods, Inc, _\$3,050, _"Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; _food science, _from Impossible Foods Inc., _\$4,000, _"Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; _food science, _from Heartland Food Products Group, _\$1,500, _"Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; _food science, _from Heartland Food Products Group, _\$3,000, _"Multi Sponsored Gift- Sensory."

Lin, Xiaojun; _electrical & computer engineering, _from National Science Foundation, _\$150,000, _"WiFiUS: Collaborative Research: Low Overhead Wireless Access Solutions for Massive and Dynamic IoT Connectivity."

Liu, Wanqing; _medicinal chemistry & molecular pharmacology, _from Indiana University, _\$75,745, _"Indiana University Center for Pediatric Pharmacology and Precision Medicine."

Liu, Zhongming; _biomedical engineering, _from PHS-NIH National Institute of Mental Health, _\$467,734, _"Multimodal Hyperspectral Imaging of Brain Activity and Connectivity."

Low, Philip S; _chemistry, _from Purdue University, _\$75,000, _"Malaria Research Project."

Lowenberg to Pastakia

Lowenberg-Deboer, James M and **Burniske, Andrea E**; _agricultural economics, _global engineering programs, _from Volunteers Economic Growth Alliance, _\$118,606, _"Farmer to Farmer (F2F) in Colombias Orinoquia Region."

Lucht, Robert P and **Slabaugh, Carson D**; _mechanical engineering, _aeronautical & astronautical engineering, _from GE Aviation, _\$285,000, _"High Pressure TAPS Flame Visualization – Rig Test."

Madhavan, Krishna and **Douglas, Kerrie A**; _engineering education, _from The Boeing Company, _\$50,000, _"Characterizing User Behaviors in Online Learning Environments."

Marais, Karen; **Davendralingam, Navindran** and **DeLaurentis, Daniel A**; _aeronautical & astronautical engineering, _from Stevens Institute of Technology, _\$44,656, _"RT 178: Systems of Systems Analytic Workbench-2017."

McCabe, George P and **Henry, Courtney N**; _statistics, _from PHS-NIH National Center for Complimentary and Alternative Medicine, _\$35,077, _"A Simulation Tool to Evaluate Calcium-41 Experimental Study Designs."

Mei, Jianguo; _chemistry, _from National Science Foundation, _\$104,417, _"Faculty Early Career Development (CAREER): Impact of Flow-Induced Chain Alignment in Melt-Processed Complementary Semiconducting Polymer Blends."

Mengiste, Tesfaye D; _botany & plant pathology, _from Rural Development Administration, _\$12,656, _"Transcriptional Systems in Plant Responses to Pathogens-Grant 208332."

Mengiste, Tesfaye D; _botany & plant pathology, _from Kansas State University, _\$221,660, _"Genetic Improvement of Sorghum for Resistance to Fungal Pathogens."

Meyer, Terrence R; **Goldenstein, Christopher S**; **Gunduz, Ibrahim E**; **Slipchenko, Mikhail N**; **Son, Steven F** and **Bane, Sally P**; _mechanical engineering, _aeronautical & astronautical engineering, _from Defense Threat Reduction Agency, _\$149,854, _"Mhz-Rate Burst-Mode Spectroscopy and Imaging of Temperature and Species in Post-Detonation Fireballs."

Milkoreit, Manjana; _political science, _from Purdue University, _\$35,000, _"How to Design the 'global Stocktake' – Making or Breaking the International Climate Change Regime."

Minton, David A; _earth & atmospheric sciences, _from Arizona State University, _\$88,618, _"Stop Hitting Yourself: Did Most Terrestrial Impactors Originate from Terrestrial Planets? (Amendment 1); Grant 108392."

Mishra, Dharmendra K; _food science, _from Cockram, Joshua J, _\$100, _"Multi Sponsored Gift."

Mohammed, Sulma I; **Mittal, Suresh K** and **Rajwa, Bartlomiej P**; _Cancer Research Center, _comparative pathobiology, _basic medical science, _from PHS-NIH National Cancer Institute, _\$151,706, _"Understanding Breast Cancer Metastasis to Lymph Node."

Mohammed, Sulma I; _comparative pathobiology, _from PHS-NIH National Cancer Institute, _\$50,363, _"Understanding Breast Cancer Metastasis to Lymph Node."

Monroe, James S and **Deering, Amanda J**; _field extension educators, _food science, _from Indiana State Department of Agriculture, _\$104,500, _"Identification of Food Safety Best Practice for Indiana Cantaloupe Production."

Moseson, Alexander J; **Arola, Heidi** and **Burniske, Gary R**; _engineering administration engineering experiment, _Executive Vice President for Research and Partnerships, _chemical engineering, _from International Research & Exchange Board, _\$150,000, _"Mandela Washington Fellowship."

Mustillo, Thomas J and **Deshmukh, Abhijit V**; _political science, _industrial engineering, _from Purdue University, _\$20,000, _"The Dynamics of Party Competition with Non-Policy Strategies."

Mutchler, Jane F; _management – Calumet campus, _from Legacy Foundation, Inc., _\$7,900, _"Gary Coding Bootcamp."

Nagy, Zoltan; _chemical engineering, _from Boehringer Ingelheim GmbH, _\$62,500, _"Development of an Integrated Crystallization Study Platform (ICSP)."

Neary, Michael and **Tower, Jason E**; _animal sciences, _Southern Indiana-Purdue Agricultural Center, _from National Sheep Industry Improvement Center, _\$16,622, _"Establishment of a Hair Sheep Flock for Research and Education in Indiana and Kentucky."

Neumeister, Norbert and **Hacker, Thomas J**; _physics, _computer & information technology, _from Princeton University, _\$223,401, _"U.S. Compact Muon Solenoid (CMS) Group at Purdue University for Activities Related to the US CMS Software & Computing Subsystem."

Newton, Jill A; _curriculum and instruction, _from University of Southern Indiana, _\$3,000, _"Creating Algebra Teaching Communities for Hoosiers (CATCH) – Year 2."

Niser, John C; _consumer & family sciences – Fort Wayne campus, _from Institut De Tourisme Et Hotellerie, _\$5,000, _"HSD Consortium."

Niyogi, Devdutta S; **Biehle, Donald J** and **Scheeringa, Kenneth L**; _agronomy, _agriculture – administration, _from Mary S. Rice Farm Estate, _\$249, _"Maintenance and Improvement of Purdue Agricultural Centers Weather Station ... Network – 2016."

Norman, Eric M and **Niser, John C**; _Dean of Students – Fort Wayne campus, _consumer & family sciences – Fort Wayne campus, _from AWS Foundation, _\$65,000, _"The Bridges to Education and Careers for Student with Intellectual Disabilities Program (a.k.a Bridges Program)."

O'Donnell, Michael J; _field extension educators, _from Indiana State Department of Agriculture, _\$10,000, _"Small Farms Conference Support 2017."

Okuniewski, Maria A; _materials engineering, _from Belgian Nuclear Research Centre, _\$60,902, _"Joint Research Agreement within the Framework of the PhD for Alicia Raftery."

Padfield, Jon R; _Columbus Polytechnic, _from Indiana Department of Transportation, _\$51,581, _"SPR-4158-Implementation of Lean Business Processes for Indiana Department of Transportation (INDOT) Maintenance (Training and Tracking Process Improvements)."

Paniagua Perez, Guillermo; _mechanical engineering, _from Rolls-Royce, Inc., _\$712,000, _"Small Core Turbine Testing."

Pastakia, Sonak D; _pharmacy practice, _from University of Warwick, _\$907, _"Ethnic Specific Risk Stratification in Early Pregnancy for Identifying Mothers at Risk of Gestational Diabetes Mellitus in India and Kenya, Amendment 1."

Pastakia to Shih

Pastakia, Sonak D; _pharmacy practice, _from Mount Sinai School of Medicine, _\$21,142, _"Bridging Income Generation with Group Integrated Care."

Payer, Mathias J and **Xu, Dongyan;** _computer science, _from Office of Naval Research, _\$175,000, _"Towards Transformation-Based Legacy Software Fitness: Usage-Driven Binary Debloating and Hardening."

Pekny, Joseph F; _chemical engineering, _from Pioneer Oil Company, _\$464,948, _"Funding for Director of Unconventional Energy, Nathan Schulthesis."

Peroulis, Dimitrios; _electrical & computer engineering, _from Indiana Microelectronics LLC, _\$76,000, _"X-Band Tunable Notch Filters." _ (a Discovery Park award – Birck Nanotechnology Center)

Perrault, Evan K and **Walenga, Gail A;** _communication, _Purdue University Student Health (PUSH)/Counseling and Psychological Services (CAPS)/Student Wellness, _from Saremi Health & Wellness Foundation, _\$500, _"Health E Fund."

Pourpoint, Timothee L; _aeronautical & astronautical engineering, _from Japanese Aerospace Exploration, _\$122,937, _"Physics of Hypergolic Liquid Jets Impingement."

Pratt, David M; _education, _from Indiana Campus Compact, _\$2,250, _"Developing Online Resources for Early Childhood School Readiness Assessments."

Prokopy, Linda S; _forestry & natural resources, _from The Nature Conservancy, _\$86,418, _"Saginaw Bay Evaluation Year 2."

Prokopy, Linda S; _forestry & natural resources, _from U.S. Geological Survey, _\$11,891, _"National Institutes for Water Resources FY 2017 104(B) Administration."

Ratliff, Timothy L; _comparative pathobiology, _from Purdue University, _\$5,000, _"PCCR Director Special Projects."

Ratliff, Timothy L; _comparative pathobiology, _from Purdue University, _\$15,000, _"PCCR Director Special Projects."

Rebello, Nobel S; _physics, _from Kansas State University, _\$316,846, _"Research on the Use of Visual Cueing and Feedback to Facilitate Problem Solving."

Rokhinson, Leonid P; _physics, _from National Science Foundation, _\$10,469, _"Interplay Between Strongly Correlated Quantum Hall States and Superconductivity."

Rompf, Tiark; _computer science, _from Google Inc, _\$84,787, _"Google 2017 Faculty Research Award."

Rossmann, Michael G; _biological sciences, _from PHS-NIH National Institute of Allergy and Infectious Diseases, _\$638,825, _"Structural Studies of Bacteriophage T4 and Their Potential Medical Applications."

Sadeque, Sabiha; _computer & information technology, _from Purdue University, _\$29,130, _"FY16,17 Purdue Research Foundation (PRF) Research Grant."

Salgado, Rodrigo; Prezzi, Monica and **Perissin, Daniele;** _civil engineering, _from Indiana Department of Transportation, _\$15,000, _"Verification of Bridge Foundation Design Assumptions and Calculations."

Sanson, Jeffrey J; _agricultural economics, _from Indiana Council for Economic Education, _\$57,881, _"Smart Indiana: Financial Literacy Project."

Savaiano, Dennis A; _foods & nutrition, _from The A2 Milk Company, _\$60,000, _"Savaiano Voluntary Support."

Scacco, Joshua M; _communication, _from University of Texas at Austin, _\$21,385, _"Engaging News Project Election Engagement."

Scalo, Carlo; _mechanical engineering, _from Kord Technologies Inc, _\$217,000, _"Vortex Preserving and Consistent Large Eddy Simulations with for Naval Applications."

Schinckel, Allan P; _animal sciences, _from The Hanor Company of Wi, LLC, _\$1,500, _"Continental Grains Research."

Schoenlein, William E and **Durkes, Abigail C;** _biomedical engineering, _comparative pathobiology, _from Cook Research Incorporated, _\$180,824, _"Pre-Clinical Device Testing Agreement; Studies CI-HMTQ, CI-SPPK, REG-PLAS, CI-SPA1, CI-TJLB, and POC."

Schultheiss, Nathan C; _chemical engineering, _from Pioneer Oil Company, _\$94,278, _"Funding for EOR Lab Manager, Rituraj Borgohain."

Scott, David E; _Indiana State Chemist, _from Environmental Protection Agency, _\$377,267, _"FY 2017 EPA Pesticide Cooperative Agreement."

Scutari, Gesualdo; _industrial engineering, _from BAE Systems Advanced Technologies, Inc., _\$69,500, _"Parallel and Distributed Algorithms for Neural Networks."

Scutari, Gesualdo; _industrial engineering, _from Office of Naval Research, _\$115,753, _"Distributed Optimization Methods for Nonconvex In-Network Big Data Analytics."

Sen, Shreyas; _electrical & computer engineering, _from National Science Foundation, _\$175,000, _"CRII: Software and Hardware Foundations (SHF): IMPLANALYTICS: Smart Implantable with In-Sensor Analytics and Body Coupled Power/Data Transfer."

Sharp, Nathan D; Tang, Tian and **Goodsell, Johnathan E;** _Composites Manufacturing and Simulations Center, _aeronautical & astronautical engineering, _from Institute for Advanced Composites Manufacturing Innovation, _\$3,753, _"Task 4.2 Thermoplastic Composite Development for Wind Turbine Blades."

Sheehan, Amy H; _pharmacy practice, _from Johnson & Johnson, Inc., _\$115,974, _"FDA/Purdue/ Janssen Scientific Affairs Drug Advertising and Promotion Pharmaceutical Fellowship."

Shie, Wesley R; _continuing studies – Fort Wayne campus, _from Office of Small Business and Entrepreneurship, _\$189,735, _"North-east Indiana Small Business Development Center CY 2017 – Federal."

Shie, Wesley R; _continuing studies – Fort Wayne campus, _from Office of Small Business and Entrepreneurship, _\$66,213, _"North-east Indiana Small Business Development Center CY 2017 – State."

Shih, Tom I; _aeronautical & astronautical engineering, _from Ames Laboratory, _\$80,000, _"Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Turbines, Amendment 23; [Grant 104396]."

Spafford to Weaver

Spafford, Eugene H; _computer science, _from Eli Lilly and Company, _\$60,000, _"Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

Sudhoff, Scott D; _electrical & computer engineering, _from Florida State University, _\$201,256, _"Purdue 2017-2021 Esrdc Efforts, Amendment 2; Grant 108689."

Szpankowski, Wojciech; _computer science, _from National Science Foundation, _\$5,000,000, _"Emerging Frontiers of Science of Information."

Taleyarkhan, Rusi P; _nuclear engineering, _from Oak Ridge Associated Universities, _\$3,750, _"Fellowship Check."

Tao, Weiguo A; _biochemistry, _from Tymora Analytical Operations, LLC, _\$115,000, _"Developing Novel RPPA for the Detection of Metastatic Prostate Cancer."

Tay, Sien Chieh; _psychological science, _from University of Pennsylvania, _\$50,000, _"Performance Task Measures of Self-Control and Grit."

Thomovsky, Elizabeth J; Hon, Marcelle; Brooks, Aimee C and Johnson, Paula A; _veterinary clinical science, _from The Winn Feline Foundation, _\$11,666, _"Cryopreservation of Feline Red Blood Cells Using Glycerol and Hydroxyethyl Starch Solutions."

Thompson, David H; _chemistry, _from Cornell University, _\$111,312, _"Modulation of Lipid Bisretinoids Clearance with Beta-Cyclodextrins."

Tomar, Vikas and Gunduz, Ibrahim E; _aeronautical & astronautical engineering, _from Vanderbilt University, _\$120,000, _"Multiscale Experiments and Modeling of the Dynamic Energetic Material Failure Including Stochastic Interfaces, Amendment 3 (Grant 107641)."

Toner, Emily C; _field extension educators, _from Indiana State Department of Agriculture, _\$57,900, _"Purdue Urban Farm Incubator Network."

Tong, Yunjie; _biomedical engineering, _from Brain & Behavior Research Foundation, _\$17,222, _"Multimodal Functional Brain Imaging Study of Response to Repetitive Tms (rTMS) Treatment of Major Depression."

Trice, Rodney W and Youngblood, Jeffrey P; _materials engineering, _from Army Research Office, _\$84,500, _"Forming Transparent Ceramics via Alignment of Alpha- Al₂O₃ Platelets: a Fundamental Investigation and Forming Study."

Tu, Manghui and Trekles, Anastasia M; _computer information technology – Calumet campus, _education, _from National Security Agency, _\$27,250, _"Gencyber Summer Camp for High School Teachers in Chicago Metropolitan Area."

Tuinstra, Mitchell R; Weil, Clifford F and Dilkes, Brian; _agronomy, _biochemistry, _from Kansas State University, _\$133,428, _"Trait Development Pipeline for Food and Feed Value in Sorghum."

Turner, Maria H; Dougan, Janice M and Brothers, Meagan; _field extension educators, _from Toyota Motor Manufacturing Inc., _\$2,000, _"Eat, Play, Grow Creative Activities for a Healthy Start."

Umulis, David M; _agricultural & biological engineering, _from Indiana University, _\$88,626, _"Development and Improvement of Tissue Simulation Environment CompuCell3D."

Underwood-Gregg, Diana L; Higgason, Melissa J and Kraft, Roger L; _mathematics, computer science & statistics – Calumet campus, _from Indiana Department of Education, _\$80,271, _"Supporting Inquiry in Mathematics and Science via Simulations (SimsVSims)."

Vacca, Andrea; _agricultural & biological engineering, _from Rolls-Royce Corporation, _\$64,700, _"Simulation of a Fuel Pump for Aero-Engines Using Hygesim."

Veile, Amanda J; _anthropology, _from Purdue University, _\$35,000, _"Biology and Socioecology of Birth and Early Childhood Maturational Processes: a Semi-Longitudinal Study of Ycatec Maya Subsistence Farmers."

Vyn, Tony J; _agronomy, _from Yara Phosyn Ltd, _\$20,000, _"Agricultural Cropping Systems."

Wachs, Juan P and Popescu, Voicu S; _industrial engineering, _computer science, _from Army Medical Research Acquisition Activity, _\$964,617, _"See-What-I-Do: Increasing Mentor and Trainee Sense of Co-Presence in Trauma Surgeries with the STAR Platform -."

Wagner, Robert G; _forestry & natural resources, _from U.S. Forest Service, _\$2,310, _"Data Analysis of Nextgeneration Sequencing Results with Acacia Koa."

Wagner, Robert G; _forestry & natural resources, _from Indiana Arborists Association, Inc., _\$11,250, _"Indiana Arborists Association, Inc."

Weaver, Connie M; _foods & nutrition, _from Tate & Lyle Ingredients Americas, Inc., _\$59,672, _"Weaver Tate & Lyle."

Weaver, Connie M; _foods & nutrition, _from The A2 Milk Company, _\$25,000, _"Multi Sponsored Gift."

Weaver, Connie M; Byrn, Stephen R; Campbell, Wayne W; Leidy, Heather J; McCabe, George P; Mesecar, Andrew D; Ratliff, Timothy L; Story, Jon A; Wodicka, George R; Brightman, Andrew O; Freeman, Lynetta; Gavin, Timothy P; Park, Kinam; Savaiano, Dennis A and Teegarden, Dorothy; _foods & nutrition, _industrial & physical pharmacy, _science – administration, _biochemistry, _Cancer Research Center, _biomedical engineering, _veterinary clinical science, _health & kinesiology, _Bindley Bioscience Center, _health and human sciences, _from Indiana University Purdue University at Indianapolis, _\$922,847, _"Clinical and Translational Sciences Institute (CTSI) – Yr. 4 Parent Record." _"a Discovery Park award – Bindley Bioscience Center"

Weaver, Connie M; _foods & nutrition, _from Pfizer Inc, _\$6,000, _"Corporate Affiliates Fund."

Weaver, Connie M and Story, Jon A; _foods & nutrition, _from Indiana University Purdue University at Indianapolis, _\$94,963, _"Clinical and Translational Sciences Institute (CTSI) – Training Grant Year 4." _"a Discovery Park award – Bindley Bioscience Center"

Weibel to Zollner

Weibel, Justin A and **Garimella, Suresh V**; _mechanical engineering, _from Naval Surface Warfare Center Indian HD Div, _\$140,161, _"Evaluation of the Effects of Dynamic and Nonuniform Operation of Radar-Frequency Electronics on High-Power-Density Thermal Management Strategies; Modification 3; Grant 108220."

Weibel, Justin A; _mechanical engineering, _from Toyota Motor Manufacturing Inc., _\$149,524, _"A Two-Layer Evaporator Wick Structure for Area-Scalable High-Heat-Flux Hotspot Spreading with Vapor Chambers, Amendment 2; (Grant 209304)."

Weiner, Andrew M; _electrical & computer engineering, _from Optical Society of America, _\$1,250, _"The Optical Society – Voluntary Support."

Wendt, Michael K; _medicinal chemistry & molecular pharmacology, _from Metavivor Research and Support Inc., _\$40,000, _"Targeting Growth Factor Receptor Discordant Metastases."

Wetzel, Todd E; _purdue convocations, _from Arts Midwest, _\$2,000, _"Manual Cinema."

Whitacre, Kristi R; _field extension educators, _from Wabash Valley Community Foundation, _\$2,100, _"Purdue Extension – Leadership Vigo County."

Williams, Rod N; _forestry & natural resources, _from Evansville Zoological Society, _\$1,000, _"Voluntary Support."

Williams, Rod N; _forestry & natural resources, _from Indiana Academy of Science, _\$2,963, _"Investigating Hellbender Immunity and the Advantages of Environmental Microbe Exposure Prior to Reintroduction."

Williams, Rod N; _forestry & natural resources, _from Cryptobranchid Interest Group, _\$984, _"Investigating Hellbender Immunity and the Advantages of Environmental Microbe Exposure Prior to Reintroduction."

Williams, Rod N; _forestry & natural resources, _from Indiana Department of Natural Resources, _\$59,900, _"A Non-Invasive Environmental DNA Approach to Detect Mudpuppies (Necturus Maculosus)."

Wise, Kiersten A; _botany & plant pathology, _from Southern Illinois University, _\$20,000, _"Seedling Diseases: Biology, Management, and Education."

Wise, Kiersten A; _botany & plant pathology, _from Ohio State University, _\$30,000, _"Characterization of Phytophthora Sojae and Phytophthora Sansomeana Populations in the North Central Region and an Assess."

Woloshuk, Charles P and **Mengiste, Tesfaye D**; _botany & plant pathology, _from National Corn Growers Association, _\$20,000, _"Transgenic Expression of a Major Plant Immunity Gene to Reduce Aflatoxin Contamination."

Wynkoop, Ryan D; _agriculture – administration, _from Kansas State University, _\$9,462, _"2017 Air Force Camp Grant."

Xu, Dongyan; **DeLaurentis, Daniel A**; **Gramma, Ananth Y**; **Hwang, Inseok**; **Qu, Ming** and **Spafford, Eugene H**; _computer science, _aeronautical & astronautical engineering, _civil engineering, _from Purdue University, _\$300,000, _"Towards Cyber-Physical Vetting of Critical Infrastructures."

Ye, Peide; _electrical & computer engineering, _from Army Research Office, _\$25,000, _"Ballistic Phosphorene Transistor."

Yu, Denny; _industrial engineering, _from University of Cincinnati – Education and Research Center, _\$8,000, _"Ergonomics in Veterinary Care."

Zavattieri, Pablo D; _civil engineering, _from University of California-Riverside, _\$211,545, _"Convergent Evolution to Engineering: Multiscale Structures and Mechanics in Damage Tolerant Functional Bio-Composite and Biomimetic Materials, Amendment 3; Grant 107466."

Zentner, Michael G; _ITaP Research Computing (RCAC), _from Leidos, _\$14,591, _"Establishing a Biomedical Citizen Science Hub for the National Cancer Institute."

Zhang, Xiangyu and **Xu, Dongyan**; _computer science, _from SRI International, _\$256,993, _"Transparent Computing; Amendment 2, Grant 107835."

Zhang, Zhong-Yin; _medicinal chemistry & molecular pharmacology, _from National Institutes of Health, _\$481,271, _"Development of SHP2 Inhibitors for Targeted Anti-Cancer Therapy."

Zollner, Patrick A; **Dacunto, Laura E** and **Carlson, Donald E**; _forestry & natural resources, _from Indiana Department National Research Division of Fish & Wildlife, _\$59,527, _"Understanding Resource Use by Northern Long Eared Bat in Fragmented Wooded Landscapes of Northern Indiana." ■

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. ■