

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

March 2016

**Abel, Steven R;** Office of Engagement, from Eli Lilly Company Foundation, \$50,000, "ISI Professional Development 2015-2016."

**Abrahamson, Kathleen A;** nursing, from Indiana University, \$3,900, "Clinical and Translational Sciences Institute (CTSI) Poise Care Evaluation."

**Abrahamson, Kathleen A and Arling, Gregory W;** nursing, from University of Minnesota, \$93,317, "Home and Community Based Services Performance-Based Incentive Payment Program."

**Adeola, Olayiwola;** animal sciences, from Purdue University, \$38,832, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Adeola, Olayiwola;** animal sciences, from BASF Corporation, \$80,071, "Effect of Supplementation of Mannanase on Macronutrient Digestibility in Birds at 28 Days of Age."

**Agrawal, Rakesh; Lundstrom, Mark S; Alam, Muhammad A; Garimella, Suresh V and Sharma, Pankaj;** chemical engineering, electrical & computer engineering, mechanical engineering, from National Renewable Energy Laboratory, \$110,500, "National Renewable Energy Laboratory (NREL) 402717 Subcontract No. Xej-3-23225-01, Modification 6, Grant No. 106406."

**Aime, Mary C;** botany & plant pathology, from National Science Foundation, \$587,805, "Collaborative Research: Diversity and Evolution of Ectomycorrhizal Fungi of the Guineo-Congolian Rainforest."

**Aime, Mary C;** botany & plant pathology, from Higher Education Commission Pakistan, \$3,500, "Bench Fees- Aamna Ishaq."

**Ajuwon, Kolapo;** animal sciences, from Biovet SA, \$23,250, "Use of Alquerat Immuplus L in Pigs as a Natural Immune Booster."

**Alam, Muhammad A;** electrical & computer engineering, from Texas Instruments, Inc., \$50,000, "Gift Funding from Texas Instruments Purdue University."

**Alam, Muhammad A and Lundstrom, Mark S;** electrical & computer engineering, from Stanford University, \$18,333, "A Multiscale, Electro-Thermal-Optical Reliability Framework for PID and Soiling."

**Anderson, Gina M;** field extension educators, from Community Foundation of Southern Indiana, \$7,000, "Bees and Bee Keeping from A-Z."

**Anderson, Joseph M;** agronomy, from Samuel J. Fry, \$250, "Indiana Arborists Association, Inc."

**Ardekani, Arezoo M;** mechanical engineering, from National Science Foundation, \$64,226, "CAREER: Fluid Dynamics of Bacterial Aggregation and Formation of Biofilm Streamers."

**Avramova, Larisa V;** Bindley Bioscience Center, from Kinasense LLC, \$31,500, "Development and Validation of Kinase Sensing Technology." (a Discovery Park award — Bindley Bioscience Center)

**Bartlett, Edward L;** biomedical engineering, from University of Wisconsin-Madison, \$12,170, "Thalamic and Cortical Mechanisms of Anesthetic-Induced Unconsciousness."

**Bartlett, Edward L;** biomedical engineering, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$367,509, "Measurement and Modeling of Central Auditory Processing in Aged Animals."

**Basaran, Osman A;** chemical engineering, from Eli Lilly and Company, \$25,000, "Purdue Process Safety and Assurance Center(P2SAC)."

**Bayley, William G;** chemistry, from North Montgomery Community School Corp., \$400, "Instrumentation Van Project."

**Bayley, William G;** chemistry, from MSD of Lawrence Township, \$1,000, "Instrumentation Van Project."

**Beaulieu, Lionel J;** Track Express — Center for Regional Development, from Office of Small Business & Entrepreneurship, \$60,148, "Southeast Small Business Development Center (SBDC) 2016 — State."

**Beaulieu, Lionel J;** Track Express — Center for Regional Development, from Office of Small Business & Entrepreneurship, \$148,922, "Southeast Small Business Development Center (SBDC) 2016 — Federal."

**Beck, Alan M; Froehlich, Peter C and Killion, Vicki J;** comparative pathobiology, University Press, from George Mason University, \$10,000, "Extending Digital Scholarship through a Port of the Pressforward Publishing Platform."

**Bermel, Peter A; Alam, Muhammad A; Gray, Jeffery L and Lundstrom, Mark S;** electrical & computer engineering, from Stanford University, \$175,000, "Integrated Approach to Fundamental Challenges in High-Performance Thin-Film Photovoltaics." (a Discovery Park award — Birck Nanotechnology Center)

**Bigelow, Cale A;** horticulture & landscape architecture, from Sonoma Valley Worm Farm, \$3,250, "Putting Greens Research."

**Bigelow, Cale A;** horticulture & landscape architecture, from Sonoma Valley Worm Farm, \$3,250, "Putting Greens Research."

**Bigelow, Cale A;** horticulture & landscape architecture, from DLF Pickseed Seeds & Science, \$3,500, "Putting Greens Research."

**Bigelow, Cale A;** horticulture & landscape architecture, from Alliance for Low Input Sustainable Turf, \$4,000, "Putting Greens Research."

**Bigelow, Cale A;** horticulture & landscape architecture, from Turfgrass Water Conservation Alliance Ltd, \$5,000, "Putting Greens Research."

**Bigelow, Cale A;** horticulture & landscape architecture, from Aquatrols Corporation of America, \$5,000, "Putting Greens Research."

**Bishop, Patricia A** and **Hedderich, Hartmut G**; chemistry, from Purdue University, \$97,517, “15-16 Laboratory & University Core Facility Research Equipment Program.”

**Boltasseva, Alexandra** and **Lagoutchev, Alexei S**; electrical & computer engineering, from Purdue University, \$37,349, “Ultra-Wide Wavelength Range Visible-IR Lamellar Spectrophotometer/Autocorrelator.” (a Discovery Park award — Birck Nanotechnology Center)

**Bouman, Charles A**; electrical & computer engineering, from Universal Technology Corporation, \$94,000, “Point Probe Sampling for Optimized NDE Investigation, Modification 1.”

**Bowling, Laura C**; agronomy, from University Corp for Atmospheric Research, \$48,000, “Improving Operational Flood Forecasts in the US Northern Plains Region through Assimilation of Pondered Water Retrievals, Amendment 1.”

**Braun, James**; mechanical engineering, from Carrier Corporation, \$100,000, “Next Generation Unitary AC & HP Equipment.”

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

**Braun, James E**; mechanical engineering, from Carrier Corporation, \$50,000, “Center for High Performance Buildings Membership Agreement - Carrier Corporation.”

**Braun, James E**; civil engineering, from National Renewable Energy Laboratory, \$43,860, “Validation of Representative No-Touch Audit Software and Building/Grid Simulation Using Open Studio.”

**Breur, Gert J**; veterinary clinical science, from Endocyte, Inc., \$15,552, “Immune Mediated Polyarthritis Project.”

**Brownell, Kathryn C**; history, from Purdue University, \$34,946, “The Republic of Entertainment: Cable Television and the Transformation of American Democracy.”

**Bryan, Lynn A** and **Guzey, Siddika**; curriculum & instruction, from Indiana Commission for Higher Education, \$238,990, “Strengthening Indiana’s Future through the 21st Century Science, Technology, Engineering & Mathematics (STEM) Teachers Scholarship Program.”

**Bullock, Darcy M** and **Krogmeier, James V**; civil engineering, electrical & computer engineering, from Indiana Department of Transportation, \$110,000, “SPR-4016 Assessment of Alternative Rumble Stripe Construction.”

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$175,000, “SPR-4017 Implementation of Weight in Motion Data Quality Control and Real-Time Dashboard Development.”

**Byrd, Vetria L**; computer graphics technology, from National Science Foundation, \$17,378, “Broadening Participation in Visualization (BPViz) Workshop.”

**Byrd, Vetria L**; computer graphics technology, from Iowa State University, \$2,000, “Gesture-Manipulated 3-D Network Maps for Tracking, Assessment, and Reflection Opportunities in Digital Non-Linear Adaptive Learning Systems.”

**Caffee, Marc W**; physics, from U.S. Geological Survey, \$9,050, “36CL Accelerator Mass Spectrometry Analysis.”

**Caldwell, Barrett S**; industrial engineering, from National Aeronautics and Space Administration, \$10,000, “Purdue Support of Finesse Science and Exploration.”

**Calve, Sarah**; biomedical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$71,460, “Imaging the Role of Hyaluronic Acid in Skeletal Muscle Assembly During Murine Forelimb Development.”

**Chandrasekar, Srinivasan** and **Trumble, Kevin P**; industrial engineering, materials engineering, from Army Research Office, \$82,415, “Fluid-Like Flow, Surface Instabilities and Folding in Metal Plasticity and Wear.”

**Chang Alexander, Stewart C**; consumer science & retail, from University of Rochester, \$12,000, “Prognosis, Communication & Race in Advanced Cancer.”

**Chen, Weinong W**; **Gonzalez, Marcial**; **Koslowski, Marisol**; **Rhoads, Jeffrey F** and **Son, Steven F**; aeronautical & astronautical engineering, mechanical engineering, from Air Force Office of Scientific Research, \$442,492, “Real-Time Dynamic Measurements and Characterization of Mesoscale Deformation.”

**Chen, Weinong W**; aeronautical & astronautical engineering, from University of Delaware, \$12,193, “High-Rate Multi-Scale Characterization of Polymers and Composites.”

**Chen, Weinong W**; aeronautical & astronautical engineering, from Air Force Research Laboratory, \$88,497, “Dynamic Interfacial Friction Under Various Pressure and Temperature Conditions.”

**Chen, Weinong W**; aeronautical & astronautical engineering, from Corvid Technologies, \$7,757, “Dynamic Behavior of Biological Tissues.”

**Chen, Weinong W**; aeronautical & astronautical engineering, from Air Force Research Laboratory, \$100,000, “Dynamic Interfacial Friction Under Various Pressure and Temperature Conditions.”

**Chen, Zhihong**; **Appenzeller, Joerg** and **Strachan, Alejandro H**; electrical & computer engineering, materials engineering, from University of Notre Dame, \$251,712, “Cu/TMD Hybrid Interconnects — Enhanced Electrical Performance and Ultra-Thin Cu Diffusion Barrier.”

**Cheng, Ji-Xin**; biomedical engineering, from California Medical Innovations, \$41,684, “Micro-Mechanical Role of Hypertension in Intimal Hyperplasia.”

**Chiu, George T**; **Franses, Elias I** and **Shakouri, Ali**; mechanical engineering, chemical engineering, electrical & computer engineering, from Lilly (ELI) and Company, \$60,000, “Inkjet Printing of Api - Dose Accuracy and Throughput.”

**Chmielewski, Jean A**; chemistry, from Purdue University, \$150,000, “Diversity Transformation: the Chemistry Diversity Initiative: A Graduate Student Program for Success.”

**Christ, Sharon L**; child development & family studies, from Kinley Trust, \$20,000, “Adolescent Aggressive Behaviors: Transmission of Violence through Maltreatment Exposures.”

**Christie, Mark R** and **Sepulveda, Maria S**; forestry & natural resources, from Great Lakes Fishery Commission, \$199,723, “Assessing the Resistance of Sea Lampreys (Petromyzon Marinus) to TFM.”

**Chuang, Keh-Wen**; management -information systems — Calumet campus, from Indiana Campus Compact, \$2,250, “The Profession of Database Management through Service-Learning.”

**Collicott, Steven H**; aeronautical & astronautical engineering, from Oklahoma State University, \$600, “Experimental Asteroid Recovery Vehicle Orion Bridge, Arvob.”

**Connor, Robert J**; civil engineering, from Indiana Department of Transportation, \$7,000, “Expansion of Scope and Budget for SPR 3715 – S-Brite Center.”

**Connor, Robert J** and **Lloyd, Jason B**; civil engineering, from Sonats SA, \$315,712, “Fatigue Testing of Full-Scale Girders to Determine the Effects of Ultrasonic Impact Treatment on Fatigue Resistance.”

**Connor, Robert J** and **Lloyd, Jason B**; civil engineering, from Genesee and Wyoming Inc, \$48,713, "Investigation into the Failure of Bridge 92.90 on the Yuma Subdivision of Kyle Railroad."

**Connor, Robert J** and **Lloyd, Jason B**; civil engineering, from Kimley-Horn and Associates, Inc, \$26,802, "UDOT Fatigue and Fracture Topics Short Course."

**Dadarlat, Marius D**; mathematics, from National Science Foundation, \$80,000, "C\*-Algebras, Groups and Topological Invariants."

**Dare, Anne E**; **Ejeta, Gebisa** and **Pekny, Joseph F**; global engineering programs, agronomy, chemical engineering, from International Research & Exchange Board, \$150,000, "Mandela Washington Fellowship." (a Discovery Park award — Burton D. Morgan Center)

**David, Marlo D**; English, from Kinley Trust, \$1,440, "15-16 Non-Laboratory Research Equipment Program."

**Davis, Susan B**; Track Express — Center for Regional Development, from Office of Small Business & Entrepreneurship, \$58,827, "Hoosier Heartland Small Business Development Center CY 2016 (State)."

**Davis, Susan B**; Track Express — Center for Regional Development, from Office of Small Business & Entrepreneurship, \$145,324, "Hoosier Heartland Small Business Development Center CY 2016 (Federal)."

**Davisson, Vincent J**; **Hockerman, Gregory H** and **Knipp, Gregory T**; medicinal chemistry & molecular pharmacology, industrial & physical pharmacy, from Purdue University, \$27,000, "Antiviral Lead Identification to Treat Filovirus Infections."

**Deering, Amanda J**; food science, from Clabber Girl, \$500, "Multi-Sponsored Gift Funds."

**Delp, Edward J**; electrical & computer engineering, from Lee, Steven M & Martha C, \$454, "Multi-Sponsor."

**Derusha, Carmen E**; field extension educators, from City of Aurora Colorado, \$10,000, "Natural Helpers Training Program."

**Dickerson, Darryl A** and **Gleghorn, Virginia L**; minority engineering program, from Department of the Navy, \$25,000, "Manufacturing Extension Partnership (MEP) Navy 2016 Proposal."

**Donkin, Shawn S** and **Schoonmaker, Jon**; animal sciences, from Clabber Girl, \$72,000, "Evaluation of a Slow Release Formulation of Rumen Buffers for Lactating Dairy Cows."

**Dooley, Frank J** and **Drake, Brent M**; Office of the Provost, Office of Institutional Research, Assessment and Effectiveness, from Georgia State University, \$109,397, "MAAPS: Measuring Analytics as Predictors of Success."

**Eisenhauer, Mary Jane**; education — North Central campus, from Indiana Campus Compact, \$2,000, "Center for Early Learning & Bellaboo: a Community Partnership for Play."

**Eremenko, Alexandre**; mathematics, from National Science Foundation, \$57,263, "Problems in Geometric Function Theory."

**Eroglu, Abdullah**; electrical & computer engineering technology — Fort Wayne campus, from National Science Foundation, \$50,000, "I-Corps: Control and Diagnostics of Electronically Commutated Motor Systems."

**Eugster, Patrick T**; computer science, from Hewlett Packard, \$25,000, "Voluntary Support — Hewlett Packard."

**Farkas, Brian E**; food science, from Raw Nature 5 Corporation, \$3,000, "Food Science Research."

**Farkas, Brian E**; food science, from Raw Nature 5 Corporation, \$3,000, "Food Science Research."

**Favorite, Margaret A**; Student Access, Transition and Success Programs, from Endicott College, \$6,000, "The Family Friendly Campus Toolkit."

**Finke, Linda M**; **Niser, John C**; **Norman, Eric M** and **Wagenfeld, Eric J**; behavioral health & family studies — support, consumer & family sciences — Fort Wayne campus, Dean of Students — Fort Wayne campus, from Indiana University, \$40,000, "Bridges to Education and Careers at Indiana University-Purdue University Fort Wayne for Students with Intellectual Disabilities."

**Finke, Linda M**; **Niser, John C**; **Norman, Eric M** and **Wagenfeld, Eric J**; behavioral health & family studies — support, consumer & family sciences — Fort Wayne campus, Dean of Students — Fort Wayne campus, from Indiana University, \$2,000, "Bridges to Education and Careers at Indiana University-Purdue University Fort Wayne for Students with Intellectual Disabilities."

**Forbes, Beth A** and **Rollins, Jeffrey J**; agricultural communication, from Maryland Agricultural Education Foundation, \$64,603, "Mobile Education Lab/Maryland Agricultural Education Foundation."

**Fox, Edward A** and **Chubykin, Alexander A**; psychological science, biological sciences, from Purdue University, \$26,000, "Chemo- and Optogenetic Dissection of Brain Circuit that Controls Meal Size."

**Francis, Alexander L**; speech, language and hearing sciences, from Purdue University, \$29,928, "Does Effortful Listening Induce Physiological Stress?"

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

**Garimella, Suresh V**; mechanical engineering, from DuPont Central Research & Development, \$7,500, "Cooling Technologies Research Center (CTRC) 2012-2013 Membership — Memo Match for 106029."

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

**Gibson, Kevin D**; **Beckerman, Janna L** and **Turco, Ronald F**; botany & plant pathology, agronomy, from The Ceres Trust, \$160,673, "Weed Management and Cultivar Selection for Industrial Hemp in the Midwest."

**Ginzel, Matthew D** and **Hughes, Gabriel P**; entomology, from National Institute of Food & Agriculture, \$39,500, "Biosynthesis in the Longhorned Beetle Neoclytus M. Mucronatus Coleoptera Cerambycidae."

**Godwin, Allison F**; engineering education, from National Science Foundation, \$529,910, "Faculty Early Career Development (CAREER): Actualizing Latent Diversity: Building Innovation through Engineering Students Identity Development."

**Goins, Edray H** and **Peterson, Jonathon R**; mathematics, from National Science Foundation, \$76,282, "Research Experience for Undergraduates (REU) Site: Purdue Research in Mathematics Experience (Prime)."

**Goldsbrough, Peter B**; botany & plant pathology, from Ronald Rathfon, \$30, "Katherine Howe Gift Fund."

**Gondhalekar, Ameya D**; entomology, from BASF Corporation, \$8,160, "Evaluation of Termidor HP III EUP."

**Goodsell, Johnathan E** and **Bogdanor, Michael J**; aeronautical & astronautical engineering, materials engineering, from Louisiana Center for Mf Sciences, \$31,000, "Virtual Allowables for Composite Liquid Hydrogen Tanks - Phase 1a."



**Gowher, Humaira**; biochemistry, from Purdue University, \$6,000, "Targeting Mechanisms of Dnmt3a through Lsd1 Activity at the PpG Enhancers."

**Grama, Ananth Y; Bagchi, Saurabh and Chaterji, Somali**; computer science, electrical & computer engineering, from National Institutes of Health, \$775,775, "Continued Development and Maintenance of the MG-RAST Metagenomics Pipeline."

**Gramig, Benjamin M and Brouder, Sylvie M**; agricultural economics, agronomy, from National Institute of Food & Agriculture, \$49,500, "Pages: an Interdisciplinary Science Workshop on Payments for Agro-Ecosystem Services."

**Groll, Eckhard A and Braun, James E**; mechanical engineering, civil engineering, from Eaton, \$130,000, "Modeling of Roots Expanders and Organic Rankine Cycles in Support of Eatons Affordable Rankine Cycle Project."

**Groll, Eckhard A**; mechanical engineering, from Whirlpool Corp, \$1,500, "Multi-Sponsor Groll."

**Groll, Eckhard A**; mechanical engineering, from Regal Beloit Corp, \$20,000, "Multi-Sponsor Groll."

**Guan, Wenjing**; horticulture & landscape architecture, from Hollar & Co Inc. Vine Seed Growers, \$600, "Chris Gunter General Research Activities."

**Haddock, John E**; civil engineering, from Indiana Department of Transportation, \$1,141,250, "2015- 2016 Local Technical Assistance Program Work Plan & Budget."

**Hall, Mark C**; biochemistry, from Purdue University, \$30,000, "Proteomic Characterization of Cell Cycle Phosphatases."

**Hamaker, Bruce R**; food science, from Suranaree University of Technology, \$4,600, "Bench Fees — MS Kuenchan Na Nakorn."

**Han, Qingyou**; engineering technology, from Tianjin Lihong Alloy Grp Co. Ltd, \$50,000, "Center for Materials Processing Research (CMPR)."

**Harris, Michael T**; chemical engineering, from Purdue University, \$91,697, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Harwood, John S**; chemistry, from Purdue University, \$65,000, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Heeg, Marlene O**; pharmacy — administration, from Regeneron Pharmaceuticals Inc, \$150,000, "2016 Multisupport Diabetic Eye Pub Series."

**Heeg, Marlene O**; pharmacy - administration, from Salix Pharmaceuticals, Inc., \$750,000, "2015-16 CLDF EXPAND National Educational Initiative."

**Heister, Stephen D**; aeronautical & astronautical engineering, from ERC, Inc., \$90,000, "Modular Solver and Physics Model Development for Liquid Rocket Combustion Modeling."

**Hertel, Thomas W; Bowling, Laura C; Brouder, Sylvie M and Volenec, Jeffrey J**; agricultural economics, agronomy, from National Institute of Food & Agriculture, \$500,000, "Assessing the Long Run Sustainability of US Agriculture in an Integrated Global Economy."

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

**Hertel, Thomas W**; agricultural economics, from United Nations Ec. Comm. for Africa, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

**Hertel, Thomas W**; agricultural economics, from National Graduate Institute for Policy Studies, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

**Hill, Catherine A and Watts, Val J**; entomology, medicinal chemistry & molecular pharmacology, from Purdue University, \$27,000, "Resistance Breaking Insecticides for Mosquito Control."

**Hockerman, Gregory H**; medicinal chemistry & molecular pharmacology, from Purdue University, \$30,000, "L-Type Ca<sup>2+</sup> Channels in Beta Cell Dysfunction."

**Hogenesch, Harm**; comparative pathobiology, from Vaxform, LLC, \$1,521, "Analysis of the Immune Response after Vaccination Against Streptococcus Pyogenes."

**Hook, Tomas O; Quagrainie, Kwamena K and Salazar, Kara A**; forestry & natural resources, agricultural economics, illinois-indiana sea grant program, from University of Illinois, \$63,384, "2014-18 IL in Sea Grant Omnibus, Amendment 4."

**Hountz, Randall A**; Technical Assistance Program, from Indiana State Office of Rural Health, \$18,000, "Leadership-Pull Improvements in Critical Access Hospital, Amendment 1."

**Howell, Kathleen**; aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc, \$2,000, "National Aeronautics and Space Administration (NASA) Guidance, Navigation, and Control Technical Discipline Team (TDT)."

**Hrycyna, Christine A**; chemistry, from PHS-NIH National Institute of General Medical Science, \$277,687, "Structure, Function and Conformational Dynamics of the Ste14p Methyltransferase."

**Hunter, Susan R**; industrial engineering, from National Science Foundation, \$500,000, "Faculty Early Career Development (CAREER): Multi-Objective Optimization via Simulation: Theory, Methods, Parallel Computation."

**Ileleji, Klein**; agricultural & biological engineering, from Colciencias, \$115,643, "Colciencias Assistantship Pablo Vega."

**Irazoqui, Pedro; Powley, Terry L; Robinson, Joseph P; Ward, Matthew P and Liu, Zhongming**; biomedical engineering, psychological science, basic medical science, from Defense Advanced Research Projects Agency, \$1,581,040, "Suppressing Inflammation via Neuromodulation of the GI Tract."

**Ishii, Mamoru**; nuclear engineering, from Bechtel Bettis, Inc., \$100,000, "Demonstration of Effectiveness of Dccp and its Measurement Principle."

**Jafvert, Chad T and Turco, Ronald F**; civil engineering, agronomy, from Purdue University, \$99,995, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Johnson, Chrystal S and Watkins, Natasha D**; curriculum & instruction, child development & family studies, from Kinley Trust, \$20,000, "Bridging Cultural Gulfs: Maximizing the Power of Marginalized Youth."

**Johnston, Cliff T**; agronomy, from Pioneer Oil Company, \$191,484, "Funding for Eor Lab Manager, Rituraj Borgohain."

**Johnston, Cliff T**; agronomy, from Pioneer Oil Company, \$115,000, "EOR Research Lab Director (Cliff Johnston)."

**Kandil, Amr**; civil engineering, from Embassy of the Arab Republic of Egypt, \$72,000, "ECEB 2016 Mohamed Samir Mohamed Yamany Gm-1057."

**Keeney, Roman M**; agricultural economics, from University of Minnesota, \$30,000, "Evaluating Agricultural Domestic Support in Developing Countries."

**Kenttamaa, Hilka I**; chemistry, from Neste Oil Oyj, \$170,000, "Method Development for Large Paraffins."

**Key, Nicole L**; mechanical engineering, from Siemens Corporate Research Inc., \$200,000, "Improving Cantilevered Stator Leakage Flows, Amendment 2."

**Kim, Chang H** and **Fleet, James C**; comparative pathobiology, foods & nutrition, from Purdue University, \$30,000, "Impact of Gut Microbial Metabolites on Colon Cancer Development."

**Kim, Chang H** and **Hogenesch, Harm**; comparative pathobiology, from National Institutes of Health, \$379,036, "Homing of Functionally Distinct Ilc Subsets."

**Kim, Hye-Ji**; horticulture & landscape architecture, from Jiayin Zhang, \$7,000, "Bench Fee Zhang."

**Kirchmaier, Ann L**; biochemistry, from Purdue University, \$29,747, "Replication, Epigenetics and Chromosomal Organization Pilot."

**Kirkpatrick, Jane M**; nursing, from Health Resources & Services Administration, \$481,677, "Health Center Cluster."

**Kladivko, Eileen J**; agronomy, from Indiana Association of Soil & Water Conserv Dist, \$170,015, "Conservation Cropping Systems Agronomist for Soil Health."

**Kladivko, Eileen J**; agronomy, from Iowa State University, \$10,365, "Climate Change, Mitigation, and Adaptation in Corn-Based Cropping Systems."

**Konieczny, Stephen F** and **Taparowsky, Elizabeth J**; biological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$323,443, "Pancreas Transcription Factors and Disease Model Systems."

**Krane, Matthew J**; materials engineering, from GE Aviation, \$145,000, "Modeling of Dendritic Growth through Ceramic Channels."

**Krishnan, Ananthanarayan** and **Gandour, Jackson T**; speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$312,735, "Effects of Language Experience on Early Cortical and Subcortical Pitch Encoding."

**Lacount, Douglas J** and **Grama, Ananth Y**; medicinal chemistry & molecular pharmacology, computer science, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$734,925, "Emerging Virus-Host Cell Protein Interaction Networks."

**Laird, Carl D**; chemical engineering, from Sandia National Laboratories, \$71,626, "Advanced Formulations and Algorithms for Stochastic Optimization with Applications in Power Grid Management."

**Lechtenberg, Victor L**; President, from Woodrow Wilson National Fellowship Foundation, \$36,000, "Indiana Teaching Fellowship Program."

**Lechtenberg, Victor L**; President, from Woodrow Wilson National Fellowship Foundation, \$42,000, "Indiana Teaching Fellowship Program."

**Leonard, Laurence B**; speech, language and hearing sciences, from Purdue University, \$10,626, "EVPRP Bridge Funding: L. Leonard."

**Li, Chi**; mathematics, from National Science Foundation, \$104,311, "Kahler-Einstein Metrics on Fano Manifolds."

**Liceaga, Andrea M**; food science, from Bay Valley Foods LLC, \$3,000, "Multi-Sponsored Gift — Sensory."

**Liceaga, Andrea M**; food science, from Preferred Brands International, \$7,000, "Multi-Sponsored Gift — Sensory."

**Liceaga, Andrea M**; food science, from Bay Valley Foods LLC, \$2,000, "Multi-Sponsored Gift — Sensory."

**Liceaga, Andrea M**; food science, from Monogram Food Solutions Inc, \$6,000, "Multi-Sponsored Gift — Sensory."

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

**Liceaga, Andrea M**; food science, from Pierre, \$3,000, "Multi-Sponsored Gift — Sensory."

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

**Liceaga, Andrea M**; food science, from Shearers Foods, Inc, \$1,000, "Multi-Sponsored Gift — Sensory."

**Liceaga, Andrea M**; food science, from Talking Rain Beverage Company, \$2,000, "Multi-Sponsored Gift — Sensory."

**Lin, Guang**; mechanical engineering, from Pacific Northwest National Laboratory, \$70,000, "Subcontract with PNNL."

**Lin, Guang**; mathematics, from National Science Foundation, \$76,374, "Faculty Early Career Development (CAREER): Uncertainty Quantification and Big Data Analysis in Interconnected Systems: Algorithms, Computations, and Applications."

**Lindsay, Ian C**; anthropology, from National Science Foundation, \$221,173, "Collaborative Research: Fortifications and Long-Term Political Process in the Bronze and Iron Age South Caucasus."

**Liu, Julie C** and **Breur, Gert J**; chemical engineering, veterinary clinical science, from Purdue University, \$30,000, "Promoting Bone Differentiation and Healing with Protein-Based Matrices that Vary Ligand Presentation."

**Liu, Xiaoqi**; **Ratliff, Timothy L** and **Xie, Jun**; Cancer Research Center, statistics, from PHS-NIH National Cancer Institute, \$257,688, "Overcoming Drug Resistance of Castration-Resistant Prostate Cancer."

**Low, Philip S**; chemistry, from Hurvis, John Thomas & Julie Ann, \$422,500, "Hurvis Malaria- Hollow Research."

**Lowenberg-Deboer, James M**; agricultural economics, from Winrock International, \$71,953, "Guinea Agriculture Education and Market Improvement Program."

**Lundstrom, Mark S**; electrical & computer engineering, from Johns Hopkins University Applied Physics, \$68,490, "Nanoscale Engineered Transductional Thermoelectronics." (a Discovery Park award — Network for Computational Nanotechnology)

**Luo, Zhao-Qing**; biological sciences, from Purdue University, \$30,000, "Mechanisms of Lysosomal Macrophage Death Induced by a Novel Immune Ligand."

**Ma, Jianxin**; agronomy, from Agricultural Research Service, \$39,446, "Accelerating Soybean Yield Improvement: Utilizing Yield Genes from Soybean Wild Relatives."

**MacDermid Wadsworth, Shelley**; child development & family studies, from Annie E. Casey Foundation, \$10,000, "The Family Impact Seminars: Building Evidence-Based, Family-Focused Foster Care Policy."

**Matson, Eric T**; computer & information technology, from Institute of Electrical Electronics Engineering, \$1,000, "Rice Reserch Center."

**Mattes, Richard D**; foods & nutrition, from Calorie Control Council, \$10,000, "Calorie Control Council Gift."

**McLuckey, Scott A**; chemistry, from National Institutes of Health, \$28,542, "Gas-Phase Bio-Conjugation in the Tandem Mass Spectrometry of Peptides."



**Mendrysa, Susan M; Cipriani, Kauline S; Figueiredo, Marxa L; Lynch, Cyndi D and Parker, Loran C;** basic medical science, veterinary medicine — administration, graduate school administration, curriculum & instruction, from Purdue University, \$149,024, “Diversity Transformation: Post-Baccalaureate Research Education Program.”

**Michalski, Greg M;** earth & atmospheric sciences, from Purdue University, \$49,326, “15-16 Laboratory & University Core Facility Research Equipment Program.”

**Mitchell, Cary A and Kim, Hye-Ji;** horticulture & landscape architecture, from Purdue University, \$8,083, “15-16 Laboratory & University Core Facility Research Equipment Program.”

**Mohammadi, Mohsen;** agronomy, from North Dakota State University, \$5,379, “Identifying Spring Malting Barley Varieties Adapted to the Eastern US.”

**Mohammed, Sulma I and Irudayaraj, Joseph M;** cancer research center, agricultural & biological engineering, from Purdue University, \$5,000, “A Point of Care Test for Routine Cervical Cancer Screening.”

**Monteith, Margo J and Hennes, Erin P;** psychological science, from Purdue University, \$150,000, “Diversity Transformation: Promoting Student Inclusion: An Evidence-Based Program for Transforming Purdue’s Climate.”

**Moore, Tamara J;** engineering education, from University of Minnesota, \$538,223, “Engrteams: Engineering to Transform the Education of Analysis, Measurement, and Science in a Team-Based, Targeted Mathematics-Science Partnership, Amendment 4 (Grant 107039).”

**Mosier, Nathan S and Ladisch, Michael R;** agricultural & biological engineering, from Leidos, \$63,690, “Design and Fabrication of an Expeditionary Solid and Black Waste Mitigation System, Modification 1.”

**Mutchler, Jane F;** management — Calumet campus, from Office of Small Business & Entrepreneurship, \$202,534, “Northwest Indiana Small Business Development Center 2016 (Federal Funds & PUC/PNC Cash Match).”

**Mutchler, Jane F;** management — Calumet campus, from Office of Small Business & Entrepreneurship, \$81,988, “Northwest Indiana Small Business Development Center 2016 (State Funds).”

**Nagy, Zoltan;** chemical engineering, from BASF Corporation, \$14,000, “Direct Nucleation Control for Antisolvent Crystallization Processes.”

**Neumeister, Norbert; Finley, John P; Jones, Timothy M and Kruczinski, Luis M;** physics, from U.S. Department of Energy, \$595, “An Experimental and Theoretical High Energy Physics Program.”

**Nielsen, Robert L;** agronomy, from Growmark, Inc., \$500, “Corn & Soybean Production.”

**Noinaj, Nicholas and Lyon, Angeline M;** biological sciences, chemistry, from Purdue University, \$61,876, “15-16 Laboratory & University Core Facility Research Equipment Program.”

**Ogata, Niwako;** veterinary clinical science, from Nestle Purina Petcare Company, \$25,000, “Investigating Welfare Consequences of Proactive and Passive Coping Styles in Dogs with Separation Anxiety.”

**Panitch, Alyssa and Breur, Gert J;** biomedical engineering, veterinary clinical science, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$291,737, “Investigation of Proteoglycan Mimetics as Treatments for Osteoarthritis.”

**Parashar, Neeti;** chemistry and physics — Calumet campus, from National Science Foundation, \$134,635, “Research in High Energy Physics on the Compact Muon Solenoid (CMS) Experiment.”

**Pastakia, Sonak D;** pharmacy practice, from Mount Sinai School of Medicine, \$26,545, “Bridging Income Generation with Group Integrated Care, Amendment 1.”

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

**Pekarek, Steven D and Sudhoff, Scott D;** electrical & computer engineering, from Federal Aviation Administration, \$179,710, “Project #11 - Modeling and Specification of LED Based Runway Lighting Systems.”

**Peroulis, Dimitrios; Mousoulis, Charilaos and Xuan, Yi;** electrical & computer engineering, from Landauer, \$49,065, “Microelectromechanical System (MEMS)-Scale Accumulating Radiation Sensor Program.” (a Discovery Park award — Birck Nanotechnology Center)

**Peterson, Jonathon R;** mathematics, from National Security Agency, \$20,000, “Self-Interacting Random Walks and Particle Systems.”

**Pijanowski, Bryan C and Shepardson, Daniel P;** forestry & natural resources, curriculum & instruction, from National Science Foundation, \$209,215, “Collaborative Research: Full Scale Development: Global Soundscapes — the Big Data, Big Screens, Open Ears Project.”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from Space Exploration Technologies Corp, \$3,000, “Multi-Etch Hypergol Exposure Testing.”

**Prezzi, Monica; Salgado, Rodrigo and Chen, Weinong W;** civil engineering, aeronautical & astronautical engineering, from National Science Foundation, \$450,434, “Experimental Investigation of Deep Penetration in Sand.”

**Prokopy, Linda S; Hook, Tomas O; McMillan, Sara K; Kim, Hye-Ji; Malinich, Timothy D; Merwade, Venkatesh M; Brown, Paul B; Mitchell, Cary A and Rode, Robert A;** agriculture — administration, forestry & natural resources, agricultural & biological engineering, horticulture & landscape architecture, civil engineering, from U.S. Geological Survey, \$92,335, “State Water Resources Research Institute Program Fiscal Year 2016.” (a Discovery Park award — Global Sustainability)

**Prokopy, Linda S;** forestry & natural resources, from Conservation Technology Information Center, \$51,348, “Assessing Implementation of Field Print Calculator in Big Pine and Indian Creek.”

**Quinn, Vanessa S;** biological sciences — North Central campus, from Indiana Campus Compact, \$1,000, “2016 Delta Sigma Science Fair.”

**Raman, Arvind;** mechanical engineering, from Colciencias, \$30,088, “Colciencias Fellowship.”

**Ramanathan, Shriram;** materials engineering, from UES Inc., \$10,000, “Growth of Vanadium Oxides.”

**Ramanathan, Shriram;** materials engineering, from Army Research Office, \$50,000, “Structural and Electrical Properties of Metastable Oxide Phase Created Under Extreme Oxygen Pressures, Modification 1.”

**Ramani, Karthik;** mechanical engineering, from Zeroui, Inc, \$75,000, “iHand: Dynamic Robust Hand Model for Intent Recognition.”

**Ratliff, Timothy L**; comparative pathobiology, from Indiana Elks Charities Inc., \$30,000, "Indiana Elks Charities Inc."

**Reklaitis, Gintaras V**; chemical engineering, from Rutgers State University, \$221,000, "Engineering Research Center on Structural Organic Composites-Industrial"

**Reklaitis, Gintaras V**; chemical engineering, from Eli Lilly and Company, \$74,327, "Slurry Processing of Drug Products."

**Remis, Melissa J**; liberal arts — administration, from University of Illinois at Champaign-Urbana, \$5,400, "Humanities without Walls."

**Rhoads, Jeffrey F**; **Chiu, George T** and **Son, Steven F**; mechanical engineering, from Defense Threat Reduction Agency, \$349,620, "Securemems: Fundamental Research in Microelectromechanical System (MEMS)/Energetic Material Integration."

**Richards, Elizabeth A**; **Franks, Melissa M**; **McDonough, Meghan H** and **Christ, Sharon L**; nursing, child development & family studies, health & kinesiology, from Kinley Trust, \$19,998, "Walking for Our Health: A Test of a Couple-Focused Approach to Promote Physical Activity."

**Rokhinson, Leonid P** and **Lyanda-Geller, Yuli**; physics, from Office of Naval Research, \$110,000, "Parafermion-Supporting Platform for Topological Quantum Information Processing."

**Rupp, Deborah E**; psychological science, from Purdue University, \$56,838, "Diversity Transformation: Building a Positive Campus Diversity Climate Through the Inclusion of Individuals with Concealable Identities: a Curricular Approach."

**Sadof, Clifford S**; entomology, from Multi-Sponsored Industrials, \$75, "Ornamental Insect Research."

**Sadof, Clifford S**; entomology, from OHP Inc, \$5,000, "Ornamental Insect Research."

**Scharf, Michael E**; entomology, from Robert or Karen Tarver, \$2,000, "Multi-Sponsor."

**Schmitt, Sara A**; child development & family studies, from Oregon State University, \$6,400, "Evaluation of a Mind in the Making-Based Intervention Targeting 4-Year-Old Children."

**Schoenlein, William E**; biomedical engineering, from Cook Research Incorporated, \$50,616, "Pre-Clinical Device Testing Agreement — Studies: CI-INGR, REG-AMWD, CIAPWG, CI-RIMD and POC."

**Scott, David E**; Indiana State Chemist, from Environmental Protection Agency, \$85,904, "FY 2016 EPA Pesticide Cooperative Agreement, Amendment 1."

**Scott-Moncrieff, Joanna C**; veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$10,268, "ECC Residency Training Program."

**Scutari, Gesualdo**; industrial engineering, from National Science Foundation, \$121,438, "CIF: Collaborative Research: Parallel Online Algorithms for Large-Scale Magnetic Resonance Imaging (MRI)."

**Shakouri, Ali**; Birck Nanotechnology Center, from Flextech Alliance, \$0, "Purdue Tier II Membership in Next Flex (Flexible Hybrid Electronics Innovation Institute)." (a Discovery Park award — Birck Nanotechnology Center)

**Shalae, Vladimir M** and **Boltasseva, Alexandra**; engineering administration engineering experiment, from Harvard University, \$326,486, "Active Metasurfaces for Advanced Wavefronts Engineering and Waveguiding, Amendment 2."

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

**Shen, Jie** and **Dong, Suchuan**; mathematics, from Rolls-Royce Corporation, \$8,548, "Improvement on the Interpolative Chemical Equilibrium Surrogate Model."

**Shie, Wesley R**; continuing studies — Fort Wayne campus, from Office of Small Business & Entrepreneurship, \$76,807, "North-east Indiana Small Business Development Center CY 2016 — State."

**Shie, Wesley R**; continuing studies — Fort Wayne campus, from Office of Small Business & Entrepreneurship, \$189,735, "North-east Indiana Small Business Development Center CY 2016 — Federal."

**Shin, Yung C**; mechanical engineering, from Mfrc, \$300,000, "Microstructure Evolution Modeling During Bulk Deformation Processes."

**Shively, Gerald E**; agricultural economics, from Tufts University, \$50,000, "Feed the Future Innovation Lab for Collaborative Research on Nutrition — Africa."

**Short, Tonya S**; field extension agents, from Delta Dental Foundation, \$1,410, "Childrens Oral Health Education Program."

**Singh, Manpreet**; food science, from Busilizwe & Tinashe Bukhwele, \$75, "Multi-Sponsored Gift."

**Singh, Manpreet**; food science, from Auburn University, \$11,484, "Identifying Gaps Between Knowledge and Practice in Production and Distribution of Local and Regional Foods for a More Secure Food Supply Chain."

**Sintim, Herman O**; chemistry, from National Science Foundation, \$104,708, "New Receptors for Signaling Bacterial Nucleotides."

**Sivasankar, Preeti M** and **Durkes, Abigail C**; speech, language and hearing sciences, comparative pathobiology, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$374,846, "Challenges to Vocal Fold Epithelia: Functional and Structural Consequences."

**Slade, Jonathan H**; chemistry, from National Science Foundation, \$480,858, "Multiphase Chemistry of Organic Nitrates from Monoterpene Oxidation and Their Role in Aerosol Growth."

**Sloan, Mary Anne**; global affairs, from Esguerra Medical Practice Inc, \$380, "Multi-Sponsor Account I-HITEC."

**Sloan, Mary Anne**; global affairs, from Marion General Hospital, \$1,330, "Multi-Sponsor Account I-HITEC."

**Sloan, Mary Anne**; global affairs, from Internal Medicine Nephrology, \$1,520, "Multi-Sponsor Account I-HITEC."

**Sloan, Mary Anne**; global affairs, from Marion General Hospital, \$1,330, "Multi-Sponsor Account I-HITEC."

**Sloan, Mary Anne**; global affairs, from OSMC, \$1,520, "Multi-Sponsor Account I-HITEC."

**Smith, Anne**; **Weber, Christine M**; **Walsh, Bridget M**; **Christ, Sharon L** and **Lynam, Donald R**; speech, language and hearing sciences, child development & family studies, psychological science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$599,686, "Physiological Correlates of Stuttering."

**Smith, Richard S**; food science, from Mizkan Americas Inc, \$2,500, "Aseptic Peppers."

**Snyder, Frank J**; health & kinesiology, from Kinley Trust, \$20,000, "Electronic Cigarette Use and Intentions Among Pre- and Young Adolescents from Low-Income Families."



**Son, Steven F; Heister, Stephen D; Lucht, Robert P and Ramachandran, P V;** mechanical engineering, aeronautical & astronautical engineering, chemistry, from US Army Army Contracting Command APG Adelphi Division, \$71,631, "Surface Chemistry and Combustion Behavior of Hypersonic Solid Fuels."

**Son, Steven F;** mechanical engineering, from University of Notre Dame, \$111,800, "Shock Wave Processing of Advanced Reactive Materials Experiments; Modification 5."

**Son, Steven F;** mechanical engineering, from Pennsylvania State University, \$175,000, "Smart, Functional Nanoenergetics Design from the Atomistic/Molecular Scale through the Mesoscale, Amendment 5."

**Spafford, Eugene H;** computer science, from Northrop Grumman Corporation, \$20,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

**Stauffer, Cynthia V;** biological sciences, from Purdue University, \$28,383, "EVPRP NIH Programs: NIH Training Program."

**Strachan, Alejandro H;** materials engineering, from Air Force Research Laboratory, \$50,000, "Large-Scale Molecular Dynamics Simulations of Ferroelectric Properties of Nanoparticles." (a Discovery Park award — Network for Computational Nanotechnology)

**Strickland, Elizabeth A and Heinz, Michael G;** speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$311,440, "Temporal Effects in Forward Masking, Suppression, and Simultaneous Masking."

**Sudhoff, Scott D and Pekarek, Steven D;** electrical & computer engineering, from Sandia National Laboratories, \$117,800, "Power Conversion System Optimization for WBG/UWBG SWaP Demonstration."

**Sullivan, John P;** aeronautical & astronautical engineering, from Brigham Young University, \$210, "Development of Uav for First Responder- Aerospace Multi University, Multi User Capstone Project."

**Sullivan, John P;** aeronautical & astronautical engineering, from Brigham Young University, \$8,000, "Development of Uav for First Responder- Aerospace Multi University, Multi User Capstone Project."

**Sun, Chin-Teh;** aeronautical & astronautical engineering, from University of Missouri-Columbia, \$40,000, "Development of Elastic Metamaterials, Amendment 1."

**Sundaram, Neera J;** mechanical engineering, from Cummins, Inc., \$96,985, "Right Fidelity Dynamic Engine Modeling and Validation."

**Swihart, Robert K and Smyser, Timothy J;** forestry & natural resources, from Indiana University of Pennsylvania, \$17,000, "Developing a Genetic Catalog for Allegheny Woodrat Metapopulations in Pennsylvania."

**Swithers, Susan E and Goergen, Craig J;** psychological science, biomedical engineering, from PHS-NIH National Heart, Lung & Blood Institute, \$188,021, "Sweetened Beverages and Cardiovascular Disease in Rats."

**Szpankowski, Wojciech; Gleich, David F; Grama, Ananth Y; Neville, Jennifer L; Ramkrishna, Doraiswami and Ward, Mark D;** computer science, chemical engineering, statistics, from National Science Foundation, \$5,000,000, "Emerging Frontiers of Science of Information."

**Tao, Bernard Y;** agricultural & biological engineering, from Indiana Soybean Alliance, \$147,075, "Student Soybean Innovation Contest."

**Taylor, Lynne S;** industrial & physical pharmacy, from Merck Sharp & Dohme Corp, \$70,000, "Study of the Anti-Nucleation Properties and Physicochemical Interactions of Bile Surfactants with Supersaturated Active Pharmaceutical Ingredients."

**Teegarden, Dorothy and Weaver, Connie M;** foods & nutrition, from University of Illinois, \$46,232, "Transdisciplinary Obesity Prevention Program-Undergraduate (Topp-U)."

**Tesini Roseguini, Bruno and Song, Qifan;** health & kinesiology, statistics, from American Heart Association, \$308,000, "Therapy for Intermittent Claudication."

**Thompson, David H;** chemistry, from Ara Parseghian Medical Research Foundation, \$60,000, "Cholesterol Mobilization by Water Soluble HPbCD Polyrotaxanes."

**Trice, Rodney W;** materials engineering, from Purdue University, \$96,334, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Trice, Rodney W and Youngblood, Jeffrey P;** materials engineering, from US Army Research, Development and Engineering Command (RDECOM), \$70,000, "Fabrication of Complex-Shaped Ceramic Components by Room-Temperature Injection Molding of Ceramic Suspension."

**Ulrich, Bernd;** mathematics, from National Science Foundation, \$11,000, "Algebra and Geometry Meetings in the Midwest."

**Umberger, Gloria H;** technology - administration, from Northrop Grumman Corporation, \$6,000, "Senior Capstone."

**Umberger, Gloria H;** technology - administration, from Eaton, \$6,000, "Senior Capstone."

**Vacca, Andrea;** agricultural & biological engineering, from Casappa Spa, \$117,525, "New Directions for Designing Low Noise Emission External Gear Machines."

**Wachs, Juan P; Duerstock, Bradley S; Francis, Gregory S; Goni Cortes, Joaquin; McMullen, Shannon C; Reid, Tahira and Voyles, Richard M;** industrial engineering, biomedical engineering, psychological science, visual & performing arts, mechanical engineering, school of engineering technology, from Purdue University, \$66,000, "15-16 Laboratory & University Core Facility Research Equipment Program."

**Walsh, Bridget M and Smith, Anne;** speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$154,000, "Central and Peripheral Dynamics of Speech Production in Children Who Stutter."

**Walther, Hans U;** mathematics, from National Science Foundation, \$89,408, "Local Cohomology and D-Modules."

**Wang, Xiaoming;** engineering technology, from Medtronic, Inc., \$2,000, "Microstructure Characterization of Titanium Wires."

**Ward, Mark D and Gnan, Edinah K;** statistics, mathematics, from National Science Foundation, \$15,000, "Collaborative Research: 3rd, 4th, and 5th Lake Michigan Workshops on Combinatorics and Graph Theory."

**Watts, Val J; Dai, Mingji and Lill, Markus A;** medicinal chemistry & molecular pharmacology, chemistry, from Purdue University, \$30,000, "Adenyl Cyclase 1 Inhibitors as Molecular Probes for Treating Chronic Pain."



**Weaver, Connie M;** foods & nutrition, from Pharmavite, \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M;** foods & nutrition, from Eli Lilly and Company Foundation, \$13,200, “Pediatric Nutrition Scholarship.”

**Weaver, Connie M;** foods & nutrition, from Mead Johnson & Company, \$6,000, “Corporate Affiliates Fund.”

**Wei, Alexander;** chemistry, from Purdue University, \$28,383, “Evprp: 15-16 NIH Program Grants, NIH Training Program.”

**Weibel, Justin A and Garimella, Suresh V;** mechanical engineering, from Naval Surface Warfare Center Indian HD Div, \$135,694, “Evaluation of the Effects of Dynamic and Nonuniform Operation of Radar-Frequency Electronics on High-Power-Density Thermal Management Strategies.”

**Wendt, Michael K;** medicinal chemistry & molecular pharmacology, from Purdue University, \$99,992, “2015-16 Laboratory & University Core Facility Research Equipment Program.”

**Wereley, Steven T;** mechanical engineering, from Purdue University, \$30,000, “In-Situ Protein-Nanobead Conjugation and Nanobead Diffuometry.” (a Discovery Park award — Birck Nanotechnology Center)

**Whelton, Andrew J; Howarter, John A; Youngblood, Jeffrey P; Jafvert, Chad T and Zyaykina, Nadezhda N;** civil engineering, materials engineering, from Virginia Department of Transportation, \$630,000, “Contaminant Release from Storm Water Culvert Rehabilitation Technologies: Understanding Implications to the Environment and Long-Term Material Integrity.”

**Whelton, Andrew J and Boor, Brandon E;** civil engineering, from National Science Foundation, \$49,999, “Rapid Response Research (RAPID): Chemical Air Emissions from Cured-In-Place-Pipe (CIPP) Pipe Repair Activity.”

**Wilker, Jonathan J;** chemistry, from Sumitomo Foundation, \$400,000, “Multi-Purpose Adhesives.”

**Wise, Kiersten A;** botany & plant pathology, from Southern Illinois University, \$20,000, “Seedling Disease of Soybean: Characterization and Education, Amendment No.1.”

**Xu, Xianfan; Fisher, Timothy and Heister, Stephen D;** mechanical engineering, aeronautical & astronautical engineering, from General Motors Corp, \$31,305, “Development of Cost-Competitive Advanced Thermoelectric Generators for Direct Conversion of Vehicle Waste Heat into Useful Electrical Power.” (a Discovery Park award — Birck Nanotechnology Center)

**Yao, Yuan;** food science, from Phytoption LLC, \$51,208, “New Solubilizers for Drug and Other Applications (Subcontract).”

**Ye, Peide;** electrical & computer engineering, from Defense Threat Reduction Agency, \$143,250, “Scaled Ingaas Nanomofet Advanced Radiation Hardness Tests (SMART).”

**Ye, Peide;** electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, “High-Mobility Narrow Bandgap 2D Materials for TFET Applications.” (a Discovery Park award — Birck Nanotechnology Center)

**Yeo, Yoon; Elzey, Bennett D and Galinsky, Raymond E;** industrial & physical pharmacy, comparative pathobiology, from PHS-NIH National Institute of Biomedical Imaging & Bioengineering, \$349,200, “Environmentally-Adaptive Nanoparticles with Focal Irradiation for Cancer Therapy.”

**Yeo, Yoon;** industrial & physical pharmacy, from Egyptian Cultural and Educational Bureau, \$5,000, “Elnaggar Bench Fee.”

**Zhang, Haiyan H;** engineering technology, from John Deere Agricultural US, \$50,000, “Center for Technology Development Consortium (CTD).”

**Zhang, Haiyan H;** engineering technology, from American Axle & Manufacturing, Inc, \$50,000, “Center for Technology Development Consortium (CTD).”

**Zhang, Hao;** statistics, from Cook Research Incorporated, \$20,238, “Cook Research Inc. RA Spring 2016.”

**Zhou, Daoguo and Tao, Weiguo A;** biological sciences, biochemistry, from Purdue University, \$30,000, “Novel Type IV Effectors from Helicobacter Pylori Promote Host Inflammation.”

**Ziaie, Babak;** electrical & computer engineering, from Eli Lilly and Company, \$76,718, “A Smart Capsule for Targeted Delivery of Liquid or Lyophilized Compounds.” (a Discovery Park award — Birck Nanotechnology Center) ■

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