

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

July 2014

**Abbott, Angela R** and **Palmer, Laura A**; health and human sciences, from Pennsylvania State University, \$17,302, "CYFAR Coach."

**Abu-Omar, Mahdi M**; chemistry, from Spero Energy Inc, \$44,000, "Selective Catalytic Hydrodeoxygenation (HDO) of Woody Biomass to Market Driven High Value Phenolic Chemicals."

**Agnew, Christopher R**; psychological science, from Ross Graduate Fellowship/Assistantship, \$0, "Wiemers, Elizabeth."

**Aime, Mary C**; botany & plant pathology, from North Carolina State University, \$17,879, "Digitization Technology Computer Network (TCN): Collaborative: The Macrofungi Collection Consortium: Unlocking a Biodiversity Resource for Understanding Biotic Interactions, Nutrient Cycling and Human Affairs."

**Alexeenko, Alina**; aeronautical & astronautical engineering, from Purdue University, \$848, "1314 Lab Equip Grant: Incr Due to Additional Funding, a Alexeenko."

**Applegate, Todd J**; animal sciences, from Ab Vista, \$3,800, "Pyhtase in Poultry."

**Bagchi, Saurabh** and **Song, Xiaohui C**; electrical & computer engineering, academic technologies, from National Science Foundation, \$49,891, "CI-P: Computer System Failure Data Repository to Enable Data-Driven Dependability Research."

**Bahr, David F**; materials engineering, from Purdue Doctoral Program, \$20,905, "Walter, Anna."

**Bahr, David F**; materials engineering, from Scot Industries Inc, \$32,000, "Scot Industries Inc."

**Bahr, David F**; materials engineering, from Purdue Doctoral Program, \$31,165, "Lopez Perez, Nelyan."

**Bahr, David F**; materials engineering, from Purdue University F N Andrews Fellowship, \$31,767, "Shrestha, Shikha."

**Bayley, William G**; chemistry, from Crawfordsville Community School Corp., \$900, "Instrumentation Van Project."

**Bean, Robert S**; **Garner, Allen L** and **Nie, Linda H**; nuclear engineering, health sciences, from Nuclear Regulatory Commission, \$143,333, "U.S. Nuclear Regulatory Commission Nuclear Education Program Faculty Development Grant Program at Purdue University."

**Beaudoin, Stephen P** and **Boudouris, Bryan W**; chemical engineering, from Navy Engineering Logistics Office, \$403,336, "Design and Fabrication of Superior, Mechanically-Robust Polymeric Swabs for Optimized Contact-Based Explosives Detection."

**Beaulieu, Lionel J**; engagement, from Pershing County Economic Diversification Authority, \$6,500, "Multi-Sponsored Account (PCRD) Purdue Center for Regional Development PCRD."

**Bergmann, Michael A**; philosophy, from University of Notre Dame, \$10,000, "Faith & Reason: Themes from Swinburne."

**Bermel, Peter A**; electrical & computer engineering, from Purdue University, \$10,000, "Nanohub-U: Peter Bermel, 207575." (a Discovery Park award — Network for Computational Nanotechnology)

**Bingham, Clifton W**; computer science, from National Science Foundation, \$222,931, "Intergovernmental Personnel Assignment (IPA) Agreement for Clifton Bingham with NSE"

**Birch, Deborah I**; student services — North Central campus, from U.S. Department of Education, \$304,624, "Success through Education."

**Blankenship, Bonnie T**; health & kinesiology, from Indiana Sports Corporation, \$4,000, "2014 Susan Williams Champs Program Grant."

**Boudouris, Bryan W** and **Erk, Kendra A**; chemical engineering, materials engineering, from Pioneer Oil Company, \$150,000, "Evaluation and Systematic Design of Polymers for Enhanced Oil Recovery."

**Boudouris, Bryan W**; chemical engineering, from Dodd, Robert R, \$24,587, "Designing a Semi-Permanent Nanoparticle Ink."

**Boudouris, Bryan W**; chemical engineering, from Purdue University, \$10,000, "Nanohub-U: Bryan Boudouris, 207575." (a Discovery Park award — Network for Computational Nanotechnology)

**Boudouris, Bryan W**; chemical engineering, from Air Force Office of Scientific Research, \$120,000, "Molecular Design and Device Application of Radical Polymers for Improved Charge Extraction in Organic Photovoltaic Cells."

**Boudouris, Bryan W**; chemical engineering, from National Science Foundation, \$100,000, "Tailoring Transport in Transparent and Conducting Non-Conjugated Polymers for Next-Generation Materials in Organic Photovoltaic Devices."

**Bowling, Laura C**; agronomy, from Purdue University F N Andrews Fellowship, \$28,104, "Lee, Charlotte Irene."

**Bracke, Marianne S**; **Aime, Mary C** and **Bailey, Jordan**; library administration, botany & plant pathology, from Indiana State Library, \$17,255, "Digitizing Historically and Scientifically Significant Collections in the Purdue Herbaria."

**Braile, Lawrence W**; earth & atmospheric sciences, from National Science Foundation, \$50,004, "Research Experience for Undergraduates (REU) Site: Summer of Applied Geophysical Experience (SAGE)."

**Braun, James E**; mechanical engineering, from Portland Energy Conservation, \$4,000, "Evaluating FDD Protocols for Implementation in California."

**Breur, Gert J; Goergen, Craig J and Snyder, Paul W;** veterinary clinical science, biomedical engineering, comparative pathobiology, from Medicine Institute, Incorporated, \$63,952, "Osteoarthritis in Guinea Pigs."

**Brush, Thomas H;** management, from Purdue University F N Andrews Fellowship, \$8,437, "Godwin, Thomas."

**Brush, Thomas H;** management, from Ross Graduate Fellowship/Assistantship, \$17,777, "Johnston, Mitchell."

**Brush, Thomas H;** management, from Purdue University F N Andrews Fellowship, \$8,437, "Kuk, Arnold E."

**Brush, Thomas H;** management, from Ross Graduate Fellowship/Assistantship, \$17,777, "Angelo, Benjamin."

**Buczowski, Grzegorz A;** entomology, from Pest Management Foundation, \$14,000, "Field Studies to Improve the Efficacy of House Mouse Bait Stations and Multiple Catch Traps."

**Buczowski, Grzegorz A and Gondhalekar, Ameya D;** entomology, from Susan Mcknight Inc, \$4,750, "Laboratory Test to Evaluate Pharaoh Ant Predation on Bed Bugs."

**Bullock, Darcy M;** civil engineering, from Ite Great Lakes District, \$1,500, "Joint Transportation Research Program (JTRP) Supplementary Research Account."

**Bullock, Darcy M;** civil engineering, from Institute of Transportation Engineers, \$1,000, "Joint Transportation Research Program (JTRP) Supplementary Research Account."

**Bullock, Darcy M;** civil engineering, from Purdue Doctoral Program, \$31,165, "McNamara, Margaret."

**Buzon, Michele R;** anthropology, from National Science Foundation, \$135,272, "Collaborative Research: Impact and Accommodation through Cultural Contact."

**Buzzard, Gregory T;** mathematics, from University of Notre Dame, \$24,275, "High Order Model, Computation, and Stochastic Hybrid Coupling Continuum-Particle Algorithm with Application to Micro-Pro-pulsion."

**Buzzard, Gregory T;** mathematics, from Purdue University, \$27,868, "1314 Purdue Research Foundation (PRF) Research Grant for G Buzzard."

**Byrn, Stephen R;** industrial & physical pharmacy, from PHS-NIH National Library of Medicine, \$15,000, "Subcutaneous Formulation - Development of a Formulation for Administration of a Small Molecule Agonist for TSHR."

**Caldwell, Barrett S;** industrial engineering, from Purdue Doctoral Program, \$31,165, "Jahn, Michelle A."

**Camberato, James J;** agronomy, from Gyp-soil, \$9,997, "Effect of Gypsum on Corn and Soybean Yield."

**Casteel, Shaun N;** agronomy, from Agricultural Research Service, \$22,374, "Investigations for Improving Disease Resistance in Wheat."

**Casteel, Shaun N;** agronomy, from Agricultural Research Service, \$70,000, "New Modes of Wheat Resistance Against Hessian Fly."

**Casteel, Shaun N;** agronomy, from Monsanto Company, \$68,795, "Sensing K Sensitivity in Soybean."

**Casteel, Shaun N;** agronomy, from Monsanto Company, \$6,048, "Saved Soybean Seed: Genetics."

**Chang, Fen-Lei F;** medical education — Fort Wayne campus, from Indiana University, \$15,000, "Anna Yoder Memorial Fund."

**Chang, Fen-Lei F;** medical education — Fort Wayne campus, from Indiana University, \$21,918, "FY 14-15 Indiana University School of Medicine (IUSM)-Fort Wayne Student Activity Fund."

**Chang, Fen-Lei F;** medical education — Fort Wayne campus, from Indiana University, \$100,000, "FY 14-15 Indiana University School of Medicine (IUSM)-Fort Wayne Chang Start-Up Fund."

**Chang, Fen-Lei F;** medical education — Fort Wayne campus, from Indiana University, \$5,000, "FY 14-15 Indiana University School of Medicine (IUSM)-Fort Wayne Life Cycle Fund."

**Chang, Fen-Lei F;** medical education — Fort Wayne campus, from Indiana University, \$27,000, "FY 2013-2014 Indiana University School of Medicine (IUSM) Fort Wayne Student Technology Fund."

**Chappell, William J;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$33,000, "William Chappel DARPA Intergovernmental Personnel Assignment (IPA) Extension."

**Chapple, Clint C;** biochemistry, from Stanford University, \$208,742, "Lignin Management: Optimizing Yield in Lignin-Modified Plants Amendment 1."

**Chen, Jun;** mechanical engineering, from U.S. Department of Education, \$140,877, "Fueling the Winds of Change - The Purdue University Interdisciplinary Graduate Assistance in Areas of National Need (GAANN) Fellowship Program on Wind Energy Systems (Winds); Amendment 7."

**Chen, Yong P and Rokhinson, Leonid P;** physics, from National Science Foundation, \$140,000, "Majorana Particles in Topological Insulator Quantum Wires." (a Discovery Park award — Birck Nanotechnology Center)

**Chen, Yong P; Lundstrom, Mark S; Xu, Xianfan; Ye, Peide; Datta, Supriyo and Ramdas, Anant K;** physics, electrical & computer engineering, mechanical engineering, from Space and Naval Warfare Systems Center, \$1,441,067, "Topological Insulator Coherent Energy-Efficient Devices (TICED)."

**Cheng, Ji-Xin;** biomedical engineering, from PHS-NIH National Cancer Institute, \$227,432, "Quantitative Spectroscopic Imaging of Cancer Metabolites in Live Cells and Intact Tissues."

**Cheng, Ji-Xin;** biomedical engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Huang, Kai-Chih."

**Cherkauer, Keith A;** agricultural & biological engineering, from National Aeronautics and Space Administration, \$30,000, "Developing a Comprehensive Spectral-Biogeochemical Database or Midwestern Waters for Improving Remote Sensing of Water Quality."

**Chester, Julia A;** psychological science, from Purdue University, \$33,575, "EVPRP Bridge Funding: Julia Chester."

**Chmielewski, Jean A and Seleem, Mohamed;** chemistry, comparative pathobiology, from National Science Foundation, \$340,000, "Cationic Amphiphilic Polyproline Helices (CAPHs): Coupling Antibacterial Activity with Mammalian Cell Penetration."

**Clase, Kari L and Byrn, Stephen R;** industrial technology, industrial & physical pharmacy, from Merck Research Laboratories, \$600,000, "Merck Scholarships — Kiliman-jaro-Purdue MS Degree Biotechnology and Innovation: Regulatory and Quality Compliance."

**Constable, Peter D;** veterinary clinical science, from N Central Veterinary Emergency Center LLC, \$5,400, "ECC Residency Training Program."

**Cooks, Robert G;** chemistry, from Purdue University, \$28,281, "1415 Cancer Center Special Incentive Research Grant (SIRG), R. G. Cooks."

**Coppoc, Gordon L;** medical education, from Indiana University, \$15,120, "FY14-15 Indiana University School of Medicine (IUSM)-Lafayette Student Activity Fund."

**Coppoc, Gordon L;** medical education, from Indiana University, \$15,120, "FY14-15 Indiana University School of Medicine (IUSM)-Lafayette Student Technology Fund."

**Coppoc, Gordon L;** medical education, from Indiana University, \$6,795, "FY 14-15 Indiana University School of Medicine (IUSM)-Lafayette Life Cycle Fund."

**Coppoc, Gordon L;** medical education, from Indiana University, \$4,000, "FY14-15 Indiana University School of Medicine (IUSM)-Lafayette Student and Faculty Recruitment and Retention."

**Croney, Candace C; Stella, Judith L; Beck, Alan M; Muir, William M and Widmar, Nicole J;** comparative pathobiology, animal sciences, agricultural economics, from Pet Food Institute, \$350,000, "Establishing Voluntary Care Standards for Commercial Dog Breeding in Indiana."

**Croney, Candace C; Stella, Judith L; Beck, Alan M; Muir, William M and Widmar, Nicole J;** comparative pathobiology, animal sciences, agricultural economics, from Pet Industry Joint Advisory Council, \$200,000, "Establishing Voluntary Care Standards for Commercial Dog Breeding in Indiana."

**Croney, Candace C and Widmar, Nicole J;** comparative pathobiology, agricultural economics, from Indiana Pork Producers Association Inc., \$9,900, "Analyzing the Perceptions of the General Public with Regard to Meat Production in the US: A Spotlight on Pork Production and the Impacts of the Fair Oaks Farms (FOR) Pig Adventure."

**Croney, Candace C; Stella, Judith L; Beck, Alan M; Muir, William M and Widmar, Nicole J;** comparative pathobiology, animal sciences, agricultural economics, from World Pet Association, \$350,000, "Establishing Voluntary Care Standards for Commercial Dog Breeding in Indiana."

**Crossley, William A; Johnson, Mary E and Marais, Karen;** aeronautical & astronautical engineering, aviation technology, from Federal Aviation Administration, \$123,609, "Partnership to Enhance General Aviation Safety, Accessibility, and Sustainability (PEGASAS)."

**Calurciello, Eugenio;** biomedical engineering, from Johns Hopkins University, \$76,302, "Figure-Ground Processing, Saliency and Guided Attention for Analysis of Large Natural Scenes."

**Davisson, Vincent J;** medicinal chemistry & molecular pharmacology, from Leidos, \$124,120, "Raman Active Dyes Mod. 2."

**Deering, Amanda J;** food science, from Dole, \$25,000, "Multi-Sponsored Gift Account."

**Dewoody, James A;** forestry & natural resources, from Purdue Doctoral Program, \$10,978, "Abts,Kendra."

**Diclementi, Jeannie D;** psychology — Fort Wayne campus, from U.S. Department of Health and Human Services, \$98,861, "Indiana University-Purdue University Fort Wayne (IPFW) Project Compass: Community Partners Against Student Suicide Continuation."

**Dilkes, Brian;** horticulture & landscape architecture, from Mint Industry Research Council, \$52,300, "Mint Industry Gift Account."

**Duffy, Vincent G;** industrial engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Chao, Wen-Yu."

**Earley, Paul C;** management, from Bilsland, Winifred B. Endowment, \$21,695, "Totty, Evan."

**Edwards, Nancy E;** nursing, from Health Resources & Services Administration, \$341,396, "Nurse Practitioners in Rural Indiana."

**Egel, Daniel S;** botany & plant pathology, from Highmark Seed Company, LLC, \$1,000, "Potassium Management."

**Egel, Daniel S;** botany & plant pathology, from Bayer Cropscience, \$1,250, "Potassium Management."

**El-Azab, Anter A;** nuclear engineering, from Idaho National Laboratory, \$10,000, "EFRC Center for Material Science of Nuclear Fuels."

**Elliott, Stephen J; Bertino, Elisa and O'Connor, Kevin J;** technology - administration, computer science, industrial technology, from Daon, \$96,391, "Advancing Commercial

Participation in the NSTIC Ecosystem." (a Discovery Park award — Cyber Center)

**Engel, Bernard A; Omotoso, Tolulope; Keulertz, Martin; Blatchley, Ernest R; Ileleji, Klein and Sesmero, Juan P;** agricultural & biological engineering, Global Food Security Initiative, civil engineering, agricultural economics, from Purdue University, \$50,000, "Integrated Resources Management Approach to Ensuring Sustainable Food Security in Nigeria-the Nexus of Rice Production on Lake Kainji." (a Discovery Park award — Global Sustainability Institute)

**Engel, Bernard A;** agricultural & biological engineering, from Agricultural Research Service, \$11,724, "Simulation of Conservation Practice Effects on Erosion and Water Quality Under Current and Future Climate Scenarios-ARS-Engel/Flanagan."

**Ericson, Karen L;** chemistry — Fort Wayne campus, from Wyle Laboratories, \$12,502, "Pyridoxic Acid Analysis PO T71686 Change Order 14."

**Erk, Kendra A and Boudouris, Bryan W;** materials engineering, chemical engineering, from National Science Foundation, \$150,000, "Collaborative Research: Identification of Fundamental Processing-Structure-Property Relationships for Scalable Manufacturing of Self-Assembled Block Polymer Membranes."

**Erk, Kendra A;** materials engineering, from Pioneer Oil Company, \$75,000, "Advanced Physically Associating Polymer Solutions for Enhanced Conformance Control in Illinois Basin Oil Reservoirs."

**Fanjoy, Richard O;** aviation technology, from Purdue University F N Andrews Fellowship, \$17,811, "Geske, Robert C."

**Fanjoy, Richard O;** aviation technology, from Purdue University F N Andrews Fellowship, \$17,811, "Spence, Tyler B."

**Fanjoy, Richard O;** aviation technology, from Purdue University F N Andrews Fellowship, \$17,811, "Rudari, Lukas."

**Fanjoy, Richard O;** aviation technology, from Ross Graduate Fellowship/Assistantship, \$17,811, "Yu, Wang."

**Farkas, Brian E;** food science, from Purdue University F N Andrews Fellowship, \$28,138, "Hayes, Anna."

**Farkas, Brian E;** food science, from Purdue University F N Andrews Fellowship, \$27,578, "Murphy, Ryan W."



**Fentiman, Audeen W**; nuclear engineering, from U.S. Department of Energy, \$5,000, "W Fullmar, J Boguski, 09/10, C Brooks 10/11 T Novakowski 13/14 Fellows - Cooperative Agreement to Host DOE Fellows and Scholars."

**Fernandez-Juricic, Esteban**; biological sciences, from Showalter Trust, \$5,000, "2014 Showalter Awards."

**Fernandez-Juricic, Esteban**; biological sciences, from Department of the Army, \$28,170, "Effects of Military Training with Dogs on the Reproductive Behavior and Breeding Success of California Least Terns and Snowy Plovers."

**Ferruzzi, Mario**; food science, from Purdue Doctoral Program, \$28,138, "Mcarthur, Breanna."

**Field, William E**; agricultural & biological engineering, from Sigma Alpha, \$134, "Breaking New Ground."

**Fischbach, Ephraim**; physics, from Snare Inc, \$6,000, "E. Fischbach Research Support."

**Fish, Jason D**; oirae, from Tutor Matching Services, \$21,842, "Passport."

**Flesch, Lucy M**; earth & atmospheric sciences, from National Science Foundation, \$87,355, "Collaborative Research: Exploring Extensional Tectonics Beyond the Ethiopian Rift."

**Foster, Kenneth A**; agricultural economics, from Ludwig Kruhe Graduate Scholarship, \$19,570, "Li, Xiaofei."

**Foster, Kenneth A**; agricultural economics, from Purdue Doctoral Program, \$27,923, "Marquez Alacala, German Alberto."

**Foster, Kenneth A**; agricultural economics, from Purdue University F N Andrews Fellowship, \$27,923, "Smith, Timothy M."

**Foster, Kenneth A**; agricultural economics, from Purdue University F N Andrews Fellowship, \$27,923, "Josephson, Anna L."

**Fouche, Rayvon D**; American studies, from Lynn Interdisciplinary Graduate Fellowship, \$15,080, "Bonini, Rachel E."

**Freed, Andrew M and Melosh, Henry J**; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$123,000, "The Evolution of Large Impact Basins on the Moon, Mercury, and Mars."

**French, Doran C**; child development & family studies, from Purdue Doctoral Program, \$17,318, "Anaya (Sanchez), Laura Yanett."

**Gabin, Nancy F**; history, from Lynn Interdisciplinary Graduate Fellowship, \$17,675, "Morrison, Joseph."

**Gajdzik, Elizabeth A**; engineering education, from Texas A&M University, \$15,000, "Project Grissom: Science, Technology, Engineering & Mathematics (STEM) Curriculum Development."

**Garimella, Suresh V**; mechanical engineering, from Toyota Motor Manufacturing Inc., \$30,000, "Cooling Technologies Research Center (CTRC) 2012-2013 Membership - Memo Match for 106029."

**Gibson, Kevin D and Ridgway, Kenneth D**; botany & plant pathology, earth & atmospheric sciences, from Alfred P. Sloan Foundation, \$328,961, "Sloan Indigenous Graduate Partnership: a National Program to Support Indigenous Graduate Students in Science, Technology, Engineering & Mathematics (STEM) Disciplines."

**Ginzel, Matthew D**; entomology, from Arbor America Inc, \$2,184, "Multi-Sponsor."

**Goergen, Craig J**; biomedical engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Soepriatna, Arvin."

**Goforth, Reuben R**; forestry & natural resources, from University of Illinois, \$56,500, "Knauss Fellowship Application — Katherine Touzinsky."

**Goins, Edray H**; mathematics, from Purdue University, \$27,868, "1314 Purdue Research Foundation (PRF) Research Grant for E Goins."

**Greeley, Jeffrey P**; chemical engineering, from Argonne National Laboratory, \$13,500, "Network for Ab Initio Many-Body Methods: Development, Education and Training."

**Haddock, John E and Slusher, Laura M**; civil engineering, from Indiana Department of Transportation, \$502,000, "Management of the Hazard Elimination Program for Existing L Roads and Street (Helpers) Program for Local Public Agencies."

**Hadley, Vickie J**; field extension educators, from Scan Inc, \$375, "Work One/Scan Financial Literacy."

**Handwerker, Carol A**; materials engineering, from Foresite, Inc, \$6,000, "Foresite Tin Whiskers Research."

**Harbin, Sherry L**; biomedical engineering, from Purdue Doctoral Program, \$31,165, "Buno, Kevin."

**Harbin, Sherry L**; biomedical engineering, from Purdue Doctoral Program, \$31,085, "Hernandez, Clarissa."

**Harris, Dale A**; engineering education, from Pohang University of Science & Technology, \$93,071, "Postech Fellowship-Graduate Degree Collaboration-Taejin Kim and Minwoo Kwon."

**Hassanein, Ahmed; Harilal, Sivanandan and Fentiman, Audeen W**; nuclear engineering, from National Science Foundation, \$776,638, "Pire: Nuclear Energy Systems and Materials Under Extreme Conditions."

**Hassanein, Ahmed**; nuclear engineering, from Ross Graduate Fellowship/Assistantship, \$28,721, "Oliver, John."

**Hassanein, Ahmed**; nuclear engineering, from Ross Graduate Fellowship/Assistantship, \$28,721, "Sinclair, Gregory."

**Heckaman, Kelly L**; field extension educators, from Indiana State Department of Agriculture, \$9,000, "Indiana 4-H Dairy Youth Academy."

**Heeg, Marlene O**; pharmacy — administration, from Janssen Therapeutics, \$599,000, "HCV VOICE II: Optimizing Virological Outcomes with Integrated HCV Education."

**Heeg, Marlene O**; pharmacy — administration, from Ucb, Inc., \$50,000, "A 2014 National Educational Initiative on Therapeutics & Rheumatology for Rheumatology State Societies."

**Heeg, Marlene O**; pharmacy — administration, from Shire Pharmaceuticals, \$15,000, "2014 Rome Update from DDW."

**Heeg, Marlene O**; pharmacy — administration, from Abbvie Inc, \$400,000, "2014 National IBD Educational Initiative."

**Hertel, Thomas W**; agricultural economics, from Johann Heinrich Von Thunen Institute (vTI), \$19,675, "Global Trade Analysis Project (GTAP) Consortium."

**Hill, Catherine A**; entomology, from Showalter Trust, \$5,000, "2013 Showalter Awards - Year 2."

**Hirsch, Andrew S**; physics, from Winifred B. Bilsland Endowment, \$9,811, "Liu, Shuo."

**Hirsch, Andrew S**; physics, from Winifred B. Bilsland Endowment, \$9,595, "Yi, Li."

**Hirsch, Andrew S**; physics, from Purdue Doctoral Program, \$10,260, "Woods, Dewan."

**Hoffherr, Megan B;** field extension educators, from Toyota Motor Manufacturing Inc., \$2,500, "Science Sensation."

**Hoffmann, Christoph M;** computer science, from National Science Foundation, \$136,000, "Collaborative Research: Geometric Interoperability: Foundations and Systems."

**Hogan, Daniel F;** veterinary clinical science, from Cornell University, \$12,506, "Journal of Veterinary Cardiology Editorial."

**Hook, Tomas O;** forestry & natural resources, from University of Illinois at Champaign-Urbana, \$9,000, "Research Summer Internship Program."

**Howell, Kathleen;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$76,000, "Targeting, Guidance and Proximity Operations Near Small Bodies and Complex Multi-Body Regimes."

**Hubbard, Sarah M;** aviation technology, from Federal Aviation Administration, \$10,000, "Project 9: Linear LED Airfield Lighting."

**Irazoqui, Pedro;** biomedical engineering, from Showalter Trust, \$5,000, "2013 Showalter Awards — Year 2."

**Isaac-Lam, Meden F;** chemistry — North Central campus, from James Paul Sutton Medical Research Fund, \$5,000, "Vitamin Receptor-Targeted Agents for Cancer Therapy and Imaging."

**Ishii, Mamoru;** nuclear engineering, from Nuclear Regulatory Commission, \$25,083, "Task 1: Interfacial Area Transport in a 1-Inch Pipe."

**Ivantysynova, Monika;** agricultural & biological engineering, from Moog Inc, \$152,846, "Evaluation and Design Study of the Piston/Cylinder Interface of a Swash Plate Type Hydraulic Motor Operating with Jet Fuel."

**Ivantysynova, Monika;** agricultural & biological engineering, from Purdue Doctoral Program, \$31,131, "Li, Xiaofei."

**Ivantysynova, Monika;** agricultural & biological engineering, from Bosch Rexroth Corporation, \$427,856, "Advanced Hydraulic Systems for Next Generation of Skid Steer Loaders."

**Janaswamy, Srinivas;** food science, from Purdue Doctoral Program, \$28,138, "Carter, Carlos."

**Jett, Jane E;** field extension educators, from Posey County Community Foundation, \$1,000, "Baking Bread with Children."

**Jiang, Qing;** foods & nutrition, from University of North Carolina, \$17,978, "Phase II Studies of Gamma Tocopherol as an Intervention for Environmental Asthma."

**Jiang, Qing;** foods & nutrition, from Showalter Trust, \$5,000, "2014 Showalter Awards."

**Jiao, Dan;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$296,370, "Solution to a Few Open Problems in Inverse Design for High-Performance Integrated Circuit Synthesis in Full Electromagnetic Spectrum."

**Johnson, Mark C and Swabey, Matthew A;** electrical & computer engineering, from Chrysler Corporation, \$10,000, "Rear Seat Detection."

**Johnston, Cliff T and Ridgway, Kenneth D;** agronomy, earth & atmospheric sciences, from Pioneer Oil Company, \$150,000, "Reservoir Characterization of Selected Hydrocarbon Fields in the Illinois Basin: Establishing a Physical Framework for Chemically Enhanced Oil Recovery."

**Jones, Owen G;** food science, from The P & G Company, \$65,000, "Multi-Sponsored Industrial."

**Jones-Hall, Yava L;** comparative pathobiology, from Texas Technology University, \$10,000, "Evaluation of the Therapeutic Effects of a Hypoxia-Inducible Factor (HIF) Prolylhydroxylase Inhibitor in Chronic Gut Inflammation."

**Kak, Avinash C and Park, Johnny;** electrical & computer engineering, from Applied Research Associates, Inc, \$237,936, "Iarpa Finder 2011."

**Kelty, Sheila M;** Technical Assistance Program, from San Antonio Metro Health Dist, \$21,000, "Lean Healthcare for Public Health Yellow Belt Training and Certification Coaching."

**Kenttamaa, Hilkka I;** chemistry, from Pioneer Oil Company, \$75,000, "Development of Methodology for the Molecular Level Characterization of Crude Oil, Brine, and Other Complex Mixtures Relevant to Enhanced Oil Recovery."

**Kihara, Daisuke;** biological sciences, from National Science Foundation, \$161,052, "III: Small: Rapid Screening of Interacting Ligands and Proteins."

**Kihara, Daisuke;** biological sciences, from Showalter Trust, \$5,000, "2013 Showalter Awards — Year 2."

**Killion, Vicki J;** library administration, from US Agricultural Information Network, \$3,400, "Digitization of Purdue University Agricultural Documents (1923-1988)."

**Kim, Brad;** animal sciences, from Anzco Foods Limited, \$420, "Meat Research."

**Kim, Tae Yoon;** biomedical engineering, from National Science Foundation, \$255,000, "Collaborative Research: Kinetics of Cytoskeletal Turnover as Determinants of Force Generation and Transmission in Cells."

**Kinzer-Ursem, Tamara L;** biomedical engineering, from Lynn Interdisciplinary Graduate Fellowship, \$27,816, "Salameh, Wessam."

**Kinzer-Ursem, Tamara L;** biomedical engineering, from Purdue University F N Andrews Fellowship, \$31,767, "Parasa, Mrugesh."

**Klimeck, Gerhard;** electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$8,835, "Charles, James A."

**Knapp, Deborah W; Dhawan, Deepika; Ramos-Vara, Jose A; Adams, Larry G; Heng, Hock Gan and Weng, Hsin-Yi;** veterinary clinical science, Animal Disease Diagnostic Laboratory, comparative pathobiology, from Scottish Terrier Club of America, \$90,000, "Screening and Early Intervention to Positively Transform the Management of Bladder Cancer in Scottish Terriers."

**Konieczny, Stephen F;** biological sciences, from Purdue University, \$28,281, "1415 Cancer Center Special Incentive Research Grant (SIRG), S. Konieczny."

**Koslowski, Marisol;** mechanical engineering, from U.S. Department of Energy, \$17,017, "Plasticity in Ultra Fine Grained Materials."

**Kritchevsky, Janice E;** veterinary clinical science, from Enurga, Inc., \$28,644, "A Low Cost Anemia Detection Method for Livestock."

**Kruczenski, Luis M;** physics, from National Science Foundation, \$92,007, "Faculty Early Career Development (CAREER): Understanding Gauge Theories through String Theory."

**Kuhn, Richard J;** biological sciences, from Winifred B. Bilsland Endowment, \$9,775, "Zhu, Wenhan."

**Kuhn, Richard J;** biological sciences, from Purdue University F N Andrews Fellowship, \$28,138, "Lapham (Buuck), Rachelle a."

**Kuhn, Richard J;** biological sciences, from Bilsland, Winifred B. Endowment, \$9,775, "Madhivanan, Kayalvizhi."

**Kuhn, Richard J;** biological sciences, from Bilsland, Winifred B. Endowment, \$10,010, "Welkie, David G."

**Kuhn, Richard J;** biological sciences, from Bilsland, Winifred B. Endowment, \$9,775, "Robinson, Nathan J."

**Kulatunga, N A;** electrical & computer engineering technology, from Federal Aviation Administration, \$65,253, "Project #10 - LED Taxiway Lighting System Testing and Monitoring."

**Lacount, Douglas J;** medicinal chemistry & molecular pharmacology, from Egyptian Cultural and Educational Bureau, \$10,000, "Ahmed Voluntary Support."

**Leary, James F;** basic medical science, from Lynn Interdisciplinary Graduate Fellowship, \$10,655, "Schenk, Desiree."

**Lechtenberg, Victor L;** engagement, from Gene Haas Foundation, \$250,000, "Motor-sports — Science, Technology, Engineering & Mathematics (STEM)."

**Lee, Linda S;** agronomy, from Purdue University Special Initiative Program, \$5,228, "Smith, Ronald."

**Lee, Linda S;** agronomy, from Chappelle, \$300, "Rochem, Joel C."

**Lee, Linda S;** agronomy, from Purdue University Special Initiative Program, \$11,725, "Smith, Ronald."

**Lee, Linda S and Nies, Loring F;** agronomy, civil engineering, from Army Corps of Engineers, \$187,075, "Quantification of in Situ Chemical Reductive Defluorination (ISCRD) of Perfluoroalkyl Compounds in Foundwater Impacted by AFFFs."

**Li, Kai Ming;** mechanical engineering, from Federal Aviation Administration, \$80,000, "Noise Emission and Propagation Modeling."

**Liceaga, Andrea M;** food science, from The Hain Celestial Group, Inc., \$1,000, "Multi-Sponsored Gift- Sensory."

**Liceaga, Andrea M;** food science, from Lassonde Specialties Inc, \$2,000, "Multi-Sponsored Gift- Sensory."

**Liceaga, Andrea M;** food science, from Gilster-Mary Lee Corp., \$2,450, "Multi-Sponsored Gift- Sensory."

**Lill, Markus A;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$199,898, "Novel Computational Methods for Modeling Cytochrome P450 Mediated Drug Metabolism."

**Lister, Matthew L and Richards, Joseph L;** physics, from National Aeronautics and Space Administration, \$100,000, "Radio and Optical Monitoring of Radio-Loud Narrow-Line Seyfert 1 Galaxies."

**Litster, James D;** chemical engineering, from Process Systems Enterprise Limited, \$6,000, "Process Systems Enterprise."

**Lopez-De-Bertodano, Martin A;** nuclear engineering, from National Science Foundation, \$24,000, "Japan-US Seminar on Two-Phase Flow Dynamics."

**Love, David J;** electrical & computer engineering, from University of Notre Dame, \$75,000, "CIF: Medium:Modeling, Analysis, and Code Design for Portable Wireless Device Transmitters Subject to an Electromagnetic Exposure Constraint."

**Lucht, Robert P and Gore, Jay P;** mechanical engineering, from Combustion Science and Engineering Inc, \$70,000, "Nonequilibrium Plasma-Assisted Combustion-Efficiency Control in Vitiated Air."

**Lucht, Robert P;** mechanical engineering, from King Abdullah University of Science and Technology, \$85,001, "Extreme Combustion: Diagnostics Development for Extreme Environments."

**Luke, Eileen M and Hill, Michael A;** CERIS, from National Institute of Food & Agriculture, \$205,037, "National Plant Diagnostic Network (NPDN) National Database/ National Network of Diagnostic Centers."

**Lynall, Matthew D;** management, from Zoetis, \$2,500, "Krannerts Experiential Learning Initiative (ELI)."

**Lynall, Matthew D;** management, from Dow Agro Sciences, \$3,284, "Krannerts Experiential Learning Initiative (ELI)."

**Lynall, Matthew D;** management, from Dow Agro Sciences, \$4,004, "Krannerts Experiential Learning Initiative (ELI)."

**Mahapatra, Cecon T and Sepulveda, Maria S;** forestry & natural resources, from American College of Lab Animal Foundation, \$20,000, "Development of Fluorescent See-through Transgenic Fish for High Throughput Screening of Endocrine Disrupting Chemicals."

**Malis, Oana;** physics, from National Science Foundation, \$15,350, "Faculty Early Career Development (CAREER): Nonpolar Vertical-Transport III-Nitride Devices for Near-Infrared Applications." (a Discovery Park award — Bindley Bioscience Center)

**Martinez, Carlos J;** materials engineering, from Scot Industries Inc, \$32,000, "Scot Industries Inc."

**Mauer, Lisa J; Applegate, Bruce M; Bae, Euiwon; Bhunia, Arun K; Irudayaraj, Joseph M; Ladisch, Michael R; Robinson, Joseph P; Deering, Amanda J; Oliver, Haley F; Pruitt, Robert E and Singh, Manpreet;** food science, mechanical engineering, agricultural & biological engineering, basic medical science, botany & plant pathology, from Agricultural Research Service, \$1,231,194, "Improved Detection Techniques for Food Borne Pathogens."

**Mauer, Lisa J;** food science, from Ross Graduate Fellowship/Assistantship, \$28,138, "Sanchez, Juan."

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Abbott & Cobb Inc., \$400, "Research for 1995 Vegetable Variety Trial Program."

**McCann, James A;** political science, from Russell Sage Foundation, \$36,675, "Visiting Scholar Appointment."

**McComb, Sara A;** nursing, from National Science Foundation, \$264,339, "EAGER: Identifying and Examining Operational Skills that Facilitate Effective Team Performance."

**McLennan, Michael J;** academic technologies, from PHS-NIH National Cancer Institute, \$94,649, "Establishing a Prototype Hub for the National Cancer Informatics Program."

**Melosh, Henry J;** physics, from National Aeronautics and Space Administration, \$214,266, "Hazards from Intense Meteoroid Fireballs."

**Mengiste, Tesfaye D;** botany & plant pathology, from National Science Foundation, \$93,999, "Histone Modifications and Mediator Complex in Plant Innate Immunity to Necrotrophic Fungi."



**Merwade, Venkatesh M and Song, Xiaohui C;** civil engineering, academic technologies, from University of North Carolina at Chapel Hill, \$45,498, "An Interactive Software Infrastructure for Sustaining Collaborative Community Innovation in the Hydrologic Sciences (A Subcontract to Unc Chapel Hill); Amendment 2."

**Merwade, Venkatesh M;** civil engineering, from Chappelle, \$19,785, "Mondel, Berned S."

**Merwade, Venkatesh M;** civil engineering, from Purdue Doctoral Program, \$31,085, "Holberg, Jessica."

**Merwade, Venkatesh M;** civil engineering, from Ross Graduate Fellowship/Assistantship, \$28,721, "Jafarzadegan, Keighobd."

**Mesecar, Andrew D;** biological sciences, from Purdue University, \$28,281, "1415 Cancer Center Special Incentive Research Grant (SIRG), a Mesecar."

**Meyer, Scott E and Anderson, William E;** mechanical engineering, aeronautical & astronautical engineering, from Space Exploration Technologies Corp, \$112,000, "SpaceX Single Element Testing."

**Miller, Joann L;** liberal arts — administration, from Purdue University Special Initiative Program, \$14,456, "Albrecht, Ashley a."

**Mintert, James R;** agriculture — administration, from Indiana State Department of Agriculture, \$14,498, "Hoop House 2."

**Moon, Sidney M;** education — administration, from Jack Kent Cooke Foundation, \$25,000, "Enyi Jen - 2014 Fellowship."

**Morris, Sammie L and Grimm, Tracy B;** library administration, from the Childrens Museum, \$24,902, "Curious Scientific Investigator (CSI): Beyond Spaceship Earth Exhibit Collaboration."

**Mosier, Nathan S;** agricultural & biological engineering, from BASF Corp, Chemicals Division, \$3,000, "BASF Test Agreement for Oligosaccharide Analysis."

**Motavalizadeh Ardekani, Arezoo;** mechanical engineering, from National Science Foundation, \$129,610, "CAREER: Fluid Dynamics of Bacterial Aggregation and Formation of Biofilm Streamers."

**Motavalizadeh Ardekani, Arezoo;** mechanical engineering, from National Science Foundation, \$49,949, "EAGER: Collaborative Research: Cloaking in Stratified Fluids."

**Murray, Michael D;** pharmacy practice, from Regenstrief Institute for Health Care, \$28,940, "Regenstrief Institute Data Core."

**Mutchler, Jane F;** management — Calumet campus, from Indiana University, \$15,000, "Northwest Indiana Small Business Development Center- IUN Cash Match Support."

**Nauman, Eric A and Dickerson, Darryl A;** mechanical engineering, minority engineering program, from Purdue Research Foundation, \$20,000, "Purdue Research Foundation (PRF) Portion: Allosource — Early Phase Validation."

**Nauman, Eric A and Dickerson, Darryl A;** mechanical engineering, minority engineering program, from Allosource, \$25,000, "Allosource — Early Phase Validation."

**Neu, Corey P;** biomedical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$314,055, "Probing Osteoarthritis Pathogenesis by Noninvasive Imaging of Cartilage Strain."

**Neumeister, Norbert;** physics, from Fermi National Accelerator Laboratory, \$72,000, "US Compact Muon Solenoid (CMS) Operations at LHC (Upgrade-FPix)."

**Neville, Jennifer L;** computer science, from National Science Foundation, \$99,087, "Faculty Early Career Development (CAREER): Machine Learning Methods to Support Computational Social Science."

**Nita-Rotaru, Cristina;** computer science, from National Science Foundation, \$219,740, "TWC: Small: Collaborative: a Unifying Framework for Theoretical and Empirical Analysis of Secure Communication Protocols."

**Olek, Jan and Weiss, William J;** civil engineering, from Solidia Technologies, \$250,000, "Failure Mechanisms in Concrete: A Comparative Study of the Ordinary Portland Cement (OPC) and Solidia Cement (SCC) Concretes."

**Oliver, Haley F;** food science, from Bilsland, Winifred B. Endowment, \$9,373, "Pleitner, Aaron M."

**Oliver, Haley F;** food science, from Purdue Doctoral Program, \$27,578, "Garrett, Steven N."

**Ong, Chee-Mun;** electrical & computer engineering, from Ross Graduate Fellowship/Assistantship, \$18,425, "Mahadik, Kanak V."

**Otto, Kevin J;** biological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$0, "2014 GS SRG-BSDT."

**Ouyang, Zheng;** biomedical engineering, from Purdue University F N Andrews Fellowship, \$31,767, "Zou, Ran."

**Panitch, Alyssa;** biomedical engineering, from George Washington Carver Fellowship, \$31,767, "Vazquez-Portalatin, Nelda M."

**Parashar, Neeti;** chemistry and physics - calumet campus, from University of Notre Dame, \$18,000, "QuarkNet Program at Purdue University Calumet."

**Parashar, Neeti;** chemistry and physics - calumet campus, from University of Nebraska-Lincoln, \$31,031, "U.S. Compact Muon Solenoid (CMS) Phase-1 Upgrades."

**Park, Kinam;** biomedical engineering, from Showalter Trust, \$60,000, "Virtual Human for Drug Testing."

**Patton, Aaron J;** agronomy, from Midwest Regional Turf Foundation, \$20,000, "Turfgrass Research."

**Pekarek, Steven D and Sudhoff, Scott D;** electrical & computer engineering, from Federal Aviation Administration, \$110,403, "Project #11 - Modeling and Specification of LED Based Runway Lighting Systems."

**Pekarek, Steven D and Sudhoff, Scott D;** electrical & computer engineering, from National Aeronautics and Space Administration, \$108,459, "NRI-Small: Actuators for Safe, Strong, and Efficient Humanoid Robots."

**Pekarek, Steven D;** electrical & computer engineering, from Georgia Institute of Technology, \$136,255, "Optimized and Modular Architectures for Grid Integration of a Cluster of Hydrokinetic Energy Resources."

**Peroulis, Dimitrios;** electrical & computer engineering, from Ima Life, \$33,750, "IMA Life." (a Discovery Park award — Birck Nanotechnology Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from Ima Life, \$11,250, "IMA Life." (a Discovery Park award — Birck Nanotechnology Center)

**Pipes, R Byron;** aeronautical & astronautical engineering, from Oak Ridge National Laboratory, \$72,971, "Advanced Composite Manufacturing: Additive Manufacturing, Simulation & Recycling." (a Discovery Park award — Institute for Defense Initiatives)

**Pistilli, Matthew D;** Office of Institutional Research, Assessment and Effectiveness, from John N. Gardner Institute for Excellence, \$77,778, "Gardner Institute Fellow for Innovation and Analytics."

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$68,000, "Performance Characterization of Alternative Hypergolic Propellants NSTRF Fellowship for Jared Willits."

**Prabhakar, Sunil K;** computer science, from Purdue Doctoral Program, \$20,175, "Avery, Jeffrey K."

**Prabhakar, Sunil K;** computer science, from Purdue Doctoral Program, \$2,052, "Oluwatimi, Oyindamola."

**Proctor, Robert W and Takahashi, George;** psychological science, academic technologies, from General Motors Corp, \$64,503, "General Motors Urban Active Solutions Pev Project."

**Qi, Minghao;** electrical & computer engineering, from Alion Science and Technology, \$35,000, "Development of a Biosensing Platform Using Microresonators." (a Discovery Park award — Birck Nanotechnology Center)

**Qiao, Li;** aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$120,000, "Combustion Chemistry and Dynamics in Nanoscale Confined Environments."

**Qu, Ming;** civil engineering, from Sanders Pre Cast Concrete Systems, \$49,866, "Wall Panel System Design Platform for Sanders."

**Quagrainie, Kwamena K;** agricultural economics, from Oregon State University, \$35,016, "Enhancing the Profitability of Small Aquaculture Operations in Kenya and Tanzania."

**Rajwa, Bartłomiej P;** biological sciences, from J M Malone and Son Inc, \$5,918, "Triploidy Screening of Chinese Grass Carp Embryos Using Flow Cytometry." (a Discovery Park award — Bindley Bioscience Center)

**Ramani, Karthik;** mechanical engineering, from National Science Foundation, \$4,500, "PFI: Air Technology Translation - Gesture-Based Free Form Shape Modeling - Travel Supplement."

**Ramkrishna, Doraiswami;** chemical engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,138, "Verma, Parul."

**Rao, P Suresh C;** civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,138, "Klinkhamer, Christopher."

**Rao, Sanjay G and Tawarmalani, Mohit;** electrical & computer engineering, management, from National Science Foundation, \$101,346, "Computer Systems Research (CSR): Medium: Collaborative Research: Architecting Performance Sensitive Applications for the Cloud."

**Revankar, Shripad T;** nuclear engineering, from Alion Science and Technology, \$30,000, "Navy Anti-Tamper/Nano-Tritium Battery Testing."

**Rhoads, Jeffrey F;** mechanical engineering, from North Carolina State University, \$24,417, "Semiwave Multidisciplinary University Research Initiative (MURI): Sound and Electromagnetic Interacting Waves."

**Rhoads, Jeffrey F; Bolton, J S and Chiu, George T;** mechanical engineering, from Google Inc, \$85,206, "Model-Enabled Predictive Design of Small-Scale Electrostatic Loud Speakers."

**Richert, Brian T;** animal sciences, from Agricultural Research Service, \$16,328, "Dietary Modification to Eliminate Ulcers in Sows."

**Richert, Brian T;** animal sciences, from Zinpro Corporation, \$10,000, "Swine Research."

**Richmond, Douglas S;** entomology, from Syngenta Crop Protection Inc., \$19,000, "Turfgrass Entomology Research."

**Roberts, Felicia D;** communication, from Lynn Interdisciplinary Graduate Fellowship, \$17,675, "Ozpek, Mirisen."

**Robicheaux, Francis J;** physics, from National Science Foundation, \$40,000, "Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation."

**Robicheaux, Francis J;** physics, from U.S. Department of Energy, \$90,000, "Atoms and Ions Interacting with Particles and Fields."

**Rochefford, Torbert R;** agronomy, from Michigan State University, \$241,502, "Elucidating the Genetic Architecture of Provitamin a and Vitamin E Biosynthesis in Seed; Amendment 5, Grant 104754."

**Rossmann, Michael G;** biological sciences, from Washington University, \$295,041, "Antibody-Based Protection Against Dengue Virus."

**Sadeghi, Farshid;** mechanical engineering, from Caterpillar Inc., \$61,600, "CAT Turbocharger Instrumentation and Torque Measurement."

**Sanger, Phillip A;** electrical & computer engineering technology, from Technology Service Corporation, \$20,000, "Exciting Senior Capstone Project for the US O."

**Santagata, Maria Caterina;** civil engineering, from Purdue University F N Andrews Fellowship, \$13,272, "Getchell, Amy."

**Saunders, Michael R;** forestry & natural resources, from Department of the Navy, \$90,242, "Application of Ecological Forestry Principles to Regenerate Oak-Dominated Hardwood Ecosystems."

**Schoenlein, William E;** biomedical engineering, from Medicine Institute, Incorporated, \$329,425, "Testing Prototype Vascular Devices in an Animal Model: CI-V0, CI-NXT, CI-AVE, CI HEDA Series and Various."

**Schweitzer, James F;** health sciences, from Tippecanoe County Board of Commissioners, \$4,800, "Exchange Student Contract."

**Scott, David E;** Indiana state chemist, from Environmental Protection Agency, \$288,907, "FY 2014 EPA Pesticide Cooperative Agreement — Amendment for Remaining Balance."

**Sepulveda, Maria S;** forestry & natural resources, from Embassy of the Arab Republic of Egypt, \$20,000, "Eceb Fellowship for Ahmen Mohamed Abdel-Moneim."

**Sesmero, Juan P;** agricultural economics, from Catholic Relief Services, \$10,000, "The Effect of Small Scale Irrigation on Dietary Diversity: A Comparative Study in Ethiopia."

**Shepardson, Daniel P; Bayley, William G; Sands, Philip A; Smith, Steven C and Walker, William S;** science — administration, chemistry, computer science, earth & atmospheric sciences, from Lafayette School Corporation, \$11,809, "Content Thematic Units for Integrated Science, Technology, Engineering & Mathematics (STEM) Education."

**Shepson, Paul B;** chemistry, from National Science Foundation, \$139,918, "Collaborative Research: the O-Buoy Network of Chemical Sensors in the Arctic Ocean."

**Shepson, Paul B;** chemistry, from National Science Foundation, \$209,572, "Studies of the Impact of Organic Nitrates on Nitrogen Cycling and Aerosol Production."

**Shi, Riye;** basic medical science, from National Institutes of Health, \$26,715, "Role of Acrolein in Spinal Cord Injury."

**Shih, Tom I;** aeronautical & astronautical engineering, from Ames Laboratory, \$50,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Turbines."



**Siegmund, Thomas H;** mechanical engineering, from National Science Foundation, \$195,752, "Intergovernmental Personnel Assignment (IPA) Assignment for Thomas Siegmund-Extension."

**Singh, Manpreet;** food science, from Lynda D and Jeffery A Bricker, \$50, "Multi-Sponsored Gift."

**Sloan, Mary Anne;** global affairs, from Womens Healthcare of Southern Indiana, \$1,520, "Multi-Sponsor Account I-HITEC."

**Sloan, Mary Anne;** global affairs, from Oaklawn Psychiatric Center, \$4,560, "Multi-Sponsor Account I- HITEC."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Li, Yue."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Lin, Lu."

**Smith, Mjt;** graduate school administration, from National Science Foundation, \$616,012, "NSF Graduate Research Fellowship Program (GRFP)."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Purohit, Vatsal."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Zhang, Gaonan."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Wang, Ruixin."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Sweet, Craig."

**Smith, Mjt;** graduate school administration, from Institute of International Education, \$14,353, "50% GTs for IIE Fellows Daidal, Tsegelsky, Irawati."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Lee, Youngwoo."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Alabdi, Lama."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Mikhailovskii, Oleg."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Kelsey, Sarah."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Ganzen, Logan."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Alpsy, Aktan."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Liu, Zhipeng."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Akhand, Saeed Salehin."

**Smith, Mjt;** graduate school administration, from Purdue University Special Initiative Program, \$10,260, "Kozan, Kadir."

**Smith, Mjt;** graduate school administration, from Interdisciplinary Fellowships, \$35,651, "Lacombe, Jonathan."

**Snyder, Margie E; Hudmon, Karen S and Murray, Michael D;** pharmacy practice, from PHS-Ahrq Agency/Healthcare Res & Quality, \$139,753, "Optimizing Medication Therapy Management for Chronically Ill Medicare Part D Beneficiaries."

**Son, Steven F and Strachan, Alejandro H;** mechanical engineering, materials engineering, from Office of Naval Research, \$151,361, "Chemical Decomposition in High Energy Density Materials Induced by Coupled Acoustic and Electromagnetic Energy."

**Spafford, Eugene H;** computer science, from Multi-Sponsored Industrials, \$2,455, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

**Stansbury, Betty M;** airport operations, from Federal Aviation Administration, \$19,331, "Installation of Prototype Airfield Lighting Circuit."

**Stefanov, Plamen D;** mathematics, from Purdue University, \$27,868, "1314 Purdue Research Foundation (PRF) Research Grant for P Stefanov."

**Stewart, Kara R;** animal sciences, from Ab Agri Limited, \$15,000, "Swine Research."

**Strachan, Alejandro H; Haley, Benjamin P and Li, Chunyu;** materials engineering, academic technologies, from National Science Foundation, \$349,804, "Si2-Sse Collaborative Research: Molecular Simulations of Polymer Nanostructures in the Cloud." (a Discovery Park award — Birck Nanotechnology Center)

**Straw, Mark L;** animal sciences, from PHS-FDA Food and Drug Administration, \$45,657, "Implementation of 21 CFR 118:Inspection of Indiana Egg Producing Facilities."

**Stuart, Jeffrey J; Sanmiguel, Phillip J and Thimmapuram, Jyothi;** entomology, horticulture & landscape architecture, computer science, from Purdue University, \$49,999, "Defeating Transmission of Rice Hoja Blanca Virus in Latin America." (a Discovery Park award — Cyber Center)

**Subbarayan-Shastri, Ganesh;** mechanical engineering, from Eaton, \$7,500, "Testing Thermal Conductivity of Composite Samples for Eaton Corporation."

**Sudhoff, Scott D;** electrical & computer engineering, from Florida State University, \$133,000, "ESRDC Swampworks Fy2013 Proposal: Purdue Efforts Amendment No. 2."

**Swaminathan, Vishwanathan and Neville, Jennifer L;** computer science, from National Science Foundation, \$160,463, "III:Small:Parametric Statistical Models to Support Statistical Hypothesis Testing Over Graphs-Grant 106192 Amendment 001."

**Swaminathan, Vishwanathan and Neville, Jennifer L;** computer science, from National Science Foundation, \$167,911, "III:Small:Parametric Statistical Models to Support Statistical Hypothesis Testing Over Graphs."

**Talavage, Thomas M;** electrical & computer engineering, from Purdue Doctoral Program, \$31,165, "Svaldi, Diana."

**Taleyarkhan, Rusi P;** nuclear engineering, from Purdue Doctoral Program, \$28,755, "Grimes, Thomas F."

**Taylor, Lynne S;** industrial & physical pharmacy, from National Science Foundation, \$53,955, "Collaborative Research: Polysaccharide Derivatives for Enhanced Drug Delivery."

**Thom, James M;** aviation technology, from Baere Aerospace Consulting Inc, \$16,481, "Baere Aerospace Extended Materials Compatibility Testing."

**Thompson, David H;** chemistry, from Purdue University, \$41,272, "Office of the Vice President for Research (OVPR) Bridge Funding: David Thompson."

**Tilton, Mark C;** political science, from Dolores Kohl Education Foundation, \$241,291, "Climate Change and Renewable Policy in Japan, France, Germany and the US."

**Tobias, Justin L;** economics, from Purdue Doctoral Program, \$8,437, "Buhrmann, Jacklyn."

**Tobias, Justin L;** economics, from Purdue Doctoral Program, \$8,437, "Hudja, Stanton."

**Tobias, Justin L;** economics, from Ross Graduate Fellowship/Assistantship, \$16,987, "Zhao, Haiqing."

**Topp, Elizabeth M;** industrial & physical pharmacy, from Baxter Healthcare Corporation, \$9,500, "Solid-State and Solution-State H-D Exchange Methodology."

**Trapp, Robert J and Baldwin, Michael E;** earth & atmospheric sciences, from National Science Foundation, \$143,209, "Collaborative Research: Improved Understanding of Convective-Storm Predictability and Environment Feedbacks."

**Troy, Cary D;** civil engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Cannon, David."

**Tyner, Wallace E;** agricultural economics, from Indiana Corn Marketing Council, \$30,000, "Corn Stover to Aviation Biofuels - Enhanced Policy and Risk Analysis."

**Tyner, Wallace E and Taheripour, Farzad;** agricultural economics, from Federal Aviation Administration, \$250,000, "Techno-Economic and Lifecycle Analysis of Alternative Aviation Biofuels Supply Chains."

**Tzempelikos, Athanasios;** civil engineering, from Purdue University, \$24,563, "1314 Purdue Research Foundation (PRF): a Tzempelikos (Set Up 7/28/14)."

**Tzempelikos, Athanasios;** civil engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Lee, Seung Jae."

**Tzempelikos, Athanasios;** civil engineering, from Winifred B. Bilsland Endowment, \$19,891, "Chan, Ying-Chieh."

**Useem, Bert;** sociology, from Ross Graduate Fellowship/Assistantship, \$7,695, "Cox, Jenean."

**Vacca, Andrea;** agricultural & biological engineering, from Thomas Magnete GmbH, \$44,865, "Numerical Modeling of Gerotor Units."

**Varma, Amit H;** civil engineering, from Purdue Doctoral Program, \$31,165, "Chicchi, Rachel A."

**Varma, Amit H;** civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,138, "Azzuni, Eyas."

**Varma, Amit H;** civil engineering, from David M. Knox Endowment, \$29,759, "Nettesheim, Laura."

**Varma, Arvind;** chemical engineering, from Purdue University F N Andrews Fellowship, \$31,767, "Vega-Vila, Juan C."

**Varma, Arvind;** chemical engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Bates, Jason S."

**Varma, Arvind;** chemical engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Kester, Phillip M."

**Varma, Arvind;** chemical engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Kilmer, Claire E."

**Viens, Frederi G;** mathematics, from National Science Foundation, \$150,000, "Topics in Stochastic Analysis and Malliavin Calculus."

**Vilensky, Joel A;** medical education — Fort Wayne campus, from Indiana University, \$1,701, "FY 14-15 Indiana University School of Medicine (IUSM)-Fort Wayne: Dr. Vilensky Research Savings Fund."

**Vitek, Jan; Vitek, Olga; Cleveland, William S; Grama, Ananth Y and Jagannathan, Suresh;** computer science, statistics, from National Science Foundation, \$0, "SI2: Conceptualization: Dynamic Languages for Scalable Data Analytics."

**Vlachos, Pavlos;** mechanical engineering, from Pioneer Oil Company, \$75,000, "Experimental Evaluation of Multi-Phase Flow through Porous Media for Enhanced Oil Recovery."

**Vlachos, Pavlos;** mechanical engineering, from Pioneer Oil Company, \$75,000, "Evaluation and Benchmarking of Reservoir Computational Modeling for Enhanced Oil Recovery."

**Voyles, Richard M;** technology — administration, from Office of Science Technology Policy, \$0, "OSTP Intergovernmental Personnel Assignment (IPA) Voyles."

**Vuolo, Michael C and Kelly, Brian C;** sociology, from PHS-NIH National Institute on Drug Abuse, \$70,805, "Tobacco Control Policies and Individual-Level Trajectories of Youth Cigarette Use."

**Wang, Chih-Chun;** electrical & computer engineering, from National Science Foundation, \$493,142, "CIF: Small: Network Information Theory Meets Network Optimization: Optimal Linear Network Coding for Packet Erasure Networks."

**Warren, Timothy H;** chemistry, from National Science Foundation, \$300,000, "Modeling Nitric Oxide Signaling Chemistry at Non-Heme Sites."

**Weatherman, Kara D;** pharmacy practice, from Cardinal Health, \$10,000, "Cardinal Health Fellowship in Clinical Nuclear Pharmacy and Radiopharmaceutical Safety."

**Weaver, Connie M;** foods & nutrition, from Chappelle, \$19,785, "O'Connor, Lauren."

**Weaver, Connie M;** foods & nutrition, from American Yeast, \$1,667, "Lallemand/American Yeast Gift."

**Weiss, William J;** civil engineering, from Indiana Department of Transportation, \$61,483, "A Mobile Concrete Laboratory to Support Testing in 2014 on Internal Curing and High Early Strength Patches-SPR3858."

**Weiss, William J;** civil engineering, from Ross Graduate Fellowship/Assistantship, \$28,721, "Todd, Nathan."

**Weiss, William J;** civil engineering, from Portland Cement Association Education Foundation, \$20,000, "PCA Education Foundation J.P. Gleason Fellowship Award 2014 for Yaghoob Farnam."

**Wild, Robert E;** chemistry, from Ross Graduate Fellowship/Assistantship, \$17,878, "Wittrock, Zachary R."

**Wild, Robert E;** chemistry, from Purdue University F N Andrews Fellowship, \$28,358, "Russell, Shane R."

**Williams, Kipling D;** psychological science, from National Science Foundation, \$9,999, "The Development of a Shared Software Platform for the Scientific Study of Social Exclusion."

**Wise, Kiersten A;** botany & plant pathology, from North Central Soybean Research Program, \$120,444, "Understanding the Role of Fungicide Programs on Soybean Health and Charcoal Rot Development."

**Wise, Kiersten A;** botany & plant pathology, from North Central Soybean Research Program, \$74,036, "Disease Study Group: Focus on New and Emerging Soybean Diseases - Year 2."

**Xia, Jianlin;** mathematics, from National Science Foundation, \$202,440, "Faculty Early Career Development (CAREER): Structured Matrix Computations: Foundations, Methods, and Applications."

**Yang, Won Sik;** nuclear engineering, from Ross Graduate Fellowship/Assistantship, \$28,755, "Yang, Gang."

**Yen, Jui-Hung;** medical education — Fort Wayne campus, from Indiana University, \$400,000, "FY14-15 Indiana University School of Medicine (IUSM)-Fort Wayne Dr. Yen Start-Up Fund."

**Yeo, Yoon;** industrial & physical pharmacy, from Showalter Trust, \$5,000, "2014 Showalter Awards."

**Yeo, Yoon;** industrial & physical pharmacy, from Embassy of the Arab Republic of Egypt, \$70,899, "Fellowship for Sara Abouelmagd."

**Yu, Wenbin;** aeronautical & astronautical engineering, from Georgia Institute of Technology, \$16,769, "Next-Generation VABS for More Realistic Modeling of Composite Blades."

**Zavattieri, Pablo D;** civil engineering, from University of California-Riverside, \$85,034, "Uncovering and Validating Toughening Mechanisms in High Performance Composites."

**Zhang, Haiyan H;** mechanical engineering technology, from Eaton, \$50,000, "Center for Technology Development Consortium (CTD)."

**Zhou, Chenn Q and Wu, Bin;** Center for Innovation thru Visual & Simulation, from Steel Dynamics Inc, \$15,000, "Steel Dynamics: Modeling of Weld Plant Production and Logistics for Rail Products for Steel Dynamics, Structural and Rail Division."

**Zhou, Chenn Q and Wu, Bin;** Center for Innovation thru Visual & Simulation, from Arcelormittal USA, \$45,819, "Comparison and Optimization of Blast Furnace Tuyere Designs."

**Zwier, Timothy S;** chemistry, from National Aeronautics and Space Administration, \$236,000, "Laboratory Studies of Cyanoacetylene Photochemistry in Titans Atmosphere: Expanding Current Photochemical Models of Nitriles." ■

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