

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

June 2013

**Abbott, Angela R;** health and human sciences, from CICOA, \$30,000, "Central Indiana Council on Aging Inc. (CICOA)-Dining with Diabetes Academy."

**Abbott, Angela R;** health and human sciences, from CICOA, \$38,200, "Central Indiana Council on Aging Inc. (CICOA)-Dining with Diabetes Academy."

**Abel, Steven R and Jones, Kellie L;** pharmacy practice, from Clarian Health Partners, Inc., \$82,865, "Co-Funded Position with Indiana University Health."

**Adeola, Olayiwola;** animal sciences, from DSM Nutritional Products, Inc., \$85,000, "DSM."

**Adeola, Olayiwola;** animal sciences, from AB Agri Limited, \$28,000, "AB Vista."

**Adler, Howard;** hospitality & tourism, from Purdue University, \$17,608, "The Impact of Perceived Supervisory Support on Hotel Employee Well-Being and Turnover Intention."

**Agnew, Christopher R;** psychological science, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,987, "2013 GS SRG - PSYS."

**Agnew, Christopher R;** psychological science, from Purdue University, \$17,608, "Is the Hostile Attribution Bias Really a Bias? Examining the Relationship Between Threat Detection and Dispositional Distrust."

**Aguilar, Ruben C; Thompson, David H; Crist, Scott A and Ratliff, Timothy L;** biological sciences, chemistry, comparative pathobiology, from PHS-NIH National Cancer Institute, \$50,677, "Targeting of Bladder Tumor Cells by Nanocarriers Bearing Bacillus Calmette-Guerin Fibronectin Attachment of Protein."

**Ajuwon, Kolapo;** animal sciences, from Nutriad, \$17,500, "Swine Research."

**Alexeenko, Alina;** aeronautical & astronautical engineering, from IMA Edwards, \$5,000, "IMA Edwards."

**Alexeenko, Alina;** aeronautical & astronautical engineering, from National Science Foundation, \$24,025, "Career Life Balance Supplement: Faculty Early Career Development (CAREER): Quantifying and Exploiting Knudsen Thermal Forces in Nano/Microsystems."

**Allen, Emily L;** English, from Purdue University, \$17,608, "The Law and the Lady: Consent and Marriage in Nineteenth-Century British Literature."

**Anderson, Joseph M;** agronomy, from Agricultural Research Service, \$85,244, "Improvement of Soft Winter Wheat that is Resistant to FHB and Adapted to Indiana."

**Anderson, William E;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$68,000, "Measurement of Combustion Response to Transverse Modes at High Pressure- NASA Space Technology Research Fellowship (NSTRF) Fellowship for Matt Wierman."

**Andrisani, Ourania M;** basic medical science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$308,439, "Mechanism(s) of Hepatocyte Transformation by the Hepatitis B Virus X Protein."

**Applegate, Todd J;** animal sciences, from Agricultural Research Service, \$127,106, "Effects of Heat Stress on Farm Animal Well-Being."

**Arapura, Donu V;** mathematics, from Purdue University, \$17,608, "Picard Maximal Varieties."

**Aref, Walid G; Ouzzani, Mourad and Gribnikov, Michael R;** computer science, Cyber Center, biological sciences, from Qatar National Research Fund, \$367,407, "Scientific Data Management on the Cloud." (a Discovery Park award — Cyber Center)

**Basu, Saugata;** mathematics, from National Science Foundation, \$368,837, "AF: Small: Algorithmic and Quantitative Semi-Algebraic Geometry and Applications."

**Baudoin, Fabrice;** mathematics, from Purdue University, \$17,608, "Curvature Dimension Inequalities and Related Functional Inequalities on Contact Manifolds."

**Bayley, William G;** chemistry, from Multi-Sponsored Industrials, \$299, "Instrumentation Van Project."

**Beaulieu, Lionel J;** agricultural economics, from Mississippi State University, \$400,424, "Stronger Economies Together - USDA RD Cooperative Agreement No. RBS-10-39."

**Beckerman, Janna L;** botany & plant pathology, from Ross Graduate Fellowship-Assistantship, \$15,893, "Abott, Chelsi P."

**Ben-Amotz, Dor;** chemistry, from Purdue University, \$17,608, "Spectroscopic, Kinetic and Thermodynamic Studies of Molecular Interfacial Ion Binding."

**Bergmann, Michael A and Brower, Jeffrey E;** philosophy, from John Templeton Foundation, \$60,298, "Faith and Reason: Themes from Swinburne."

**Bhattacharya, Tithi;** history, from Purdue University, \$17,608, "Tools of Emancipation: Western Science and the Empowerment of Women in Colonial India."

**Bhunja, Arun K and Vemulapalli, Ramesh;** food science, comparative pathobiology, from University of Notre Dame, \$66,594, "A Rapid and High-Throughput Pathogen RNA Detection System for Dairy Products."

**Bigelow, Cale A;** agronomy, from Agrotain International LLC, \$10,000, "Putting Greens Research."

**Blackmon, Samantha;** English, from Purdue University, \$17,608, "Retheorizing Technological Environments: Booth Babes, Bitches and the (Em)bodiment of Procedural Ethics."

**Blankenship, Bonnie T and Harper, William A;** health & kinesiology, from Indiana Department of Education, \$45,001, "Purdue Athletes Life Success Program 2013 - PALS\_IDOE Summer Food Program."

**Blatchley, Ernest R;** civil engineering, from Citizens Energy Group, \$92,050, “Design and Validation Protocol for Large-Scale UV Disinfection Systems for Municipal Wastewater: Quantification of Ultraviolet (UV) Dose-Response Behavior, Including Variability.”

**Bofferding, Laura C;** curriculum & instruction, from Purdue University, \$17,608, “Through Their Eyes: Early Childhood Teachers as Learners and Teachers of Mathematics.”

**Bofferding, Laura C;** curriculum & instruction, from National Academy of Education, \$55,000, “Investigating the Conceptual Basis for the Early Introduction of Negative Numbers.”

**Boltasseva, Alexandra; Narimanov, Evgueni E and Shalaev, Vladimir M;** electrical & computer engineering, from Army Research Office, \$150,000, “Unlocking New Physics with Improved Plasmonic Materials-INC Grant 105573.” (a Discovery Park award — Birck Nanotechnology Center)

**Boltasseva, Alexandra; Narimanov, Evgueni E and Shalaev, Vladimir M;** electrical & computer engineering, from Army Research Office, \$15,000, “Unlocking New Physics with Improved Plasmonic Materials.” (a Discovery Park award — Birck Nanotechnology Center)

**Bouck, Emily C;** educational studies, from Purdue University, \$17,608, “Comparing the Effectiveness of Two Appbased Number Lines in Teaching Price Comparison for Students with Autism.”

**Boudouris, Bryan W; Beaudoin, Stephen P; Doucette, Suzanne C; Greeley, Jeffrey P; Liu, Julie C; Xia, Yu and Yuan, Chongli;** chemical engineering, chemistry, from American Chemical Society, \$10,000, “ACS Project SEED at Purdue University 2013.”

**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; Modification 1 for Grant 105900.”

**Bouman, Charles A;** electrical & computer engineering, from UES Inc., \$29,000, “Microscopy Collaboration.”

**Braile, Lawrence W;** earth & atmospheric sciences, from Multi-Sponsored Industrials, \$100, “SAGE Industrial.”

**Braile, Lawrence W;** earth & atmospheric sciences, from Society of Exploration Geophysicists, \$20,000, “Support for SAGE (Summer of Applied Geophysical Experience) 2013.”

**Briggs, Scott D;** biochemistry, from Purdue University, \$17,608, “Understanding the Role of Set3 in Ergosterol Gene Expression and Ergosterol Production in *Saccharomyces Cerevisiae*.”

**Briggs, Scott D;** biochemistry, from Purdue University, \$46,600, “12-13 Office of the Vice President for Research (OVPR) Bridge Funding: The Role of Set1-Mediated Methylation in Chromatin Function.”

**Broden, Thomas F;** IDIS Program — philosophy and literature, from Purdue University, \$17,608, “Language and Attribution: Women and Identity.”

**Brown Vega, Margaret Y;** anthropology — Fort Wayne campus, from National Science Foundation, \$70,341, “The Chronology of Warfare in the Huaura Valley, Central Coast of Peru.”

**Buckius, Richard O;** Vice President for Research, from Purdue University, \$17,608, “1314 XR Research Grant: Indiana University Purdue University at Indianapolis (IUPUI) - Science, Dr. Rajeev Raje (Co-PI Dr. Mihran Tuceryan), Computer and Information Science a Distributed Framework for Indoor Location Tracking.”

**Buckius, Richard O;** Vice President for Research, from Purdue University, \$17,608, “1314 XR Research Grant: Indiana University Purdue University at Indianapolis (IUPUI) - Engineering/Technology, Dr. Du, Ece Pedestrian Visual Clutter Analysis Using Naturalistic Driving Data.”

**Buhman, Kimberly K;** foods & nutrition, from Purdue University, \$17,608, “Mechanism of Dietary Fat Absorption in Obesity and Type 2 Diabetes.”

**Bullock, Darcy M;** civil engineering, from Sensys Networks Inc, \$15,000, “Bullock Voluntary Support Acct.”

**Bullock, Darcy M;** civil engineering, from Indiana Department of Transportation, \$578,071, “Joint Transportation Research Program (JTRP) Administrative Budget for FY 2014.”

**Burdick, Steven J;** curriculum & instruction, from Purdue University, \$17,608, “Exploring Local Pedagogies of Science in Rural Latino Communities.”

**Burke, Sarah J;** field extension educators, from Hancock County Community Foundation, \$1,250, “Kindergarten 101.”

**Camberato, James J;** agronomy, from Multi-Sponsored Industrials, \$1,500, “Multi-Sponsored.”

**Campanella, Osvaldo H;** agricultural & biological engineering, from Blume Distillation, LLC, \$7,000, “Multi-Sponsored Gift Account.”

**Campanella, Osvaldo H;** agricultural & biological engineering, from Blume Distillation, LLC, \$7,000, “Multi-Sponsored Gift Account.”

**Campbell, Noll L and Weber, Zachary A;** pharmacy practice, from Regenstrief Institute for Health Care, \$59,355, “Development and Feasibility of a Medication Adherence Protocol for Older Adults with Mild Cognitive Impairment.”

**Cannon, Jason R and Rochet, Jean-Christophe;** health sciences, medicinal chemistry & molecular pharmacology, from Showalter Trust, \$75,000, “Mechanisms of PhIP-Mediated Neurotoxicity and Relevance to Parkinsons Disease.”

**Casteel, Shaun N;** agronomy, from Agricultural Research Service, \$55,494, “New Modes of Wheat Resistance Against Hessian Fly.”

**Casteel, Shaun N;** agronomy, from Monsanto Company, \$6,000, “Saved Soybean Seed: Genetics.”

**Catlin, Ann C;** academic technologies, from Foundation for Thymic Cancer Research, \$22,672, “Interactive International Thymic Malignancy Interest Group (ITMIG) International Prospective and Retrospective Databases.”

**Chang, Chun-Ju; Irudayaraj, Joseph M and Thompson, David H;** basic medical science, agricultural & biological engineering, chemistry, from Showalter Trust, \$75,000, “Noninvasive Imaging of miR-200c as a Biomarker for Early Detection of Aggressive Breast Cancer.”

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$1,000, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$500, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$500, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$500, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$2,500, "Voluntary Support — Ext. Activities."

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$500, "Voluntary Support — Ext. Activities."

**Chapman, Robert N;** forestry & natural resources, from Wildlife Society, Indiana Chapter, \$300, "Voluntary Support — Ext. Activities."

**Chapple, Clint C;** biochemistry, from Ross Graduate Fellowship-Assistantship, \$17,556, "Sorlien, Erin Lajla."

**Chapple, Clint C;** biochemistry, from Ross Graduate Fellowship-Assistantship, \$17,556, "Balduf, Hunter Thomas."

**Chapple, Clint C;** biochemistry, from U.S. Department of Energy, \$144,213, "Phenylpropanoid Metabolism in Arabidopsis: The Role of REF4; Modification 6 for Grant 102711."

**Chen, Weinong W;** aeronautical & astronautical engineering, from Office of Naval Research, \$40,000, "Ballistic Energy Dissipation through the Failure of Dyneema; Modification 3 for Grant 105401."

**Chen, Weinong W;** aeronautical & astronautical engineering, from Corvid Technologies, \$15,000, "High Strain Rate Characterization of Hybrid III Adaptive Trajectory Design (ATD) and Military Boot Polymer Materials, TASK 2."

**Chen, Weinong W;** aeronautical & astronautical engineering, from University of Delaware, \$56,456, "Materials in Extreme Dynamic Environments (MEDE) Collaborative Research Alliance."

**Chen, Yong P;** physics, from National Institute of Standards & Technology, \$127,145, "Quantum Electronic Metrology in Graphene Nanostructures; Amendment 1." (a Discovery Park award — Birck Nanotechnology Center)

**Chen, Zhihong;** electrical & computer engineering, from National Science Foundation, \$100,000, "Grant Opportunities for Academic Liaison with Industry (GOALI): Creating Novel Graphene-Based Meta-Materials through Nano-Patterning-Grant 105982."

**Cheng, Gary J and Ruan, Xiulin;** industrial engineering, mechanical engineering, from Office of Naval Research, \$168,391, "2D Line Laser for Scalable Sintering and Crystallization of Multifunctional Nanocomposites and Nanostructures."

**Cheng, Ji-Xin;** biomedical engineering, from Howard Hughes Medical Institute, \$49,965, "Label-Free Imaging of Membrane Potential via Stimulated Raman Scattering."

**Cheng, Ji-Xin;** biomedical engineering, from Trask Trust Fund, \$50,000, "Fast Spectroscopic Imaging by Parallel-Detection of Stimulated Raman Scattering."

**Chmielewski, Jean A;** chemistry, from Purdue University, \$17,608, "Targeting Intracellular Pathogenic Bacteria with Unnatural Proline-Rich Peptides: Coupling Antibacterial Activity with Macrophage Penetration."

**Choi, Jong Hyun;** mechanical engineering, from National Science Foundation, \$10,000, "Research Experience for Undergraduates (REU) Supplement: Faculty Early Career Development (CAREER): Understanding Biomolecular Manufacturing and Assembly of Nanocrystals - Fundamentals and Novel Properties for Solar Energy Harvesting (1055866)." (a Discovery Park award — Bindley Bioscience Center)

**Choi, Jong Hyun and Mao, Chengde;** mechanical engineering, chemistry, from Office of Naval Research, \$54,015, "Photo-Regulated DNA Nanomotors that Walk Along a Single-Walled Carbon Nanotube; Modification 6 for Grant 105330."

**Christ, Sharon L;** child development & family studies, from Purdue University, \$17,608, "Evaluating Maltreatment Effects on Adolescent Well-Being Using Advanced Modeling."

**Christian, John A;** comparative pathobiology, from Wyeth Ayerst Pharmaceuticals, \$800, "Cytology Resource Center."

**Clark, Ann M;** political science, from Purdue University, \$17,608, "Bypassing Democracy: Why Domestic Human Rights Non-governmental Organizations (NGOs) in Stable Democracies Appeal to International Forums."

**Constable, Peter D;** veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$5,400, "Emergency/Critical Care (ECC) Residency Training Program."

**Constable, Peter D;** veterinary clinical science, from VCA Antech Inc, \$9,630, "Radiology Residency Support."

**Cooks, Robert G and Ouyang, Zheng;** chemistry, biomedical engineering, from Biomerieux, Inc., \$128,869, "Paper Spray Mass Spectrometry: A New Platform Technology Rapid Trace Chemical Analysis."

**Cooks, Robert G;** chemistry, from Creare Incorporated, \$50,000, "Amendment No. 1 to Subcontract 64253- Grant 105940."

**Cooks, Robert G;** chemistry, from National Science Foundation, \$450,000, "Ionic Reactions in Droplets and Thin Films for Preparative and Analytical Mass Spectrometry." (a Discovery Park award — Bindley Bioscience Center)

**Cooks, Robert G;** chemistry, from Multi-Sponsored Industrials, \$2,000, "Unrestricted Multi-Sponsor Voluntary Support."

**Cooks, Robert G;** chemistry, from Purdue University, \$17,608, "Accelerated Chemical Reactions in Confined Volumes."

**Crist, Scott A and Briggs, Scott D;** Cancer Research Center, from Purdue University, \$10,000, "A New Way to Control Cholesterol Accumulation in Prostate Cancer."

**Crossley, William A;** aeronautical & astronautical engineering, from Rolls-Royce Corporation, \$3,500, "Design Optimization and Uncertainty Quantification for Aeromechanics Forced Response of a Turbomachinery Blade."

**Curtis, Susan;** American Studies, from Purdue University, \$17,608, "Becoming the Boss: Elizabeth Zimmermann and the Emergence of Knitting as Agency in the Late Twentieth Century."

**Cushman, Mark S;** medicinal chemistry & molecular pharmacology, from Purdue University, \$17,608, "Design and Synthesis of Norendoxifen Analogs with Dural Aromatase Inhibitory Activity and Estrogen Receptor Modulation Activity."

**Cushman, Mark S;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$210,445, "Novel Topoisomerase I Inhibitors."

**Dai, Mingji;** chemistry, from Showalter Trust, \$75,000, "Targeting Cancer with Natural and Synthetic Hydropyran/Hydrofuran-Containing Macrolides."

**Dai, Mingji;** chemistry, from Purdue University, \$17,608, "Synthesis of Biologically Active Hydropyran/Hydrofuran-Containing Macrolides."

**Dai, Mingji;** chemistry, from Oak Ridge Associated Universities, \$5,000, "Synthesis and Cellular Evaluation of Small Molecules with Neurotrophic Activity."

**Davies, Patricia;** mechanical engineering, from Institute for Noise Control Engineering, \$500, "2013 Noise Control Project."



**De Hoop, Maarten V**; mathematics, from Multi-Sponsored Industrials, \$500, “Geo-Mathematical Imaging Group (GMIG) Consortium.”

**Deboer, Lawrence P**; agricultural economics, from Indiana Legislative Services Agency, \$40,073, “Continuing Work with the Indiana Legislative Service Agency.”

**Deering, Amanda J**; food science, from Multi-Sponsored Industrials, \$1,000, “Multi-Sponsored Gift Funds.”

**Deering, Amanda J**; food science, from Dole, \$50,000, “Multi-Sponsored Gift Account.”

**Delgass, W N**; **Abu-Omar, Mahdi M**; **Caruthers, James M**; **Ribeiro, Fabio H** and **Thomson, Kendall T**; engineering administration engineering experiment, chemistry, chemical engineering, from U.S. Department of Energy, \$700,000, “Catalyst Design by Discovery Informatics; Modification 10 for Grant 104173.” (a Discovery Park award — Energy Center)

**DeWoody, J. Andrew**; forestry & natural resources, from Purdue University, \$17,608, “Determinants of Genetic Diversity and its Maintenance in Captive Animal Populations.”

**Dimmett, Larry J**; field extension educators, from Spencer County Substance Abuse Council, \$600, “Project Lead.”

**Dineen, Brian R**; management, from Society-Human Resource Management Foundation, \$25,594, “Best Places to Work: How Making the List Impacts the Strength and Sustainability of Subsequent Recruitment and Turnover Outcomes.”

**Doerge, Rebecca W**; statistics, from Winifred B. Bilsland Endowment, \$16,425, “Zhu, Jingyl.”

**Doerge, Rebecca W**; statistics, from George Washington Carver Fellowship, \$21,425, “Harry, April J.”

**Doerge, Rebecca W**; statistics, from Purdue Doctoral Program, \$26,580, “Gonzalez, Tracy.”

**Doerge, Rebecca W**; statistics, from Winifred B. Bilsland Endowment, \$3,000, “Zhu, Jingyl.”

**Dong, Suchuan**; mathematics, from Office of Naval Research, \$31,820, “Wall-Bounded Turbulence in the Presence of Liquid-Gas Interface: A Phase Field-Based Method; Modification 6 for Grant 105030.”

**Dotterer, Aryn M**; child development & family studies, from Purdue University, \$17,608, “Investigating the Role of Parental Involvement During Emerging Adulthood: Trajectories and Associations with Academic Success, Well-Being and Individuation.”

**Draper, Paul R**; philosophy, from Purdue University, \$17,608, “On the Consequences of Skeptical Theism.”

**Dukes, Jeffrey S**; biological sciences, from Purdue University, \$17,608, “Developing Plant-Functional-Type-Specific Parameterizations for Acclimation in Earth System Models.”

**Dukes, Jeffrey S**; forestry & natural resources, from National Science Foundation, \$19,903, “Dissertation Research: Acclimation of Photosynthesis and Respiration to Temperature Under Climate Change: Understanding Variation Among Species and Biomes to Improve Climate Models.” (a Discovery Park award — Purdue Climate Change Research Center)

**Dukes, Jeffrey S**; forestry & natural resources, from National Science Foundation, \$1,661, “Collaborative Research: Characterizing Climate-Induced Qualitative Changes in Plant Biopolymer Composition and Their Influence on Soil Processes-Grant 105866.” (a Discovery Park award — Purdue Climate Change Research Center)

**Dunning, John B**; forestry & natural resources, from U.S. Forest Service, \$18,140, “Breeding Bird Surveys on the Hoosier National Forest, 2013.”

**Dydak, Ulrike**; health sciences, from Purdue University, \$17,608, “GABA MR Spectroscopy as a Potential Biomarker for Parkinson Disease.”

**Dydak, Ulrike**; health sciences, from Indiana University, \$30,220, “Support for Dr. Dydak at IU Department of Radiology.”

**Ebert, David S** and **Elmqvist, Lars Niklas E**; electrical & computer engineering, from Morgan State University, \$25,000, “Morgan State Summer Education Program.” (a Discovery Park award — Discovery Park Administration)

**Egel, Daniel S**; botany & plant pathology, from E. I. du Pont de Nemours and Company, \$2,000, “Potassium Management.”

**Eigenmann, Rudolf**; electrical & computer engineering, from National Science Foundation, \$215,620, “Intergovernmental Personnel Assignment (IPA) for Rudolf Eigenmann.”

**Ejeta, Gebisa**; agronomy, from International Maize & Wheat Improvement Center, \$970,000, “U.S. Borlaug Fellows in Global Food Security: A FTF 21st Century Borlaug Leadership Program.”

**Emery, Nancy C**; biological sciences, from Purdue University, \$17,608, “Variation in Dispersal Propensity: Implications for Gene Flow and Habitat Adaptation.”

**Emery, Nancy C**; biological sciences, from Society for Integrative and Comparative Biology, \$800, “Emery Student Voluntary Support.”

**Engel, Bernard A**; agricultural & biological engineering, from Agricultural Research Service, \$25,925, “Effects of Climate Change on Sediment and Chemical Losses Under Agricultural and Forest Management Scenarios.”

**Engelberth, Abigail S**; agricultural & biological engineering, from Indiana Corn Marketing Council, \$42,650, “Recovery and Purification of Lutein and Zeaxanthin from Dry Distillers Grains with Solubles (DDGS).”

**Fanjoy, Richard O**; aviation technology, from Bilsland, Winifred B. Endowment, \$3,237, “Kirschner, Jennifer E.”

**Ferris, Virginia R**; entomology, from Indiana Crop Improvement Association, \$14,000, “Cyst Nematode Program.”

**Ferris, Virginia R**; entomology, from Indiana Crop Improvement Association, \$16,000, “Cyst Nematode Program.”

**Ferruzzi, Mario**; food science, from MH Zeigler & Sons LLC, \$150, “Multi-Sponsored for On-Going Research.”

**Ferruzzi, Mario**; **Bugusu, Betty A** and **Hamaker, Bruce R**; food science, from Virginia Technology, \$50,000, “Development and Assessment of a Fortified Instant Cereal Product for Senegalese Market.”

**Ferruzzi, Mario**; food science, from Purdue Doctoral Program, \$17,556, “Allen, Jennifer L.”

**Ferruzzi, Mario**; food science, from MH Zeigler & Sons LLC, \$1,500, “Multi-Sponsored for On-Going Research.”

**Field, William E**; agricultural & biological engineering, from Kossuth Street Baptist Church, \$250, “Breaking New Ground.”

**Flesch, Lucy M**; earth & atmospheric sciences, from National Science Foundation, \$76,075, “Collaborative Research: Exploring Extensional Tectonics Beyond the Ethiopian Rift-Grant 105525 Increase.”

**Flores, Joseph I**; Education Opportunities Program — Calumet Campus, from Indiana Department of Education, \$7,837, “Purdue University Upward Bound Summer Food Service Program 213.”

**Francis, Alexander L;** linguistics, from Purdue University, \$17,608, “The Relationship Between Fluency, Intelligibility and Acceptability in Non-Native Spoken English.”

**Frankenberger, Jane R;** agricultural & biological engineering, from University of Wisconsin-Madison, \$20,000, “Regional Water Quality Leadership Phase 3.”

**Friedman, Elliot M; Mroczek, Daniel K and Christ, Sharon L;** child development & family studies, from PHS-NIH National Institute on Aging, \$243,075, “Living Well with Later Life Multimorbidity: A Biopsychosocial Approach.”

**Gabrielov, Andrei and Basu, Saugata;** mathematics, from National Science Foundation, \$100,000, “Semi-Monotone Sets and Triangulation of Definable Families; Amendment 1 for Grant 106069.”

**Garimella, Suresh V;** mechanical engineering, from Multi-Sponsored Industrials, \$30,000, “Cooling Technologies Research (CTRC) 2012-2013 Membership - Memo Match for 106029.”

**Garimella, Suresh V;** global affairs, from Global Policy Res Institute Fellow, \$12,000, “Global Policy Research Institutes (GPRI) 2013 Graduate Student Research Fellowship - Katie Cahill.”

**Garimella, Suresh V;** global affairs, from Global Policy Res Institute Fellow, \$12,000, “Global Policy Research Institutes (GPRI) 2013 Graduate Student Research Fellowship - Emre Gencer.”

**Garimella, Suresh V;** mechanical engineering, from Multi-Sponsored Industrials, \$30,000, “Cooling Technologies Research (CTRC) 2012-2013 Membership - Memo Match for 106029.”

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

**Garimella, Suresh V; Janes, David B; Peroulis, Dimitrios and Weibel, Justin A;** mechanical engineering, electrical & computer engineering, from Defense Advanced Research Projects Agency, \$295,085, “Micro-cooling for Intensely Concentrated Electronics (MicroICE) an Intrachip Approach; Modification 1 for Grant 106438.”

**Garrison, James L;** aeronautical & astronautical engineering, from University of Michigan, \$103,721, “Cyclone Global Navigation Satellite System (CYGNSS); Amendment 2.”

**Garrison, James L;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$68,000, “Incorporation of Global Navigation Satellite System (GNSS) Multipath to Improve Autonomous Rendezvous, Docking, and Proximity Operations in Space NSTRF for Benjamin Ashman.”

**Geahlen, Robert L;** pharmacy administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$13,371, “Tyrosine Kinases and Lymphocyte Activation (Grant 105903) Revision to 5r01ai098132-30.”

**Gelvin, Stanton B and Lee, Lan-Ying;** biological sciences, from Dow Agro Sciences, \$60,577, “Manipulation of a Maize Myb Transcription Factor Gene to Increase Transformation.”

**Gerber, Corey K;** agronomy, from Multi-Sponsored Industrials, \$4,950, “Crop Diagnostic Training Center - Pioneer Hi-Bred International, Inc.”

**Gerber, Corey K;** agronomy, from Multi-Sponsored Industrials, \$1,100, “Crop Diagnostic Training Center - Becks Hybrids.”

**Gerber, Corey K;** agronomy, from Multi-Sponsored Industrials, \$5,500, “Crop Diagnostic Training Center - Indiana Certified Crop Advisor.”

**Gibbs, Richard A;** medicinal chemistry & molecular pharmacology, from Purdue University, \$50,000, “1213 Office of the Vice President for Research (OVPR) Bridge Funding: Inhibition of Prenylated Protein Processing.”

**Ginzel, Matthew D;** entomology, from Multi-Sponsored Industrials, \$2,184, “Multi-Sponsor.”

**Gleich, David F;** computer science, from Purdue University, \$17,608, “Searching for Structure within Simulations through a Low-Rank Clustering Measure.”

**Gleich, David F;** computer science, from National Science Foundation, \$53,357, “Supplement: Faculty Early Career Development (CAREER): Modern Numerical Matrix Methods for Network and Graph Computations.”

**Goforth, Reuben R;** forestry & natural resources, from U.S. Geological Survey, \$30,000, “Correlating Asian Carp eDNA and/or Microbial Tracking Technologies with Telemetry Data in the Wabash River.”

**Goldberg, David;** mathematics, from Simons Foundation, \$35,000, “R-Groups and L-Functions for Quasi-Split Groups, and Related Problems.”

**Golden, Barbara L;** biochemistry, from PHS-NIH National Institute of General Medical Science, \$19,605, “Coupling of Structure and Dynamics in RNA Catalysis - for Grant 105136.”

**Goldsbrough, Peter B;** botany & plant pathology, from Ross Graduate Fellowship-Assistantship, \$15,893, “McCorison, Cassandra B.”

**Gray, Jeffery L;** electrical & computer engineering, from U.S. Department of Energy, \$4,000, “Modeling of Ideal Wide Band Gap Photovoltaic Cells at Elevated Temperatures and High Concentration.”

**Gray, Nicholas W;** diversity and multicultural affairs - Fort Wayne campus, from Indiana Department of Education, \$16,473, “Indiana University-Purdue University Fort Wayne (IPFW) Office of Diversity and Multicultural Affairs Summer Food Service Program.”

**Greene, Christopher H;** physics, from National Science Foundation, \$50,000, “Collaborative Research: Few-Body Interactions in Ultracold Quantum Gases.”

**Haddad, Jeffrey M;** health & kinesiology, from Purdue University, \$17,608, “The Temporal Evolution of Dynamic Stability Throughout the Lifespan.”

**Haddock, John E and Seidel, Joseph C;** civil engineering, from Indiana Soybean Alliance, \$63,128, “Soybean-Based Products Combined with Pozzolans to Improve Gravel Road Stabilization.”

**Haddock, John E;** civil engineering, from Federal Highway Administration Office of, \$5,000, “2013 Dwight D Eisenhower Transportation Fellowship Program - Michael Ficcaglia.”

**Haddock, John E;** civil engineering, from Federal Highway Administration Office of, \$5,500, “2013 Dwight D Eisenhower Transportation Fellowship Program - Sergio Arambula.”

**Hamilton, Roy L;** Education Opportunities Program — Calumet Campus, from Indiana Department of Education, \$5,905, “Summer Food Service Program 2013.”

**Harbin, Sherry L and Han, Bumsoo;** basic medical science, mechanical engineering, from PHS-NIH National Heart, Lung and Blood Institute, \$360,401, “Collagen Cross-Links Direct Matrix-Induced Vasculogenesis via Tunable Pathways.”

**Harbor, Jonathan M;** earth & atmospheric sciences, from Purdue University, \$17,608, “Paleoglacioclimate of the Mongolian Altai.”

**Harrison, Marietta L**; medicinal chemistry & molecular pharmacology, from Indiana University, \$93,000, “Warfighter Cancer Care Engineering.” (a Discovery Park award — Oncological Sciences Center)

**Hartman, Nathan W**; computer graphics technology, from General Motors Foundation, \$15,000, “Product Lifecycle Management Center of Excellence (PLM).”

**Hassanein, Ahmed**; nuclear engineering, from U.S. Department of Energy, \$165,000, “Impact of Disruptions and Elms on Liquid Lithium Surfaces in National Spherical Torus Experiment (NSTX) and Mitigation/Extrapolation; Modification 5 for Grant 103137.”

**Heeg, Marlene O**; pharmacy - administration, from Takeda Pharmaceutical International Inc US Region, \$30,000, “2013 Rome Update from DDW.”

**Heeg, Marlene O**; pharmacy - administration, from Takeda Pharmaceutical International Inc US Region, \$30,000, “2013 Rome Update from DDW.”

**Heeg, Marlene O**; pharmacy - administration, from Takeda Pharmaceutical International Inc US Region, \$30,000, “2013 Rome Update from DDW.”

**Heeg, Marlene O**; pharmacy - administration, from Emd Serono Inc, \$75,000, “Managing Treatment-Related Adverse Effects and Maintaining Adherence to Injectable Disease-Modifying Therapies: The Emerging Role of the Specialty Pharmacist.”

**Heeg, Marlene O**; pharmacy - administration, from Emd Serono Inc, \$139,810, “Practical Considerations for the Treatment of Multiple Sclerosis: a Clinical Primer for the Managed Care Professional.”

**Heeg, Marlene O**; pharmacy - administration, from Sunovion Pharmaceuticals Inc, \$330,350, “PeerView Live, Optimizing Early Recognition, Diagnosis and Management of Bipolar Depression in the Primary Care Setting.”

**Hertel, Thomas W**; agricultural economics, from Multi-Sponsored Industrials, \$19,650, “Global Trade Analysis Project (GTAP) Consortium.”

**Hertel, Thomas W**; agricultural economics, from Multi-Sponsored Industrials, \$39,300, “Global Trade Analysis Project (GTAP) Consortium.”

**Hertel, Thomas W and Villoria, Nelson B**; agricultural economics, from Agricultural Research Service, \$85,327, “GEOSHARE-DEFRA.”

**Hertel, Thomas W**; agricultural economics, from Multi-Sponsored Industrials, \$19,650, “Global Trade Analysis Project (GTAP) Consortium.”

**Hertig, John B**; pharmacy - administration, from Eli Lilly and Company, \$84,970, “Medication Safety Fellowship Lilly Portion.”

**Hill, Catherine A; Meyer, Jason M and Hunt, Greg J**; entomology, from University of Notre Dame, \$286,696, “RAD Sequencing of SNPs on the Ixodes Scapularis Lyme Disease Tick Genome: Toward an Integrated Genetic and Physical Map; Modification 2.”

**Hoffman, Aaron M**; political science, from Purdue University, \$17,608, “State Based Financial Liberalization.”

**Hong, Wei**; foreign language & literature, from Chinese Language Council International, \$194,652, “Confucius Institute at Purdue (2013 Funding).”

**Hook, Tomas O**; Illinois-Indiana Sea Grant Program, from Illinois Cooperative Extension Service, \$43,763, “Agreement Between Purdue University and Illinois Cooperative Extension Service, University of Illinois.”

**Hook, Tomas O**; forestry & natural resources, from David M. Knox Endowment, \$19,477, “Almeida, Leah Zoe.”

**Howe, Katherine M**; botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

**Howe, Katherine M**; botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

**Howe, Katherine M**; botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

**Howe, Katherine M**; botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

**Howe, Katherine M**; Purdue Memorial Union, from Multi-Sponsored Industrials, \$100, “Katherine Howe Gift Fund.”

**Howell, Kathleen**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$68,000, “A Hybrid Systems Strategy to Support Autonomous Spacecraft Trajectory Design and Optimization in Multiple Dynamical Regimes Fellowship by Jeffery Stuart.”

**Howell, Kathleen**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$17,000, “Targeting, Guidance and Proximity Operations Near Small Bodies and Complex Multi-Body Regimes.”

**Hrycyna, Christine A**; chemistry, from Purdue University, \$17,608, “Molecular Dissection of the Mechanism of The Human ZMPSTE24 Protease Connected to Premature Aging Diseases.”

**Hrycyna, Christine A; Davidson, Amy L and Paul, Lake N**; chemistry, biological sciences, from PHS-NIH National Institute of General Medical Science, \$277,127, “Structure, Function and Conformational Dynamics of the Ste14p Methyltransferase.”

**Hu, Y Charlie and Midkiff, Samuel P**; electrical & computer engineering, from National Science Foundation, \$499,978, “Software and Hardware Foundations (SHF): Small: Compiler and Runtime Analysis for Treating Smartphone Energy Bugs.”

**Hudson, Karen A**; agronomy, from Agricultural Research Service, \$19,470, “Acquisition of Goods and Services.”

**Hunt, Molly H**; field extension educators, from Blackford County Community Foundation, Inc., \$3,112, “First Books for Kids.”

**Irazoqui, Pedro**; biomedical engineering, from Jackson Laboratory, the, \$250,000, “Novel Implantable Devices for Glaucoma Research.”

**Ivantysynova, Monika**; agricultural & biological engineering, from Multi-Sponsored Industrials, \$12,000, “Kalamazoo Community Foundation.”

**Janick, Jules**; horticulture & landscape architecture, from Goldman Foundation, Amy P, \$10,000, “New Gift Account for Dr. Janick.”

**Jenkins, Michael A**; forestry & natural resources, from Purdue University, \$17,608, “Spatial Dynamics of Amur Honeysuckle (*Lonicera Maaackii*) Invasion and its Ecological Impacts on Biotic Communities.”

**Jenkins, Michael A**; forestry & natural resources, from U.S. Forest Service, \$10,549, “The Response of Oak Seedling Regeneration to Harvesting, Herbicide Treatments, and Burning.”

**Jiao, Dan**; electrical & computer engineering, from Semiconductor Research Corporation, \$89,800, “Direct Matrix Solutions of Linear Complexity for Rapid Modeling and Design of High Bandwidth Package Interconnects; Modification 3.”

**Jing, Peng**; chemistry — Fort Wayne campus, from Indiana Academy of Science, \$3,000, “A Study on DNA Transport Property of the Phi29 Mutant Connectors.”



**Johnson, Chrystal S;** curriculum & instruction, from Purdue University, \$17,608, "Amanda: Exploring Race, Social Media Use and Civic Engagement Among Urban Black Youth."

**Johnson, William G;** botany & plant pathology, from DuPont Crop Protection, \$10,000, "Weed Research."

**Johnson, William G;** botany & plant pathology, from DuPont Crop Protection, \$27,550, "Weed Research."

**Jones, Owen G;** food science, from Purdue University, \$17,608, "Colloidal Characterization of Modified Polysaccharides with Whey Proteins."

**Kak, Avinash C and Park, Johnny;** electrical & computer engineering, from Applied Research Associates, Inc, \$151,680, "IARPA Finder; Modification No. 2 to Grant 105861 (ARA S-001460.00000.PDU)."

**Kak, Avinash C;** electrical & computer engineering, from Applied Research Associates, Inc, \$151,680, "Mod. No. 1 to Grant 105861 (ARA S-001460.00000.PDU)."

**Kappock, Thomas J and Tran, Elizabeth;** biochemistry, from Showalter Trust, \$75,000, "Tracking an Iron-Sulfur Cluster through the Cytoplasm through a Novel Yeast Metabolic Screen."

**Karpicke, Jeffrey D;** psychological science, from Purdue University, \$17,608, "Retrieval Based Learning: Exploring the Role of Retrieval Strategies."

**Kaufmann, Erika B;** mathematics, from National Science Foundation, \$72,766, "Faculty Early Career Development (CAREER): Physical Properties of New Materials via Mathematics -- Methods and Applications."

**Keener, Kevin M;** food science, from Griffith Laboratories, \$1,500, "Multi-Sponsored Gift."

**Kelly, Brian C;** anthropology, from Purdue University, \$17,608, "Creating Collective Spaces: Hip Hop and Youth in Urban Peru."

**Kelly, Brian C;** sociology, from PHS-NIH National Institute on Drug Abuse, \$0, "Prescription Drug Abuse in Club Subcultures: Contexts and Risks."

**Kenney, Rachael H;** mathematics, from Purdue University, \$17,608, "Preservice Mathematics Teachers Cognitive Development of Proof and Proving Skills: Investigation of an Undergraduate Geometry Class."

**Kenttamaa, Hilkka I;** chemistry, from ConocoPhillips, \$50,000, "Purdue and ConocoPhillips Characterization of Oil Samples."

**Kenttamaa, Hilkka I;** chemistry, from AstraZeneca Pharmaceuticals LP, \$40,000, "Use of Novel Gas Phase Ion-Molecule Reactions to Characterize the Metabolism on Heteroatoms and the Reactivity of Electrophilic Groups."

**Killion, Vicki J; Bracke, Marianne S; Glasson, Patricia A and Morris, Sammie L;** library administration, from U.S. Agricultural Information Network, \$3,125, "Digitization of Purdue Agricultural Extension Publications (1910-1922)."

**Kinzig, Kimberly P;** psychological science, from Purdue University, \$17,608, "Dietary Macronutrient Influences on Brain Barrier Integrity, Neurovascular Pathology and Behavior."

**Kirkpatrick, Jane M; Aaltonen, Pamela M; Coddington, Jennifer A; Davis, Jan E and Oneil, Elizabeth A;** nursing, from PHS-NIH National Center for Health Resources and Services Administration, \$538,125, "North Central Nursing Clinics (NCNC) - for Grant 105206."

**Kirshner, Julia;** biological sciences, from Purdue University, \$17,608, "Role of Cancer Cells and Microtubule-Associated Protein Tau in Breast Cancer Metastasis to the Bone."

**Klimeck, Gerhard;** electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$5,356, "Charles, James A."

**Klimeck, Gerhard;** electrical & computer engineering, from Purdue University, \$1,415,246, "iCHEER: Institute for Continual Hub Enabled Education and Research, Office of the Vice President for Research (OVPR) Commitment." (a Discovery Park award — Network for Computational Nanotechnology)

**Klimeck, Gerhard;** electrical & computer engineering, from Purdue University, \$697,751, "CPMSD: Center for Predictive Materials and System Design (Office of the Vice President for Research (OVPR) 5 Year Commitment)." (a Discovery Park award — Network for Computational Nanotechnology)

**Kluender, Keith R;** speech, language and hearing sciences, from David M. Knox Endowment, \$19,394, "DSouza, Hanna."

**Kluender, Keith R;** speech, language and hearing sciences, from David M. Knox Endowment, \$19,394, "Benham, Sara."

**Knoeller, Christian P;** English, from Purdue University, \$17,608, "Toward a Genre Writing Curriculum: Schooling Genres in the Common Core State Standards for Writing."

**Kossek, Ellen E;** management, from Portland State University, \$15,400, "Evaluating the Health Benefits of Workplace Policies and Practices: Phase II."

**Kuang, Shihuan;** animal sciences, from J and G Food Services LLC, \$1,500, "Molecular Dynamics (MD) Research."

**Kuhn, Richard J;** biological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,975, "2013 GS SRG - BIOS."

**Kulkarni, Milind;** electrical & computer engineering, from U.S. Department of Energy, \$150,000, "Compiler and Run-Time Approaches to Enable Large Scale Irregular Programs."

**Labi, Samuel and Sinha, Kumares C;** civil engineering, from Indiana Department of Transportation, \$350,000, "Impact of HB-1481 on Indianas Highway Revenue Generation, Asset Degradation, Modal Distribution, and Economic Development and Competitiveness."

**Lang, Rafael F;** physics, from Purdue University, \$17,608, "Search for Dark Matter with XENON100 and XENON1T."

**Laux, Chad;** industrial technology, from Purdue University, \$17,608, "Quality Management for Food Defence and Safety."

**Lee, Linda S;** agronomy, from Purdue University, \$17,608, "Fate and Biological Accessibility of Bisphenol A, AF and S by the Land Application of Biosolid."

**Lehto, Xinran Y;** hospitality & tourism, from Purdue University, \$17,608, "The Sociability of Travel: Understanding Family Interaction During Vacation."

**Lelievre, Sophie A;** basic medical science, from Purdue University, \$17,608, "Characterization and Functional Study of CDSI Promoter in Breast Cancer Initiation and Progression."

**Lelievre, Sophie A;** basic medical science, from National Institutes of Health, \$22,000, "High-Throughput Human Cell-Based Models for Primary Prevention of Breast Cancer."

**Lempert, Laszlo;** mathematics, from Winifred B. Bilsland Endowment, \$16,425, "Lee, Byeongho."

**Leonard, Laurence B;** speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$197,488, "Communicative Disorders."

**Leonard, Laurence B and Deevy, Patricia L;** speech, language and hearing sciences, from National Institutes of Health, \$183,750, "Sensitivity to Morphological Cues in Children with Specific Language Impairment."

**Leonard, Laurence B and Deevy, Patricia L;** speech, language and hearing sciences, from National Institutes of Health, \$8,750, "Sensitivity to Morphological Cues in Children with Specific Language Impairment-Grant 106567 INC."

**Leung, Yuk Fai;** biological sciences, from City University of Hong Kong, \$5,129, "Dynamics of Zebrafish Behavioral Responses to Visual Stimuli."

**Levine, Michael;** statistics, from National Science Foundation, \$30,255, "Collaborative Research: Estimation, Inference, and Computation for Finite Nonparametric Mixtures; Amendment 1 for Grant 106097."

**Lewis, Dwight E;** graduate school administration, from National Action Council Minorities Indiana Engineering, \$6,000, "To Increase the Number of Under-Represented Minority Doctorates in Chemistry at Purdue University."

**Li, Bo;** statistics, from Purdue University, \$17,608, "Nonparametric Estimation of Spatial Covariance Function."

**Lin, Hui-Mei;** food science, from Multi-Sponsored Industrials, \$2,000, "Multi-Sponsored Gift."

**Liu, Chuanhai;** statistics, from National Science Foundation, \$81,575, "Collaborative Research: Efficient Parallel Iterative Monte Carlo Methods for Statistical Analysis of Big Data."

**Liu, Julie C and Wilker, Jonathan J;** chemical engineering, chemistry, from National Science Foundation, \$390,000, "Protein-Based Materials with Tunable Adhesive and Mechanical Properties."

**Liu, Julie C;** chemical engineering, from Bilsland, Winifred B. Endowment, \$2,616, "Su, Sheng-Chuan."

**Liu, Shuang;** health sciences, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$192,500, "Novel  $^{99m}\text{Tc}$ (III) Complexes as SPECT Radiotracers for MPI."

**Lopez, Roberto G;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$4,000, "Multi-Sponsored Gift Account."

**Lopez, Roberto G;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$7,200, "Multi-Sponsored Gift Account."

**Lopez, Roberto G;** horticulture & landscape architecture, from American Floral Endowment, \$250, "Floriculture Forum."

**Lopez, Roberto G;** horticulture & landscape architecture, from American Floral Endowment, \$500, "Floriculture Forum."

**Low, Philip S;** chemistry, from Hurvis, John Thomas & Julie Ann, \$65,000, "Multi - Sponsor Voluntary Support."

**Lowenberg-Deboer, James M and Baributsa, Dieudonne;** international programs in agriculture, from Catholic Relief Services, \$80,625, "Strengthening and Improving Value Chains (SIVAC)."

**Lumkes, John H;** agricultural & biological engineering, from Parker Hannifin Foundation, \$8,000, "Parker Laboratory Gift Account."

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

**Magana Deleon, Alejandra J;** computer & information technology, from Purdue University, \$17,608, "Investigating the Role of Computation for Conceptual Understanding and Problem Solving in Engineering and Computing Education."

**Malis, Oana and Manfra, Michael J;** physics, from National Science Foundation, \$130,165, "Global Strain-Free III-Nitride Heterostructures: Growth, Structure and Near-Infrared Optical Properties; Amendment 1 for Grant 105959." (a Discovery Park award — Birck Nanotechnology Center)

**Manfra, Michael J;** physics, from Office of Naval Research, \$20,000, "Fault-Tolerant Topological Quantum Computing with 2D Electron Systems; Modification 3 for Grant 106378." (a Discovery Park award — Birck Nanotechnology Center)

**Mao, Chengde;** chemistry, from Office of Naval Research, \$28,926, "Assembly of Complex DNA Nanostructures through Structural Transformation; Modification 7 for Grant 105323."

**Marsh, Dawn G;** history, from Purdue University, \$17,608, "Native Spaces, Settler Landscapes and the Culture of Manifest Destiny: Imagining the Ohio Country, 1701 - 1820."

**Marshall, Jordan M;** biology — Fort Wayne campus, from Indiana Academy of Science, \$1,105, "Diversity and Distribution of Herbaceous Plant Communities Related to Agricultural Forest Size, Shape, and Structure."

**Martinez, Carlos J; Youngblood, Jeffrey P and Sun, Chin-Teh;** materials engineering, aeronautical & astronautical engineering, from Defense Threat Reduction Agency, \$146,459, "Development of Acoustic Metamaterials with Anisotropic Mass Densities for Blast Wave Mitigation; Modification 2 for Grant 106047."

**Matson, Eric T; Brewer, Jeffrey L; Dittman, Kevin C and Smith, Anthony H;** computer & information technology, from Pohang University of Science & Technology, \$192,712, "POSTECH GEM Project Engineering and Management Summer School 2013."

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Sakata Seed America Inc., \$500, "Research for 1995 Vegetable Variety Trial Program."

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Sakata Seed America Inc., \$1,000, "Research for 1995 Vegetable Variety Trial Program."

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Sakata Seed America Inc., \$800, "Research for 1995 Vegetable Variety Trial Program."

**McCrary, Megan A;** foods & nutrition, from Purdue University, \$17,608, "Acute and Chronic Effects of Pulses and Macronutrient Composition on Appetite, Taste Preferences and Cardiometabolic Risk."

**McDonough, Meghan H;** health & kinesiology, from Purdue University, \$17,608, "The Effect of a Self-Determination Theory Based Interventoin on Leader Behaviors, Social Relationships and Psychosocial Outcomes in a Physical Activity-Based Positive Youth Development Program For..."

**McKee, Renee K;** youth development & agricultural education, from National 4-H Council, \$12,000, "2013 4-H Agricultural Science Commodity Carnival."

**McKinley, Steven K and Wynkoop, Ryan D;** youth development & agricultural education, from Department of the Army, \$44,825, "Indiana 2013 Operation Military Kids (OMK) Grant."

**Mengiste, Tesfaye D;** botany & plant pathology, from Rural Development Administration, \$63,000, "Mechanisms of Plant Immunity to Fungal and Bacterial Pathogens."

**Messick, Joanne B;** comparative pathobiology, from Morris Animal Foundation, \$4,000, "Development and Validation of a Multiplex Microbead Assay to Detect Antibodies Against Mycoplasma Haemofelis."



**Michalski, Greg M;** earth & atmospheric sciences, from Purdue University, \$17,608, "Using Stable Isotope to Understand Atmospheric Oxidation Chemistry in the Southern Hemisphere: Modeling Component."

**Midkiff, Samuel P;** electrical & computer engineering, from Huawei Technologies, \$45,000, "Huawei Vol Gift Support."

**Mintert, James R and Ballard, Roy W;** agriculture — administration, field extension educators, from University of Minnesota, \$17,250, "Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP) State Plan of Work 2013 Chapter 1."

**Mittal, Suresh K;** comparative pathobiology, from Embassy of the Arab Republic of Egypt, \$9,000, "Bench Fees - Mr. Omar Ahmed Kamal Amen."

**Morgan, Susan E;** communication, from Purdue University, \$17,608, "The Personal is Technical: Examining New Mothers Explanations for Vaccine Refusal."

**Mudawar, Issam;** mechanical engineering, from Zmola, Paul C. (Indiv. Donor), \$250, "To Support Heat Transfer Research."

**Murphy, Patrick T;** agricultural & biological engineering, from Multi-Sponsored Industrials, \$20,000, "Multi-Sponsored Gift."

**Murthy, Jayathi Y; Alam, Muhammad A; Bajaj, Anil K; Chen, Weinong W; Grama, Ananth Y; Peroulis, Dimitrios and Strachan, Alejandro H;** mechanical engineering, electrical & computer engineering, aeronautical & astronautical engineering, computer science, materials engineering, from U.S. Department of Energy, \$950,000, "Prediction of Reliability, Integrity, and Survivability of Microsystems (PRISM); Modification 13 for Grant 103080" (a Discovery Park award — Energy Center)

**Narsimhan, Ganesan and Bhunia, Arun K;** agricultural & biological engineering, food science, from Indiana Soybean Alliance, \$87,234, "Antimicrobial Peptides from Soyprotein."

**Negishi, Ei-Ichi;** chemistry, from Teijin Ltd, \$90,000, "Teijin Limited."

**Nennich, Tamilee D;** animal sciences, from Purdue University, \$17,608, "Evaluation of Various Concentrate Levels in Diets of Dairy Heifers to Improve Rumen Development & Feed Efficiency."

**Neu, Corey P;** biomedical engineering, from Trask Trust Fund, \$50,000, "Critical Advancement of a New Atomic Force Microscopy (AFM)/(NMR) Nuclear Magnetic Resonance Instrument."

**Neumeister, Norbert; Bortoletto, Daniela; Hacker, Thomas J and Shipsey, Ian P;** physics, computer & information technology, from Princeton University, \$214,804, "U.S. Compact Muon Solenoid (CMS) Operations at the Large Hadron Collider (LHC) Modification 3 Grant 105769."

**Nie, Huiling;** health sciences, from Purdue University, \$17,608, "Development and Validation of a Neutron Activation Analysis (NAA) System to Quantify Metals in Bone in Vivo."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$75, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$200, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$75, "Multi-Sponsored Gift Funds."

**Niyogi, Devdutta S; Biehle, Donald J and Scheeringa, Kenneth L;** agronomy, Southeast-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$15,000, "Maintenance and Improvement of Purdue Agricultural Centers Weather Station Network - 2013."

**Nolan, Riall W;** anthropology, from Purdue University, \$17,608, "Territory-Anchored Rights and Refugee Repatriation: Peuteccostalism and the Case of Liberian Refugee Returnees from Ghana."

**Norris, Meghan E;** consumer science & retail, from Purdue University, \$17,608, "Theoretical and Applied Explorations of Person-Thing Orientation as an Information Preprocessing Biasing Agent."

**Obergfell, Ann M;** health & human services — Fort Wayne campus, from Healthvisions Midwest, Inc, \$39,171, "Indiana University-Purdue University Fort Wayne (IPFW) K-12 Programming."

**Olek, Jan;** civil engineering, from Indiana Department of Transportation, \$180,000, "North Central Superpave Center SPR-2042."

**Oliver, Haley F;** food science, from Showalter Trust, \$75,000, "Transcriptional Regulator of Stress Survival and Virulence, oB, as a Potential Drug Target in Methicillin-Resistant Staphylococcus Aureus (MRSA)."

**Olson, Daniel V;** sociology, from Purdue University, \$17,608, "Gendered Resistance and Compliance in the LDS Church."

**Ouyang, Zheng and Cooks, Robert G;** engineering administration engineering experiment, chemistry, from PHS-NIH National Institute of General Medical Science, \$279,486, "Development of a Point-of-Care Mass Spectrometry Analysis System." (a Discovery Park award — Bindley Bioscience Center)

**Paarlberg, Philip L;** agricultural economics, from Texas A&M University, \$15,000, "Modeling Hypothetical HPAI Events."

**Parashar, Neeti;** chemistry and physics — Calumet Campus, from National Science Foundation, \$100,000, "Research in High Energy Physics on the Compact Muon Solenoid (CMS) Experiment-Grant 105956-Amendment 1."

**Park, Kinam; Couetil, Laurent L and Rundell, Ann E;** biomedical engineering, veterinary clinical science, from Showalter Trust, \$60,000, "Resolving Glucose Detection in Exhaled Breath Condensate."

**Park, Kinam;** biomedical engineering, from PHS-NIH National Institute of General Medical Science, \$18,908, "Hydrogel Template Method for Protein Microencapsulation."

**Parker, Laurie L;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$190,336, "Bio-sensor Technology to Monitor Leukemia-Related Kinase Activity in Patient Cells."

**Parker, Laurie L and Irudayaraj, Joseph M;** medicinal chemistry & molecular pharmacology, agricultural & biological engineering, from PHS-NIH National Cancer Institute, \$235,412, "Label-Free, Real-Time Detection of Kinase Activity in Vitro and in Single Cells Using Surface-Enhanced Raman Spectroscopy (SERS)."

**Pastakia, Sonak D and Karwa, Rakhi;** pharmacy practice, from Indiana University, \$6,255, "Ampath Plus."

**Patrick, Helen;** educational studies, from Purdue University, \$17,608, "Evaluating Effective Teaching Across Content Areas."

**Patton, Aaron J**; agronomy, from Dow Agro Sciences, \$6,000, “Multi-Sponsored.”

**Patton, Aaron J**; agronomy, from Midwest Regional Turf Foundation, \$8,000, “Turf-grass Research.”

**Pelter, Libbie S**; chemistry and physics — Calumet Campus, from University of Nebraska-Lincoln, \$24,800, “Catalytic Asymmetric Hydroboration; Amendment 1.”

**Peroulis, Dimitrios**; electrical & computer engineering, from IMA Life, \$8,300, “IMA Life.” (a Discovery Park award — Birck Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from IMA Life, \$8,300, “IMA Life.” (a Discovery Park award — Birck Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from Flowserve Corp, \$7,000, “Flowserve.” (a Discovery Park award — Birck Nanotechnology Center)

**Peterson, Jonathon R**; mathematics, from National Security Agency, \$18,700, “Random Walks and Particle Systems in Random Environments.”

**Phillion, Joann I**; curriculum & instruction, from Purdue University, \$17,608, “Cultivating Multicultural Education in U.S. Islamic Schools.”

**Pijanowski, Bryan C**; forestry & natural resources, from U.S. Geological Survey, \$126,075, “Land Change Analysis and Modeling to Support the Multi-Scale Assessment of Land Use and Climate Change Impacts on the Nations Fish Habitat; Supplement 4.”

**Pitts, Yvonne M**; american studies, from Purdue University, \$17,608, “Maternalism, Economic Citizenship and Care in Expressions of a Solidarity Economy in El Paso, Texas.”

**Post, Carol B**; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$20,402, “Nuclear Magnetic Resonance (NMR) Structure of Peptide and Protein Complexes - for Grant 14635.”

**Post, Carol B**; medicinal chemistry & molecular pharmacology, from Purdue University, \$17,608, “Biophysical Studies of the Long-Distance Regulatory Mechanism of Spleen Tyrosine Kinase (Syk) Tandem Src homology 2 (SH2) Domains.”

**Pothen, Alex**; computer science, from Purdue University, \$17,608, “Analyzing Flow Cytometry Data with Computational Topology.”

**Pothen, Alex and Gebremedhin, Assefaw**; computer science, from U.S. Department of Energy, \$146,490, “Combinatorial Algorithms to Enable Scientific Computing on Multi-Threaded Architectures.”

**Pyrak-Nolte, Laura J**; physics, from U.S. Department of Energy, \$131,961, “The Physics of Swarms and Interfaces in Fractures: Functionalized Particles and Programmable Seismic Scatters; Modification 4.”

**Quagraine, Kwamena K**; agricultural economics, from University of California - Davis, \$19,988, “Comparative Study of Aquaculture Best Management Practices Adoption in Ghana and Kenya.”

**Raghunathan, Anand**; electrical & computer engineering, from NEC Laboratories America Inc, \$40,000, “NEC Heterogeneous Pipelining.”

**Rajwa, Bartlomiej P**; basic medical science, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$210,579, “Automated Spectral Data Transformations and Analysis Pipeline for High-Throughput Flow Cytometry.” (a Discovery Park award — Bindley Bioscience Center)

**Raman, Arvind; Haddad, Jeffrey M; Rietdyk, Shirley and Zelaznik, Howard N**; mechanical engineering, health & kinesiology, from National Science Foundation, \$550,392, “Nonlinear Dynamics and Bifurcations of Human Posture on Tunable Balance Boards.”

**Ramirez, Julio A**; civil engineering, from National Science Foundation, \$85,000, “Network for Earthquake Engineering Simulation (NEES) Operations: FY 2010-FY2014.”

**Ramirez, Julio A; Eigenmann, Rudolf; Brophy, Sean; Hacker, Thomas J; Dyke, Shirley J; Pujol, Santiago; Bagchi, Saurabh and Irfanoglu, Ayhan**; civil engineering, electrical & computer engineering, engineering education, computer & information technology, mechanical engineering, from National Science Foundation, \$3,700,000, “Network for Earthquake Engineering Simulation (NEES) Operations: FY 2010-FY2014; Modification 22 for Grant 104025.” (a Discovery Park award — Cyber Center)

**Rao, Sanjay G and Tawarmalani, Mohit**; electrical & computer engineering, management, from National Science Foundation, \$97,041, “Computer Systems Research (CSR): Medium: Collaborative Research: Architecting Performance Sensitive Applications for the Cloud; Amendment 1 for Grant 1 106094.”

**Ratliff, Timothy L**; Vice President for Research, from PHS-NIH National Cancer Institute, \$1,117,647, “Cancer Center Support Grant-Core.”

**Ratliff, Timothy L**; comparative pathobiology, from Purdue University, \$17,608, “The Impact of Inflammation on Postate Stem Cells.”

**Ren, Tong**; chemistry, from Purdue University, \$17,608, “Cylcam Complexes of Earth Abundant Metals as Catalysts for Carbon Dioxide Reduction.”

**Ribeiro, Fabio H**; chemical engineering, from U.S. Department of Energy, \$155,000, “Fundamental Studies on the Kinetics of Oxidation Reactions; Modification 11 for Grant 101801.”

**Richert, Brian T and Lay, Donald C**; animal sciences, from Agricultural Research Service, \$29,935, “Designer Diets Decrease Aggression and Increase Welfare.”

**Richert, Brian T**; animal sciences, from Agricultural Research Service, \$10,356, “Dietary Modification to Eliminate Ulcers in Sows.”

**Richtsmeier, Peter T; Goffman, Lisa A and Leonard, Laurence B**; speech, language and hearing science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$140,194, “Talker Variability in Typical and Language Impaired Childrens Language Learning.”

**Rickus, Jenna L**; agricultural & biological engineering, from Purdue University, \$50,000, “1213 Office of the Vice President for Research (OVPR) Bridge Funding: Immunoprotection of Human Islets B Biosilicification.”

**Rickus, Jenna L**; agricultural & biological engineering, from Purdue University, \$17,608, “Controlling the Nanoscale Architecture of Mesoporous Silica by Biological Templating at the Surface of Cells.”

**Rietdyk, Shirley**; health & kinesiology, from Purdue University, \$17,608, “Trip-Related Loss of Balance.”

**Rochet, Jean-Christophe**; medicinal chemistry & molecular pharmacology, from Purdue University, \$17,608, “Stabilizing Membrane-Bound Alpha Synuclein: a New Strategy for the Treatment of Parkinsons Disease.”

**Rokhinson, Leonid P**; physics, from U.S. Department of Energy, \$175,000, “Engineering Topological States of Matter and Search for Majorana Fermions; Modification 1 for Grant 106024.”

**Ross, Charles S;** comparative literature, from Purdue University, \$17,608, “Remember Me: Hamlet & the Latin American Revival of Tragedy.”

**Rossmann, Michael G;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$25,692, “Structural Studies of Togaviruses — Grant 105834.”

**Rossmann, Michael G and Kuhn, Richard J;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$546,793, “Structure and Function of Flaviviruses.”

**Rossmann, Michael G;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$23,220, “Structural Studies of Bacteriophage T4 — for Grant 104273.”

**Roy, Kaushik and Raghunathan, Anand;** electrical & computer engineering, from National Science Foundation, \$500,000, “Software and Hardware Foundations (SHF): Small: Ultra Low Power Neuromorphic Computing with Spin-Devices.”

**Roy, Kaushik;** electrical & computer engineering, from HRL Laboratories, LLC, \$55,295, “Unconventional Processing of Signals for Intelligent Data Exploitation (Upside).”

**Rundell, Ann E; Harbin, Sherry L; Irazoqui, Pedro; Panitch, Alyssa and Park, Kinam;** biomedical engineering, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$43,200, “A Multidisciplinary and Needs-Driven Approach to Translational Team-Based Biomedical Engineering Design.”

**Sadof, Clifford S;** entomology, from Animal Plant Health Inspection Service, \$14,088, “Forest Insect Taxonomic (FITS) Initiative for the USDA-APHIS-PPQ-CAPS Exotic Pest Detection Survey Program and the National Emerald Ash Borer.”

**Sadof, Clifford S;** entomology, from Animal Plant Health Inspection Service, \$10,000, “Enhanced Coordination of Education and Outreach Activities for the Indiana Invasive Species Council (IISC).”

**Saha, Shubin K;** horticulture & landscape architecture, from Teva Corporation, \$8,000, “Fertilizer Gift Acct.”

**Saha, Shubin K;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$2,750, “Multi-Sponsored Gift Account.”

**Saha, Shubin K;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$8,000, “Multi-Sponsored Gift Account.”

**Saha, Shubin K;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$900, “Multi-Sponsored Gift Account.”

**Saha, Shubin K;** horticulture & landscape architecture, from Teva Corporation, \$7,200, “Fertilizer Gift Acct.”

**Saha, Shubin K;** horticulture & landscape architecture, from Multi-Sponsored Industrials, \$900, “Multi-Sponsored Gift Account.”

**Sands, Laura P;** nursing, from Edith Nourse Rogers Memorial Veterinary Hospital, \$22,411, “Intergovernmental Personnel Assignment (IPA) — Assessment of Patient Centered Care.”

**Savikhin, Sergei F;** physics, from National Science Foundation, \$144,929, “Research Experience for Undergraduates (REU) Site: Multidisciplinary Physics at Purdue University; Amendment 1 for Grant 105826.”

**Savran, Cagri A;** mechanical engineering, from National Science Foundation, \$150,000, “Nanoelectromechanical System for in Situ Measurement of Cell Surface Charge.” (a Discovery Park award — Birck Nanotechnology Center)

**Scharenberg, Rolf P; Hirsch, Andrew S; Srivastava, Brijesh K; Wang, Fuqiang and Xie, Wei;** physics, from U.S. Department of Energy, \$434,000, “The Experimental Study of the Phase Structure of Strongly Interacting Matter; Modification 33 for Grant 105763.”

**Scharenberg, Rolf P; Hirsch, Andrew S; Srivastava, Brijesh K; Wang, Fuqiang and Xie, Wei;** physics, from U.S. Department of Energy, \$217,000, “The Experimental Study of the Phase Structure of Strongly Interacting Matter.”

**Scharenberg, Rolf P;** physics, from Purdue University, \$17,608, “Phase Diagram of Hadronic Matter.”

**Scharf, Michael E;** entomology, from Purdue University, \$17,608, “Understanding the Importance and Contribution of Bacterial Symbionts to Reticulitermes Flavipes Nutritional Immunology.”

**Schoenlein, William E;** biomedical engineering, from Medical Engineering & Development Institute Inc., \$52,980, “Enteric Device Testing Study CE-POC Addendum to Grant # 202362.”

**Schoenlein, William E and Van Alstine, William G;** biomedical engineering, comparative pathobiology, from Medical Engineering & Development Institute Inc., \$67,937, “Intravascular Testing Agreement Studies: CI\_EMCS, CI-SIST, CI-PTXY Addendum to Grant 203133.”

**Schulz, Burkhard;** horticulture & landscape architecture, from Purdue University, \$17,608, “Brassinosteroid Interaction During Sex Determination of Maize.”

**Sesmero, Juan P;** agricultural economics, from Purdue University, \$17,608, “Institutions, Property Rights and Groundwater Depletion in Developing Countries.”

**Shah, Kavita;** chemistry, from National Institutes of Health, \$19,250, “Chemical Genetic Dissection of Aurora A in Promoting EMT and Stem Cells Phenotype.”

**Shakouri, Ali and Moon, Robert J;** electrical & computer engineering, materials engineering, from U.S. Forest Service, \$25,000, “Renewable Materials Nanotechnology Research Initiative.” (a Discovery Park award — Birck Nanotechnology Center)

**Shaver, Gregory M and Lucht, Robert P;** mechanical engineering, from Cummins Inc, \$100,000, “Technology and System Level Demonstration of Highly Efficient and Clean, Diesel Powered Class 8 Trucks.”

**Shepson, Paul B and Pratt, Kerri A;** chemistry, from Western Michigan University, \$98,407, “Studies of the Role of BVOCs and Their Oxidation Production in the Production of SOA in the Southeastern U.S.”

**Shimko, Keith L;** political science, from Purdue University, \$17,608, “State Motivation in International Conflict.”

**Shipsey, Ian P;** physics, from Fermi National Accelerator Laboratory, \$48,000, “FERMI-LAB: General Accelerator Development (GAD) Salary of LHC Physics Center (LPC) Coordinator- Ian Shipsey 2009.”

**Siegmund, Thomas H;** mechanical engineering, from National Science Foundation, \$193,527, “Intergovernmental Personnel Assignment (IPA) Assignment for Thomas Siegmund.”

**Siegmund, Thomas H and Bolton, J S;** mechanical engineering, from Trask Trust Fund, \$33,626, “Metamaterial Sound Insulation Panelsa.”

**Simpson, Garth J; Das, Chittaranjan and Qi, Minghao;** chemistry, electrical & computer engineering, from PHS-NIH National Center for Research Resource, \$10,770, “Nonlinear Optical Imaging for Guiding Protein Structure Determination - for Grant 104892.”

**Siow, Yeow K;** mechanical engineering — Calumet Campus, from Stevens Institute of Technology, \$2,000, “Engaging Students in Engineering- Using Everyday Examples in Engineering (E3s) in the Classroom.”



**Siskind, Jeffrey M;** electrical & computer engineering, from Army Research Laboratory, \$438,478, “Robust and Principled Visual Intelligence; Modification 8 for Grant 104743.”

**Slaten, Christopher D;** educational studies, from Purdue University, \$17,608, “Understanding the Impact of Belong at Academic Schools.”

**Sloan, Mary Anne;** technical assistance program, from Indiana State Office of Rural Health, \$18,355, “Lean Healthcare Training/Project Facilitation and Introduction for Indianas Critical Access Hospitals.”

**Sloan, Mary Anne;** technical assistance program, from Multi-Sponsored Industrials, \$500, “Multi Sponsor Account I-HITEC.”

**Smida, Besma;** electrical and computer engineering — Calumet Campus, from National Science Foundation, \$238,885, “CIF: Small: Optimizing Two-Way Communications with Feedback.”

**Smith, Mjt;** graduate school administration, from Purdue University Special Initiative Program, \$2,678, “Adia, Raghavendra.”

**Smith, Richard S;** food science, from Alcoa Inc, \$750, “Food Science Research.”

**Smith, Richard S;** food science, from Alcoa Inc, \$1,500, “Food Science Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$8,250, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,018, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$3,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$6,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$6,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, “Sensory Evaluation Research.”

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$5,000, “Sensory Evaluation Research.”

**Snow, David P;** speech, language and hearing sciences, from Indiana Economic Development Corporation, \$335,644, “Manufacturing Extension Partnership.”

**Son, Steven F;** mechanical engineering, from National Aeronautics and Space Administration, \$68,000, “Development of High Performance Hybrid Fuels- NASA Space Technology Research Fellowships (NSTRF) Fellowship for Chris Zaseck.”

**Souchon, Linda B;** field extension educators, from Johnson County Community Foundation Inc, \$5,000, “Read, Taste, and Touch of Agriculture and Summer Youth Garden Camp.”

**Soule, Tanya T;** biology — Fort Wayne campus, from Indiana Academy of Science, \$1,102, “Impacts of Ultraviolet Radiation and Oxidative Stress on Slime Production in Cyanobacteria.”

**Spafford, Eugene H;** computer science, from John Wiley & Sons Limited England, \$30,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

**Stainback, Kevin M;** sociology, from Purdue University, \$17,608, “Urban Privilege and Rural Stigman: the Changing Effect of Hukou Status on Occupational Mobility and Income Trajectory During Chinas Market Transition.”

**Stauffer, Cynthia V;** biological sciences, from Purdue University, \$17,608, “Structural Elucidation of the Role of the Cytoplasmic Tyrosine Phosphorylation in the Regulation of EphA2 Signaling.”

**Stephenson, Marcia C;** foreign language & literature, from Purdue University, \$17,608, “Argentine Women and Technology: The Analysis of Gendered Genre Evolution from Interdisciplinary Perspectives.”

**Stewart, Terry S; Richert, Brian T; Ajuwon, Kolapo and Schinckel, Allan P;** animal sciences, from Elanco Animal Health, \$28,477, “Soy Genetics Feeding Trial One.”

**Story, Jon A;** graduate school administration, from Indiana University School of Medicine, \$7,932, “Clinical and Translational Sciences Institute (CTSI) Predoctoral Trainee Award - Tully; Amendment 1.” (a Discovery Park award — Bindley Bioscience Center)

**Story, Jon A; Snyder, Margie E; Hudmon, Karen S and Murray, Michael D;** graduate school administration, pharmacy practice, from Indiana University School of Medicine, \$11,611, “Clinical and Translational Sciences Institute (CTSI) Young Investigator Award.” (a Discovery Park award — Bindley Bioscience Center)

**Strickland, Elizabeth A;** speech, language and hearing science, from Purdue University, \$17,608, “Investigating the Mechanisms Underlying Intensity Discrimination.”

**Subbarayan-Shastri, Ganesh;** mechanical engineering, from Research Foundation of SUNY, \$95,000, “3-D Simulations of Electromigration Driven Failure: Enabling Limiting Current Prediction for Cu Pillar Microbumps and 3-D TSVs; Modification 2.”

**Subbarayan-Shastri, Ganesh;** mechanical engineering, from Semiconductor Research Corporation, \$94,600, “Electrical-Mechanical Design Optimization for through-Silicon Vias; Modification 3.”

**Sudhoff, Scott D;** electrical & computer engineering, from Ford Motor Company, \$40,000, “Ford Motor Co. URP Award PhD Support.”

**Sundquist, John D;** foreign language & literature, from Purdue University, \$17,608, “Perceptions of Pronunciation and the Link to Oral Production Anxiety Among German Students.”

**Suter, Daniel M;** biological sciences, from Purdue University, \$17,608, “Src Tyrosine Kinase Regulation of Growth Cone Motility and Guidance.”

**Swihart, Robert K;** forestry & natural resources, from Indiana Arborists Association, Inc., \$3,750, "Indiana Arborists Association, Inc."

**Tarko, Andrew P and Romero, Mario A;** civil engineering, from Indiana Department of Transportation, \$165,000, "Upgrading Roadhat-Collision Diagram Builder and HSM Elements."

**Taylor, Julia M;** computer & information technology, from Purdue University, \$17,608, "Toward Sematic-Based Phishing Detection."

**Taylor, Lynne S;** industrial & physical pharmacy, from Pharmaceutical Research and Manufacturers of America Inc, \$20,000, "Pharma Pre-Doctoral Fellowship-Matthew Jackson."

**Tisdale, James E;** pharmacy practice, from Health & Hospital Corp of Marion County, \$44,615, "Health and Hospital Corp of Marion County."

**Toppe, Elizabeth M;** industrial & physical pharmacy, from Purdue University, \$17,608, "Thiol-Disulfide Exchange and Disulfide Scrambling in Peptides Derived from Human Growth Hormone."

**Tuinstra, Mitchell R;** agronomy, from Purdue University, \$17,608, "Genetic Control of Kernel Composition and Leaf Nitrogen Remobilization in Diverse Populations of Corn and Sorghum."

**Ulrich, Bernd;** mathematics, from National Science Foundation, \$96,991, "Rees Algebras and Singularities; Amendment 1 for Grant 105885."

**Vacca, Andrea;** agricultural & biological engineering, from Multi-Sponsored Industrial, \$2,550, "Multi-Sponsored Gift."

**Varma, Arvind;** chemical engineering, from Carnegie-Mellon University, \$36,561, "Agreement for Student Support - A. Koswara."

**Viens, Frederi G;** statistics, from Purdue University, \$17,608, "High Frequency Algorithmic Portfolio Trading."

**Vijaykumar, T N and Pomeranz, Irith;** electrical & computer engineering, from National Science Foundation, \$492,844, "Software and Hardware Foundations (SHF): Small: Light-Weight Architectural Schemes for Resilient High-Performance Microprocessors."

**Villoria, Nelson B;** agricultural economics, from Purdue University, \$17,608, "Heterogeneous Firms."

**Viswanathan, Chandramouli and Hixon, Emily J;** mechanical engineering — Calumet Campus, teacher preparation — Calumet Campus, from National Science Foundation, \$193,382, "Integrating Virtual 3-D Lab Modules for Flood Modeling Studies in Civil Engineering Curriculum: an Inter-University Implementation and Evaluation."

**Vyn, Tony J;** agronomy, from Fluid Fertilizer Foundation, \$14,000, "Agricultural Cropping Systems."

**Wassgren, Carl R;** mechanical engineering, from Pfizer Inc, \$191,510, "Powder Processing Simulations Incorporating Particle Shape and Inter-Particle Cohesion for Enhanced Process and Materials Understanding."

**Wasynczuk, Oleg;** electrical & computer engineering, from Sandia National Laboratories, \$73,972, "Enabling Secure, Scalable Microgrids with High Penetration Renewables."

**Weaver, Connie M;** foods & nutrition, from Kraft Foods Global, Inc, \$6,000, "Corporate Affiliates Fund."

**Weaver, Gabriela C;** chemistry, from Purdue University, \$17,608, "Longitudinal Evaluation of a Hybrid Scale-Up Model for First Year Chemistry Courses Statement of the Problem."

**Weiner, Andrew M and Qi, Minghao;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$878,132, "Integrated Coherent Comb and Line-by-Line Pulse Shaper for Radio Frequency (RF) Photonic Filtering."

**Weiss, William J and Blatchley, Ernest R;** civil engineering, from Concrete Sealants Inc, \$114,746, "Assessing the Performance of Antimicrobial Concrete Admixtures in Concrete Exposed to Microbially Induced Corrosion (MIC)."

**Weiss, William J and Tao, Bernard Y;** civil engineering, agricultural & biological engineering, from Indiana Soybean Alliance, \$57,979, "Soy-Based Luminescent Concrete Sealant."

**Wendt, Oliver;** speech, language and hearing science, from Trask Trust Fund, \$50,000, "Development of SPEAK More — A Language Training App for Individuals with Severe Autism."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc., \$1,036, "Purdue Pesticide Programs."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc, \$690, "Purdue Pesticide Programs."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc, \$1,100, "Purdue Pesticide Programs."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc, \$974, "Purdue Pesticide Programs."

**Wilker, Jonathan J;** chemistry, from National Science Foundation, \$54,127, "Novel Carbon Rich Organometallics Based on Iso-Triacetylene: Effects of Cross Conjugation."

**Williams, Kipling D;** psychological science, from National Science Foundation, \$49,999, "Upgrading Cyberball: A Paradigm to Study Ostracism and Discrimination."

**Williams, Rod N;** forestry & natural resources, from Purdue Doctoral Program, \$17,556, "Hernandez-Gomez, Obed."

**Wirth, Mary J;** chemistry, from PHS-NIH National Institute of General Medical Science, \$18,095, "Targeting of Bladder Tumor Cells by Nanocarriers Bearing Bacillus Calmette-Guerin Fibronectin Attachment of Protein."

**Wirth, Mary J;** chemistry, from PHS-NIH National Cancer Institute, \$149,618, "cIEF of Glycoproteins in Short Nanoporous Channels."

**Wise, Kiersten A;** botany & plant pathology, from E. I. du Pont de Nemours and Company, \$8,000, "Voluntary Support Account."

**Wise, Kiersten A;** botany & plant pathology, from E. I. du Pont de Nemours and Company, \$9,000, "Voluntary Support Account."

**Wise, Kiersten A;** botany & plant pathology, from Agricultural Research Service, \$7,303, "Integrated Management Strategies for Fusarium Head Blight in Indiana."

**Wise, Kiersten A;** botany & plant pathology, from E. I. du Pont de Nemours and Company, \$300, "Voluntary Support Account."

**Woloshuk, Charles P;** botany & plant pathology, from Purdue University, \$17,608, "Effect of Mutations to FST1 in Fusarium Verticillidiosis on Functionality and the Regulation of Gene Expression."

**Wu, Yue;** chemical engineering, from Showalter Trust, \$75,000, "Reduction of Heat Pollution in Water from Power Industry Using Thermoelectric-Based Refrigeration."

**Xia, Jianlin;** mathematics, from National Science Foundation, \$21,011, "Efficient Structured Direct Solvers and Robust Structured Preconditioners or Large Linear Systems and Their Applications; Amendment 2 for Grant 105454."

**Xia, Jianlin**; mathematics, from Purdue University, \$17,608, “Fast Algorithms for Structured and Sparse Matrices.”

**Xia, Jianlin**; mathematics, from National Science Foundation, \$211,454, “Faculty Early Career Development (CAREER): Structured Matrix Computations: Foundations, Methods, and Applications.”

**Xia, Yu**; chemistry, from American Society for Mass Spectrometry, \$35,000, “ASMS Gift Funds.”

**Xia, Yu**; chemistry, from National Science Foundation, \$122,018, “Gas-Phase Ion Chemistry of Peptide Radical Ions and Applications in Protein Characterization.”

**Xin, Yan Ping**; educational studies, from Purdue University, \$17,608, “A Comparison of the Effects of Two Instructional Sequences of Modules in a Math Problem-Solving Intelligent Tutor.”

**Yang, Chen**; chemistry, from Purdue University, \$17,608, “2013 Purdue Research Foundation (PRF) Silicene: Novel Two Dimensional Material Beyond Graphene.”

**Yang, Jer-Yen**; basic medical science, from Purdue University, \$8,000, “The Role of AMPK and Hedgehog Pathways in Medulloblastoma Development.”

**Yeo, Yoon**; industrial & physical pharmacy, from Purdue University, \$17,608, “Nanoparticle Depot for Intraperitoneal Chemotherapy of Ovarian Cancer.”

**Yeomans, Christopher L**; philosophy, from Purdue University, \$17,608, “Pantheism in Spinoza, Hegel and Contemporary Philosophy of Religion.”

**Yernool, Dinesh A**; biological sciences, from PHS-NIH National Institute of General Medical Science, \$18,710, “Structure and Function of Sodium-Calcium Exchangers.”

**Zanotti, Laura C**; American Studies, from Purdue University, \$17,608, “Hard Labor: Pursuing Economic Citizenship and Legal Recognition of Certified Professional Midwives in Alabama.”

**Zhang, Guangjun**; comparative pathobiology, from Showalter Trust, \$75,000, “Identify Novel Cancer Driver Genes on Chromosome 4q and 12q in Human Malignant Peripheral Nerve Sheath Tumors.”

**Zhang, Xiangyu**; computer science, from National Science Foundation, \$150,000, “Software and Hardware Foundations (SHF): Small: Collaborative Research: Towards Automated Model Synthesis of Library and System Functions for Program-Environment Co-Analysis.”

**Zhang, Xiangyu**; computer science, from National Science Foundation, \$400,000, “Software and Hardware Foundations (SHF): Small: Reliable Data Processing by Program Analysis.”

**Zhang, Xiangyu and Xu, Dongyan**; computer science, from TT Government Solutions Inc., \$79,000, “Modification 3 - Extracting Functional Components from x86 Binaries (Subcontract 20016918).”

**Zhu, Jian-Kang**; biochemistry, from PHS-NIH National Institute of General Medical Science, \$323,227, “Calcium Signaling and Ion Homeostasis Regulation.”

**Zhu, Jian-Kang**; biochemistry, from PHS-NIH National Institute of General Medical Science, \$22,073, “DNA Demethylation and Transcriptional Gene Silencing.”

**Zollner, Patrick A**; forestry & natural resources, from Purdue University F N Andrews Fellowship, \$17,556, “Day, Casey C.”

**Zwier, Timothy S**; chemistry, from Purdue University, \$17,608, “Laboratory Investigations of Prebiotic Chemistry: Photochemical Pathways from Nitriles to Heteroaromatics.” ■

## Notice Regarding Sponsored Program Awards

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