

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

September 2015

Abel, Steven R; Office of Engagement, from Eli Lilly and Company Foundation, \$25,000, "ISI Professional Development 2015-2016."

Abrahamson, Kathleen A; nursing, from Indiana University, \$15,000, "Clinical and Translational Sciences Institute (CTSI) Poise Care Evaluation."

Adeola, Olayiwola; animal sciences, from BASF Corporation, \$139,730, "Growth Performance and Nutrient Digestibility of Broiler Chickens Fed Proteases."

Alam, Muhammad A and Lundstrom, Mark S; electrical & computer engineering, from Stanford University, \$91,667, "A Multiscale, Electro-Thermal-Optical Reliability Framework for Pid and Soiling."

Allebach, Jan P; electrical & computer engineering, from Hewlett Packard, \$5,000, "Image Analysis & Understanding."

Allen, Emily L; Brite, Elizabeth B and Wood, Sashaun K; Honors College, from Indiana Campus Compact, \$14,000, "Help – Honors Engaged Learning in Practice."

Ambrose, Rose Prabin K and Ileleji, Klein; agricultural & biological engineering, from Iowa State University, \$93,000, "Training on Prevention of Grain Dust Explosions."

Ambrose, Rose Prabin K; agricultural & biological engineering, from University of California – Davis, \$19,976, "Borlaug Leap – Develop an Optimised Technique for Solar Dehydration of Tomato and Evaluate Consumer Acceptability, Storage Stability and Functionality of Solar Dried Tomato."

Anderson, Joseph M; agronomy, from Agricultural Research Service, \$6,227, "Acquisition of Goods and Services - for Javier Gonzalez."

Anderson, Joseph M; agronomy, from Natural Resources Conservation Service, \$20,000, "Impact of Carbon on Available Water Holding Capacity and Related Activities."

Applegate, Todd J; animal sciences, from Agricultural Research Service, \$33,100, "Decision Support for Environmental Management of Cage and Cage-Alternative Layer Housing Systems for Thermal Comfort and Air Quality."

Arriaga, Ximena B; psychological science, from National Science Foundation, \$335,120, "SBE/RCUK: Relationship Strategies and the Stability of Interpersonal Security Over Time."

Bahr, David F; materials engineering, from Purdue Doctoral Program, \$31,228, "Walters, Anna."

Bahr, David F; materials engineering, from Purdue University F N Andrews Fellowship, \$21,544, "Shrestha, Shikha."

Bahr, David F; Johnson, David R and Trumble, Kevin P; materials engineering, from Association for Iron and Steel, \$8,000, "Lab Development for Incorporating Modern Iron and Steel Alloys in the Materials Engineering Curriculum at Purdue University."

Bayley, William G; chemistry, from Klondike Middle School, \$300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Ivy Technology State College, \$150, "Instrumentation Van Project."

Bayley, William G; chemistry, from Heron High School, \$600, "Instrumentation Van Project."

Bayley, William G; chemistry, from Franklin Central High School, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Metropolitan School Dist. of Warren Twnshp, \$300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Ivy Technology State College, \$450, "Instrumentation Van Project."

Bayley, William G; chemistry, from Tippecanoe School Corporation, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from West Lafayette School Corporation, \$600, "Instrumentation Van Project."

Bayley, William G; chemistry, from Kokomo-Center Township Consolidated School Corporation, \$1,300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Cathedral Trustees, Inc., \$600, "Instrumentation Van Project."

Beaudoin, Stephen P and Boudouris, Bryan W; chemical engineering, from Northeastern University, \$80,000, "Improved Swab Design for Contact Sensing."

Beaudoin, Stephen P; chemical engineering, from Northeastern University, \$70,000, "Mechanics of Compounded Explosives for Enhanced Checkpoint Detection."

Beaulieu, Lionel J; Office of Engagement, from Australia New Zealand Reg Science, \$1,500, "Multi-Sponsored Account (Purdue Center for Regional Development (PCRD))."

Beaulieu, Lionel J; Track Express-Center for Regional Development, from Economic Research Service, \$218,157, "The Ridge Center for Rural Studies: Exploring the Food Assistance & Nutrition Challenge of People, Households & Communities in Rural America."

Beckerman, Janna L; botany & plant pathology, from BASF Corporation, \$8,000, "Soybean Extension Research."

Beckerman, Janna L; botany & plant pathology, from BASF Corporation, \$8,000, "Indiana Arborists Association, Inc."

Bertino, Elisa and Baker, Peter N; computer science, from National Science Foundation, \$279,058, "CICI: Data Provenance: Collaborative Research: CY-Director Cyber-Provenance Infrastructure for Sensor-Based Data-Intensive Research." (a Discovery Park award – Cyber Center)

Bertino, Elisa; computer science, from Northrop Grumman Space Technology, \$62,050, "Monitoring Dbms Activity for Detecting Data Exfiltration by Insiders-Change Notice No. 03."

Bertino, Elisa; computer science, from National Science Foundation, \$139,831, "CICI: Secure Data Architecture: Collaborative Research: AMDN Framework for Secure Scientific Collaboration." (a Discovery Park award – Cyber Center)

Bhave, Sunil A; electrical & computer engineering, from University of Chicago, \$225,270, "Mechanical Control of Spin-States in Silicon Carbide, Amendment 1." (a Discovery Park award – Birck Nanotechnology Center)

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

Blatchley, Ernest R; civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,505, "Kim, Jihyun (OIGP)."

Bolin, Jeffrey T; Executive Executive Vice President for Research and Partnerships and Partnerships, from Purdue University, \$168,324, "Reed (Building a Research Environment for Encumbered Data)." (a Discovery Park award – Discovery Park Administration)

Boudouris, Bryan W; chemical engineering, from Honeywell Inc., \$10,000, "Purdue-Honeywell Collaboration."

Boudouris, Bryan W; chemical engineering, from Air Force Office of Scientific Research, \$199,166, "Manipulating Excited State Energy Flow in Organic Systems Using Radical Polymers."

Bouman, Charles A; electrical & computer engineering, from Northeastern University, \$75,000, "Computed Tomography (CT) Image Reconstruction and Processing for Air Transportation Security."

Boutin, Mireille and Magana Deleon, Alejandra J; electrical & computer engineering, computer & information technology, from National Science Foundation, \$150,000, "Research Initiation: Investigating Engineering Students Habits of Mind: a Case Study Approach."

Braun, James E; mechanical engineering, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc., \$10,000, "American Society

of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Grant-IN-Aid Nelson James."

Braun, James E; mechanical engineering, from Pennsylvania State University, \$358,611, "Consortium for Building Energy Innovation, Amendment 14."

Brightman, Andrew O; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$22,772, "2015-16 Joint PhD Program with Indiana University Purdue University at Indianapolis (IUPUI) for Graduate Support - Brent Hukill."

Brosseau-Lapre, Francoise; speech, language and hearing sciences, from American Speech-Language-Hearing Association (ASHA), \$5,000, "Advancing Academic-Research Careers (AARC) Award."

Brouder, Sylvie M; Barton, Amy J; Bracke, Marianne S and Volenec, Jeffrey J; agronomy, library administration, from International Plant Nutrition Institute, \$169,663, "4RN45: Proposal for a 4R Fund Research Repository (4R Fund RR)."

Bugusu, Betty A; Hamaker, Bruce R; Lowenberg-Deboer, James M; Nielsen, S S; Alexander, Corinne E; Ferruzzi, Mario; Ileleji, Klein; Ricker-Gilbert, Jacob E and Woloshuk, Charles P; food science, International Programs in Agriculture, agricultural economics, agricultural & biological engineering, botany & plant pathology, from Agency for International Development, \$458,404, "Feed the Future Innovation Lab for Food Processing and Post-Harvest Handling."

Buhman, Kimberly K; foods & nutrition, from Tufts University, \$15,000, "Role of ACSL5 in Intestinal and Liver Triacylglycerol Metabolism."

Bullock, Darcy M; civil engineering, from David M. Knox Endowment, \$20,266, "Richardson, Lucy M."

Bullock, Darcy M; civil engineering, from Institute of Transportation Engineers, \$2,000, "Joint Transportation Research Program (JTRP) Supplementary Research Account."

Bullock, Darcy M; civil engineering, from Old Dominion University Research Foundation, \$10,000, "Monitoring & Training Tools to Improve Safety of Construction and Support Vehicle Operations-Fellowship for Drake Krohn."

Cain, Steven A and Hostetler, Abby R; agricultural communication, from National Institute of Food & Agriculture, \$370,800, "Extension Disaster Education Network (EDEN) Security Initiative VIII: Strengthening EDENs Role in Homeland Security, Food and Ag Defense, and All Hazard Education."

Caldwell, Barrett S; industrial engineering, from Purdue Doctoral Program, \$31,202, "Cheng, Laura."

Calve, Sarah; biomedical engineering, from Symic OA Co, \$8,353, "Testing of AggreCan Mimic for the Treatment of Osteoarthritis."

Campbell, Wayne W; foods & nutrition, from National Cattlemen Beef Association, \$333,775, "Effects of Incorporating Red Meat into a Mediterranean-Style Dietary Pattern on Cardiometabolic and Emotional Well-Being."

Campbell, Wayne W; foods & nutrition, from American Egg Board, \$750, "Egg Board Gift."

Cardella, Monica E; Brophy, Sean; Hynes, Morgan M; Moore, Tamara J and Purzer, Senay; engineering education, from National Science Foundation, \$2,044,930, "DD: Interconnected Ecosystem for Integrated Stem Learning for K-2 Learners."

Casteel, Shaun N; agronomy, from BASF Corporation, \$18,000, "Soybean Extension Research."

Casteel, Shaun N; agronomy, from Bayer CropScience, \$6,300, "Soybean Extension Research."

Chandramouli, Chandramouli V; Moreland, John R and Zhou, Chenn Q; mechanical engineering - calumet campus, center for innov thru visual & simulation, center for innovation thru visual & sim, from Indiana Department of Natural Resources, \$24,998, "Virtual 3-D Model of a Septic System and its Maintenance for Education and Outreach to Homeowners."

Chandramouli, Chandramouli V; mechanical engineering - calumet campus, from Northwestern IN Regional Planning Commission, \$2,800, "Developing Nutrient and Sediment TMDL for Deep River System."

Chandrasekar, Srinivasan and Trumble, Kevin P; industrial engineering, materials engineering, from Army Research Office, \$53,000, "Fluid-Like Flow, Surface Instabilities and Folding in Metal Plasticity and Wear."

Chen, Qingyan; mechanical engineering, from Tianjin University, \$100,000, "Impact of Air Pollution at Chinese Airports on Aircraft Ecs Performance and Cabin Environment (Phase II)."

Chen, Qingyan; mechanical engineering, from Northeastern University, \$60,000, "Enhancement of Explosive Vapor Detection in Shipping Container."

Cheng, Gary J and **Chen, Yong P**; industrial engineering, electrical & computer engineering, from National Science Foundation, \$300,000, "Large Scale Nanomanufacturing of Inhomogeneous Strained and Novel Functional 2D Electronic Materials."

Cheng, Ji-Xin; biomedical engineering, from PHS-NIH National Institute of General Medical Science, \$237,188, "Microsecond Raman Spectroscopy: Assessing Single Cell Metabolism in a Vital Organism."

Christian, John A; comparative pathobiology, from Western University of Health Sciences, \$1,885, "Cytology Resource Center."

Clase, Kari L; industrial technology, from Purdue University, \$5,000, "1516 Entrepreneurial Leadership Academy Award." (a Discovery Park award – Burton D. Morgan Center)

Connor, Robert J and **Lloyd, Jason B**; civil engineering, from Indiana Department of Transportation, \$89,760, "Implementation of S-Brite Risk Based Bridge Inspection."

Connor, Robert J; civil engineering, from University of Missouri, \$2,000, "Guidelines to Improve the Quality of Element-Level Bridge Inspection Data."

Connor, Robert J and **Lloyd, Jason B**; civil engineering, from Indiana Department of Transportation, \$57,824, "Expansion of SPR-3820 S-Brite Probability of Detection Study."

Cooks, Robert G; chemistry, from Annual Reviews, \$2,000, "Chemistry Research."

Cox, Monica F and **Main, Joyce B**; engineering education, from National Science Foundation, \$1,131,464, "Collaborative Research: Why We Persist: an Intersectional Approach to Characterizing and Examining the Experiences of Women of Color Tenure-Track Faculty in Engineering."

Culurciello, Eugenio; biomedical engineering, from Office of Naval Research, \$16,000, "Software and Hardware for Deep Learning of Video Sequences."

Dark, Melissa J and **Springer, John A**; computer & information technology, from National Security Agency, \$167,000, "Insure 2.0-an Agile, Persistent Cybersecurity Research Network."

DeBoer, Jennifer J; **Berger, Edward J** and **Rhoads, Jeffrey F**; engineering education, mechanical engineering, from National Science Foundation, \$1,400,000, "IUSE: Understanding and Supporting Mechanical Engineering Undergraduate Student and Faculty Engagement with an Active, Blended and Collaborative Learning Environment."

Deering, Amanda J; food science, from Mark or Carolyn Straw, \$500, "Multi Sponsored Gift Account."

Delp, Edward J; electrical & computer engineering, from Indiana University, \$67,264, "Center for Advanced Renal Microscopic Analysis; Subaward in 4685579pu, Amendment 3."

Delp, Edward J; electrical & computer engineering, from University of Hawaii, \$57,336, "Domoic Acid Neurotoxicity in Native Americans."

Deng, Meng and **Kuang, Shihuan**; agricultural & biological engineering, animal sciences, from Showalter Trust, \$75,000, "Polymer-Based Therapeutics for Treatment of Obesity and Diabetes."

Deshmukh, Abhijit V; industrial engineering, from Accenture LLP, \$25,000, "Accenture- Deshmukh."

DeWoody, James A; forestry & natural resources, from U.S. Geological Survey, \$12,000, "Genetic Structure of Golden Eagles in Western San Diego County."

Diefes-Dux, Heidi A; engineering education, from Arizona State University, \$20,234, "Making Grades Meaningful - Standards-Based Grading for Engineering Project Courses."

Dilkes, Brian and **Johal, Gurmukh S**; biochemistry, botany & plant pathology, from North Carolina State University, \$418,635, "The Genetic and Genomic Exploration of the Maize HR Response."

Dong, Suchuan; mathematics, from National Science Foundation, \$90,000, "Collaborative Research: a New Parallel 3-D Immersed Boundary Method for Hemodialysis."

Douglas, Kerrie A; **Bermel, Peter A**; **Diefes-Dux, Heidi A** and **Madhavan, Krishna**; engineering education, electrical & computer engineering, from National Science Foundation, \$799,534, "Contextualized Evaluation Framework for Advanced Science, Technology, Engineering & Mathematics MOOCs."

Duerstock, Bradley S; industrial engineering, from Purdue University, \$5,000, "1516 Entrepreneurial Leadership Academy Award." (a Discovery Park award – Burton D. Morgan Center)

Dumbacher, Daniel L; aeronautical & astronautical engineering, from Purdue University, \$5,000, "1516 Entrepreneurial Leadership Academy Award." (a Discovery Park award – Burton D. Morgan Center)

Dyke, Shirley J; mechanical engineering, from Winifred B. Bilsland Endowment, \$20,189, "Ou, GE."

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$243,429, "Wireless Broadband Technology Program, Wireless Communications - Objective Video Quality Metric with Applications in Video Analytics in Public Safety." (a Discovery Park award – Discovery Park Administration)

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$150,000, "Apex Programs: Border Situational Awareness." (a Discovery Park award – Discovery Park Administration)

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$75,000, "Support for UCSB's Mobile Malware." (a Discovery Park award – Discovery Park Administration)

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$1,700,000, "Vaccine Center Year 7." (a Discovery Park award – Discovery Park Administration)

Ebert, David S; electrical & computer engineering, from U.S. Coast Guard, \$24,000, "Coast Guard Data Profiling and Quality Assurance." (a Discovery Park award – Discovery Park Administration)

Ebner, Paul D and **Oliver, Haley F**; animal sciences, food science, from Procter & Gamble Company, \$343,298, "Efficacy of Phage-Based Treatment in Reducing Listeria Contamination of Non-Food Contact Surfaces."

Eckhardt, Christopher I; psychological science, from PHS-NIH National Institute on Alcohol Abuse, \$43,120, “Randomized Controlled Trial of an Attention-Based Intervention for Alcohol-Facilitated Intimate Partner Violence - Joel Sprunger NIAAA Fellowship.”

Edwards, Nancy E; nursing, from Health Resources & Services Administration, \$8,109, “Advanced Education Nursing Traineeship (AENT) Program – Increase to 106259.”

Egel, Daniel S; botany & plant pathology, from Clifton Seed Company, \$600, “Potassium Management.”

Egel, Daniel S; botany & plant pathology, from Bayer CropScience, \$1,000, “Potassium Management.”

Engel, Bernard A and Theller, Lawrence O; agricultural & biological engineering, from Army Corps of Engineers, \$74,065, “Current Reduction Status Regional Tracker (CRSTracker).” (a Discovery Park award – Global Sustainability)

Esters, Levon T; youth development & agricultural education, from CHS Foundation, \$5,000, “John Deere Map Summer Program.”

Farkas, Brian E; food science, from Heatgenie Inc, \$1,600, “Food Science Research.”

Farkas, Brian E; food science, from Alltech, Inc, \$2,000, “Food Science Research.”

Field, William E; agricultural & biological engineering, from National Institute of Food & Agriculture, \$521,457, “National Agrability Project.”

Finley, John P; physics, from Rolf or Mary Jane Scharenberg, \$129,000, “Voluntary Support.”

Fisher, Timothy and Ruan, Xiulin; mechanical engineering, from Case Western Reserve University, \$264,528, “Nanofabrication of Tunable 3-D Nanotube Architectures.” (a Discovery Park award – Birck Nanotechnology Center)

Fisher, Timothy; mechanical engineering, from Molex Incorporated, \$59,862, “Graphene Contact Coating Development.” (a Discovery Park award – Birck Nanotechnology Center)

Fisher, Timothy; mechanical engineering, from Lockheed Martin Corp., \$100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership.”

Flaherty, Elizabeth A; forestry & natural resources, from U.S. Forest Service, \$10,000, “Northern Flying Squirrel Population-Level Responses to Forest Management and Red Spruce Restoration in the Allegheny Mountains.”

Florax, Raymond; Delgado, Michael S; Waldorf, Brigitte S; Beaulieu, Lionel J; Kumar, Indraneel and Wilcox, Michael D; agricultural economics, Office of Engagement, agriculture – administration, from Economic Research Service, \$85,000, “Resilience to the Intergenerational Transmission of Poverty.”

Flores, Joseph I; Education Opportunities Program — Calumet campus, from Indiana Department of Education, \$8,360, “Purdue University Calumet Upward Bound Summer Food Service Program 2015.”

Foster, Ricky E; Johnson, William G; Beckerman, Janna L; Egel, Daniel S; Legleiter, Travis R; Obermeyer, John L; Sadof, Clifford S; Krupke, Christian H; Wise, Kiersten A and Richmond, Douglas S; entomology, botany & plant pathology, from National Institute of Food & Agriculture, \$190,000, “Advancing Integrated Pest Management (IPM) in Indiana.”

Gallant, Kathleen H and Zoss, Donna L; foods & nutrition, from Indiana Department of Education, \$41,329, “National School Lunch Program Cycle Menu Project for Indiana Schools.”

Gallon, Kim T; history, from American Council of Learned Societies, \$85,000, “Black Press Born Digital Project.”

Gallon, Kim T; Kong, Ningning N and Patton, Venetria K; history, library administration, English, from National Endowment for the Humanities, \$245,299, “Space and Place in Africana/Black Studies: an Institute on Spatial Humanities Theories, Methods and Practice for Africana Studies Scholars.”

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

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$106,098, “Assimilation of Global Navigation Satellite System (GNSS)-R Delay-Doppler Maps into Hurricane Models.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$265,986, “Signals of Opportunity Airborne Demonstrator (SOOP-AD), Modification 5.”

Gaskill, Brianna N; comparative pathobiology, from Stanford University, \$20,507, “Validation of Automated Analgesic Self Administration as a Refined Translational Measure of Rodent Pain and Wellbeing.”

Gentry, Marcia L; educational studies, from U.S. Department of Education, \$490,807, “Developing Talents and Improving Student Achievement Among Traditionally Underrepresented Populations.”

Gerber, Corey K; agronomy, from Mycogen Corporation, \$2,750, “Crop Diagnostic Training Center - Mycogen Seeds.”

Gerber, Corey K; agronomy, from Indiana Corn Marketing Council, \$1,550, “Crop Scouting Project Competition.”

Gerber, Corey K; agronomy, from Indiana Soybean Alliance, \$1,550, “Crop Scouting Project Competition.”

Ginzel, Matthew D; entomology, from National Institute of Food & Agriculture, \$278,767, “Enhanced Detection of Pityophthorus Juglandis - the Insect Vector of Thousand Cankers Disease.”

Ginzel, Matthew D; entomology, from U.S. Forest Service, \$40,000, “Assessment of Thousand Cankers Disease within the Native Range of Black Walnut (*Juglans Nigra*).”

Gleich, David F; computer science, from Microsoft Corporation, \$2,500, “Voluntary Support - WAW 2015.”

Gleich, David F; computer science, from Stanford University, \$48,000, “Miner: Multimodal Networks: a General Representational Language Applied to Bio-Medical Hypothesis Generation and Validation.”

Gleich, David F; Grama, Ananth Y and Neville, Jennifer L; computer science, from National Science Foundation, \$900,000, “Bigdata: F: Models, Algorithms, and Software for Spatial-Relational Networks.”

Godwin, Allison F; engineering education, from National Science Foundation, \$287,532, “Collaborative Proposal: Building Supports for Diversity through Engineering Teams.”

Goffman, Lisa A; speech, language and hearing sciences, from National Institutes of Health, \$43,120, “Articulatory, Segmental, and Prosodic Characteristics in Children with Speech Sound Disorders.”

Goforth, Reuben R; forestry & natural resources, from Mississippi Interstate Cooperative Resource Association, \$32,351, “Implementation of the Ohio River Basin Asian Carp Control Strategy Framework.”

Goldberg, David; Banuelos, Rodrigo and Buzzard, Gregory T; mathematics, from U.S. Department of Education, \$295,278, “Increasing U.S. Doctorates in Mathematics 2015 Graduate Assistance in Areas of National Need (GAANN).”

Golden, Robert W; radiological & environmental management, from PHS-FDA Food and Drug Administration, \$3,000, “Verification Audit.”

Greeley, Jeffrey P; chemical engineering, from Argonne National Laboratory, \$136,000, “Center for Electrochemical Energy Storage, Modification 1.”

Greene, Christopher H; physics, from Binational Science Foundation, \$44,957, “Utilization of Few-Body Physics Control to Stabilize the Unitary Bose Gas.”

Groll, Eckhard A; mechanical engineering, from Jet Propulsion Laboratory, \$30,200, “Technical Review Assistance to the Moxie Experiment on the Mars 2020 Mission.”

Groll, Eckhard A; mechanical engineering, from The National GEM Consortium, \$40,000, “2015 GEM PhD Fellowship Dominique Lumpkin.”

Groll, Eckhard A; mechanical engineering, from Whirlpool Corp, \$25,000, “Multi Sponsor Groll.”

Gruenbaum, Ellen R; anthropology, from Purdue Doctoral Program, \$19,462, “Gonzalez, Melinda.”

Handa, Avtar K; horticulture & landscape architecture, from Agricultural Research Service, \$77,000, “Discerning Metabolome and Transcriptome of Elite Germplasm Grown in the Field Under Different Cultivation Practices.”

Handwerker, Carol A; Hua, Inez; Iyer, Ananth V and Ramani, Karthik; materials engineering, civil engineering, department of management, mechanical engineering, from National Science Foundation, \$35,699, “Integrative Graduate Education and Research Traineeship (IGERT): Global Traineeship in Sustainable Electronics.”

Handwerker, Carol A; Hua, Inez; Iyer, Ananth V and Ramani, Karthik; materials engineering, civil engineering, management, mechanical engineering, from National Science Foundation, \$666,331, “Integrative Graduate Education and Research Traineeship (IGERT): Global Traineeship in Sustainable Electronics.”

Handwerker, Carol A; Hua, Inez; Iyer, Ananth V and Ramani, Karthik; materials engineering, civil engineering, management, mechanical engineering, from National Science Foundation, \$500,000, “Integrative Graduate Education and Research Traineeship (IGERT): Global Traineeship in Sustainable Electronics.”

Harbin, Sherry L; biomedical engineering, from Purdue Doctoral Program, \$31,122, “Hernandez, Clarissa.”

Hartman, Nathan W; computer graphics technology, from National Institute of Standards & Technology, \$150,000, “Extending and Evaluating the Model-Based Product Definition.”

Hassanein, Ahmed; Harilal, Sivanandan and Fentiman, Audeen W; nuclear engineering, engineering education, from National Science Foundation, \$800,222, “PIRE: Nuclear Energy Systems and Materials Under Extreme Conditions.”

Heber, Albert J; agricultural & biological engineering, from Drylet, \$5,000, “Agricultural Engineering.”

Heeg, Marlene O; pharmacy – administration, from Shire Pharmaceuticals, \$277,038, “Dry Eye & Ocular Surface Disease(R).”

Heeg, Marlene O; pharmacy – administration, from Janssen Therapeutics, \$300,000, “2015-2016 GALA HCV Resistance Educational Series.”

Helie, Sebastien; psychological science, from University of California - Santa Barbara, \$107,409, “The Cognitive Neuroscience of Human Category Learning, Modification 1.”

Hertel, Thomas W and Taheripour, Farzad; agricultural economics, from Michigan State University, \$261,313, “Complex Dynamics of Telecoupled Human and Natural Systems.”

Hertel, Thomas W; agricultural economics, from Agricultural Economics Research Institute, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

Hoffman, Kerry A; curriculum & instruction, from Purdue University, \$5,000, “1516 Entrepreneurial Leadership Academy Award.”

(a Discovery Park award – Burton D. Morgan Center)

Holland, Jeffrey D and Schemerhorn, Brandon J; entomology, from Agricultural Research Service, \$25,916, “Identification and Analysis of Host Resistance and Hessian Fly Response in Wheat.”

Hopp, Lisa; nursing – Calumet campus, from University of Illinois at Chicago, \$57,273, “Bridges to the Doctorate for Nursing.”

Howell, Kathleen; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$50,000, “Targeting, Guidance and Proximity Operations Near Small Bodies and Complex Multi-Body Regimes, Modification 9.”

Huang, Chi-Hua; agronomy, from Agricultural Research Service, \$35,410, “Acquisition of Goods and Services.”

Hubbard, Sarah M and Major, Wesley L; aviation technology, from Federal Highway Administration, \$5,000, “Wesley Major – Eisenhower Graduate Fellowship.”

Hutzel, William J; engineering technology, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc., \$5,000, “American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).”

Hwang, Inseok; aeronautical & astronautical engineering, from Optimal Synthesis Inc, \$26,500, “Onboard Model Checking for Small Scale UAV Autopilots.”

Ileleji, Klein; agricultural & biological engineering, from Purdue University, \$15,000, “1516 Entrepreneurial Leadership Academy Award.” (a Discovery Park award – Burton D. Morgan Center)

Johnson, William G; botany & plant pathology, from BASF Corporation, \$21,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Bayer Crops Science, \$24,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from ISK Biosciences Corporation, \$4,800, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Monsanto Company, \$7,500, “Weed Research.”

Johnson, William G; botany & plant pathology, from Dow Agro Sciences, \$60,350, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Nufarm Americas Inc., \$10,000, “Weed Science Research Voluntary Support.”

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, Amendment 1.”

Lowenberg-Deboer, James M and Peters, Jerry L; International Programs in Agriculture, youth development & agricultural education, from Winrock International, \$211,444, “Guinea Agriculture Education and Market Improvement Program.”

Lucht, Robert P; Gore, Jay P; Meyer, Scott E and Sojka, Paul E; mechanical engineering, from Federal Aviation Administration, \$250,000, “Federal Aviation Administration (FAA) COE Ascent: National Jet Fuels Combustion Program: Area 5 Atomization Tests and Models.”

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.”

Luke, Eileen M and Hill, Michael A; CERIS, from Animal Plant Health Inspection Service, \$63,250, “NCPN IT Resources Needs; an Assessment, Evaluation, and Roadmap for Action.”

Luke, Eileen M and Hill, Michael A; CERIS, from Animal Plant Health Inspection Service, \$37,000, “Enhanced Plant Pest/Disease Analysis of the National Plant Diagnostic Network.”

Luo, Zhao-Qing; biological sciences, from Texas A&M Research Foundation, \$59,054, “Identification and Role of Type IV Effector Proteins in *Coxiella Burnetii*; Amendment 3; [Grant 106311].”

Lynall, Matthew D; management, from Daimler Trucks North America LLC, \$3,787, “Krannerts Experiential Learning Initiative (ELI).”

MacDermid Wadsworth, Shelley; child development & family studies, from National Vietnam Veterans Foundation, \$5,000, “Reaching Rural Veterans.”

Madhavan, Krishna; Vorvoreanu, Mihaela; Diefes-Dux, Heidi A; Loui, Michael C; Ohland, Matthew W and Zentner, Michael G; engineering education, industrial technology, academic technologies, from National Science Foundation, \$300,000, “EAGER - BIGDATA: IA: SMART Data - Academic Success Made Affordable, Rapid Response Research (RAPID), and Timely through Integrated Data Analytics.”

Main, Joyce B; engineering education, from National Science Foundation, \$247,412, “An Engineer Like Me: How Perceived Similarity and Peer Effects Influence Student Major Choice.”

Main, Joyce B; engineering education, from National Science Foundation, \$181,161, “Collaborative Research: Understanding the Role of High Schools in Diversifying and Promoting Undergraduate Engineering Degree Attainment.”

Manfra, Michael J; electrical & computer engineering, from Purdue University, \$150,000, “Molecular Beam Epitaxy.” (a Discovery Park award – Birck Nanotechnology Center)

Matson, Eric T and Taylor, Julia M; computer & information technology, from National Science Foundation, \$65,000, “Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-Being.”

Mattoo, Seema and Yernool, Dinesh A; biological sciences, from PHS-NIH National Institute of General Medical Science, \$301,638, “Role of Fic Proteins in Cellular Signaling.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Mark or Lori Sigourney, \$100, “Research for 1995 Vegetable Variety Trial Program.”

McCann, Maureen C; Agrawal, Rakesh; Bermel, Peter A; Dietz, James E; Garimella, Suresh V; Kenttamaa, Hilka I; Kilaz, Gozdem; Pol, Vilas G; Pourpoint, Timothy L; Sharma, Pankaj; Trice, Rodney W; Weibel, Justin A; Wojtalewicz, Clifford J; Xu, Dongyan; Ye, Peide; Youngblood, Jeffrey P and Zhang, Xiangyu; biological sciences, chemical engineering, electrical & computer engineering, computer & information technology, Executive Vice President for Research and Partnerships, chemistry, aviation technology, aeronautical & astronautical engineering, comparative pathobiology, materials engineering, mechanical engineering, computer science, from Office of Naval Research, \$2,000,000, “Neptune Center for Power and Energy Research.” (a Discovery Park award – Energy Center)

McKee, Renee K; Blankenship, Bonnie T; McDonough, Meghan H; Snyder, Frank J and Wynkoop, Ryan D; cooperative extension service expenses, health & kinesiology, from National Institute of Food & Agriculture, \$135,000, “4-H Pals Purdue University Sustainable Community Project.”

McLennan, Michael J; academic technologies, from Leidos, \$72,646, “Establishing a Biomedical Citizen Science Hub for the National Cancer Institute.”

Mesecar, Andrew D; biochemistry, from Loyola University Chicago, \$303,150, “Mechanisms of Viral Proteases in Coronavirus Replication and Pathogenesis.”

Mintert, James R; Gunderson, Michael A and Langemeier, Michael R; agricultural economics, from Chicago Mercantile Exchange, \$734,396, “CME Group Farm Economy Barometer Project.”

Minton, David A; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$30,000, “Modeling the Evolution of Lunar Impact Glasses.”

Mohammadi, Mohsen; agronomy, from Agricultural Research Service, \$25,000, “Genetics of Resistance to Septoria Diseases in Wheat.”

Morisette, Dallas T; electrical & computer engineering, from II-VI Foundation, \$49,500, “SiO₂/4h-SiC Interface Optimization for Next Generation Power MOSFETs.” (a Discovery Park award – Birck Nanotechnology Center)

Nagy, Zoltan; chemical engineering, from Eli Lilly and Company, \$265,000, “Integrated Drug Substance and Drug Product Continuous Manufacturing: Continuous Spherical Crystallization.”

Nateghi, Roshanak; industrial engineering, from National Science Foundation, \$123,709, “Sees: Sustainable Energy Infrastructure Planning.”

Neumeister, Norbert; physics, from Princeton University, \$228,064, “U.S. Compact Muon Solenoid (CMS) Operations at LHC, Amendment 9.”

Nielsen, Robert L; agronomy, from Ron Martin Seed & Supply Co, \$250, “Corn & Soybean Production.”

Niser, John C; consumer & family sciences – Fort Wayne campus, from Niagara University, \$4,000, “HSD Consortium.”

Nitza, Amy J; professional studies – Fort Wayne campus, from The Lutheran Foundation, \$76,250, “Indiana University-Purdue University Fort Wayne (IPFW) Community Counseling Clinic Family Project.”

Niyogi, Devdutta S; agronomy, from National Science Foundation, \$313,096, “Collaborative Research: Extreme Rainfall in Urban Environments.”

Nnanna, Agbai A; mechanical engineering – Calumet campus, from Indiana Department of Natural Resources, \$47,793, “North-west Indiana Well Water Testing Program.”

Nnanna, Agbai A; mechanical engineering – Calumet campus, from Indiana Department of Natural Resources, \$46,256, “Smart-Phone Based Device for Online Monitoring of Chemical Pollutants in Water.”

Oakes, William C; engineering education, from National Science Foundation, \$33,302, “Collaborative Research: Intellectual Diversity and Critical Thinking Skills in Service Learning.”

Ohland, Matthew W; engineering education, from National Science Foundation, \$4,010,978, “Expanding Access to and Participation in the Multiple-Inst. Database for Investigating Engineering Longitudinal Dev.”

Ohland, Matthew W and **Cardella, Monica E**; engineering education, from Boise State University, \$44,941, “Measuring the Effects of Precollege Engineering.”

Panitch, Alyssa; **Rickus, Jenna L**; **Cheng, Ji-Xin**; **Harbin, Sherry L** and **Park, Kinam**; biomedical engineering, agricultural & biological engineering, from National Institutes of Health, \$185,478, “Bioengineering Interdisciplinary Training for Diabetes Research.”

Panitch, Alyssa; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$35,284, “2015-16 Joint PhD Program with Indiana University Purdue University at Indianapolis (IUPUI) for Graduate Support – Han Shih.”

Parashar, Neeti; chemistry and physics – Calumet campus, from University of Nebraska-Lincoln, \$24,395, “U.S. Compact Muon Solenoid (CMS) Phase-1 Upgrades Amendment No. 3.”

Parashar, Neeti; chemistry and physics – Calumet campus, from Princeton University, \$9,421, “US Compact Muon Solenoid (CMS) Phase 2 Upgrade R&D Subsystem.”

Pastakia, Sonak D; pharmacy practice, from Purdue University, \$5,000, “1516 Entrepreneurial Leadership Academy Award.” (a Discovery Park award – Burton D. Morgan Center)

Patrick, Helen; educational studies, from Institute of Education Sciences, \$509,783, “Measuring Effective Teaching Across Core Academic Content Areas in Kindergarten.”

Patton, Aaron J; horticulture & landscape architecture, from Dow Agro Sciences, \$9,500, “Dow Agro Sciences (DAS) Protocol Na15D2C026 and Dow Agro Sciences (DAS) Protocol Na15D2C066.”

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$25,000, “Turfgrass Research.”

Peroulis, Dimitrios and **Allen, Wesley N**; electrical & computer engineering, from Qualcomm Technologies Inc, \$50,000, “Competitive Passive Devices.” (a Discovery Park award – Birck Nanotechnology Center)

Pipes, R Byron; materials engineering, from Fonds National De La Recherche Luxembourg, \$161,597, “Development of an Integrated Methodology for Modeling Discontinuous Fibre Composites - Maxime Claude Henri Lesueur.”

Pizlo, Zygmunt; psychological science, from PHS-NIH National Eye Institute, \$298,270, “Mechanisms Responsible for Veridical Visual Perception.”

Pomeranz, Irith; electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, “Src Contract 2013-Tj-2469, Amendment No. 2.”

Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$319,315, “Nuclear Magnetic Resonance (NMR) Structure of Peptide and Protein Complexes.”

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Space Exploration Technologies Corp, \$15,017, “Evaluation of Materials Compatibility with MMH and NTO.”

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Indiana Office of Tourism Development, \$219,008, “Indiana Bicentennial Torch Relay – Purdue Statement of Work.”

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Purdue University, \$5,000, “1516 Entrepreneurial Leadership Academy Award.” (a Discovery Park award – Burton D. Morgan Center)

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Jacobs Esssa Group, \$18,056, “Triglyme/Sodium Borohydride Fuel Characterization Support.”

Povolotskyi, Mykhailo and **Klimeck, Gerhard**; electrical & computer engineering, from National Science Foundation, \$240,000, “Collaborative Proposal: Nm Electron Wave Devices for Low-Power VLSI Electronics.” (a Discovery Park award – Network for Computational Nanotechnology)

Purzer, Senay; engineering education, from Purdue University, \$5,000, “1516 Entrepreneurial Leadership Academy Award.” (a Discovery Park award – Burton D. Morgan Center)

Raghunathan, Vijay and **Raghunathan, Anand**; electrical & computer engineering, from National Science Foundation, \$500,000, “Computer Systems Research (CSR): Small: Vibration-Based Secure Side Channels for Implantable and Wearable Medical Devices.”

Rainey, Katherine M; agronomy, from Agricultural Research Service, \$9,135, “Characterization of the High Stearic Acid Soybean Oil Trait.”

Ramani, Karthik; mechanical engineering, from National Science Foundation, \$200,000, “Mobimod: Mobile Shape Modeling through Embodied Interactions.”

Ramani, Karthik; mechanical engineering, from National Science Foundation, \$120,000, “EAGER: Collaborative Research: Cyber Manufacturing: Cyber-Manufacturing Systems for Open Product Realization.”

Ratcliffe, Krista L; English, from David M. Knox Endowment, \$20,189, “Garcia, Gabriela M.”

Ratliff, Timothy L; Executive Vice President for Research and Partnerships, from PHS-NIH National Cancer Institute, \$101,513, “National Cancer Institute (NCI) Cancer Center Supplement for Undergraduate Student Research Experiences – P30S.”

Reid, Tahira and **Hynes, Morgan M**; mechanical engineering, engineering education, from National Science Foundation, \$150,000, “Research Initiation: Transformative Approaches to Teaching User-Centered Design.”

Reuhs, Bradley L; food science, from University of Washington, \$6,434, “The Pel Exopolysaccharide Gene Cluster of *Pseudomonas Aeruginosa*, Amendment 1.”

Rhoads, Jeffrey F and **Chiu, George T**; mechanical engineering, from Northeastern University, \$75,000, “Portable, Integrated Microscale Sensors (PIMS) for Explosive Detection.”

Rhoads, Jeffrey F; mechanical engineering, from National Science Foundation, \$330,476, “Collaborative Research: Exploring Dynamic Complex Behaviors in Many-Degree-of-Freedom, Coupled Micro- and Nano-Systems.”

Ribeiro, Fabio H; chemical engineering, from Cummins, Inc., \$140,000, “Ammonia Selective Catalytic Reduction (SCR) on Cu and Fe Zeolite Catalysts.”

Rickus, Jenna L; agricultural & biological engineering, from Purdue University, \$10,000, “Nanohub-U, Jenna Rickus.” (a Discovery Park award – Network for Computational Nanotechnology)

Rochet, Jean-Christophe; medicinal chemistry & molecular pharmacology, from University of Minnesota, \$83,659, “Multiplexed Kinase Biosensor Technology to Detect Leukemia Signaling with Mass Spectrometry.”

Rokhinson, Leonid P; physics, from Office of Naval Research, \$744,903, “Acquisition of a Low Temperature System for the Study of Non-Abelian Topological Excitations.”

Roy, Kaushik; electrical & computer engineering, from Intel Corporation, \$100,000, “Neural Computing STDP.”

Sadeghi, Farshid; mechanical engineering, from Timken Company, \$85,000, “Tribology Lab Research.”

Sadeghi, Farshid; mechanical engineering, from Society of Tribologists & Lubrication Engineering, \$5,000, “Tribology Lab Research.”

Salgado, Rodrigo; civil engineering, from Vietnam International Education Development, \$27,000, “Vietnam International Education Develop Fellowship for Bach Xuan Vu.”

Sambaluk, Nicholas M; computer & information technology, from Purdue University, \$5,000, “1516 Entrepreneurial Leadership Academy Award.” (a Discovery Park award – Burton D. Morgan Center)

Savaiano, Dennis A and Maulding, Melissa K; foods & nutrition, from National Institute of Food & Agriculture, \$410,000, “North Central Nutrition Education Center for Excellence.”

Scachitti, Susan M; engineering technology – Calumet campus, from Department of Veterans Affairs, \$99,066, “VA240C-15-J-0069; Modification 2; (Master: VA240C-14-D0007).”

Schinckel, Allan P and Ajuwon, Kolapo; animal sciences, from University of Arizona, \$90,260, “Engineering Soybeans to Enhance Gut-Health.”

Schoenlein, William E and Lenz, Stephen D; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$91,046, “Pre-Clinical Device Testing Agreement - Studies: CI-INGT, WCE-BVCF and POC.”

Scott-Moncrieff, Joanna C; veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$5,400, “ECC Residency Training Program.”

Scutari, Gesualdo; industrial engineering, from National Science Foundation, \$291,256, “Scutari: Career:Variational Inequalities: a New Paradigm for Cognitive Network Layering.”

Scutari, Gesualdo; industrial engineering, from National Science Foundation, \$224,829, “CIF: Small: Collaborative Research: Communicating While Computing: Mobile Fog Computing Over Wireless Heterogeneous Networks.”

Shepardson, Daniel P; Bayley, William G; Sands, Philip A; Smith, Steven C and Walker, William S; science – administration, chemistry, computer science, earth & atmospheric sciences, Office of Engagement, from Lafayette School Corporation, \$2,000, “Content Thematic Units for Integrated Science, Technology, Engineering & Mathematics (STEM) Education.”

Shepson, Paul B; chemistry, from National Science Foundation, \$277,417, “Intergovernmental Personnel Act Assignment for Paul B. Shepson.”

Shi, Riya; basic medical science, from Mexico National Council of Science and Technology (CONACYT), \$71,313, “Mexico National Council of Science and Technology (CONACYT) 15-16 Fellowship for Marcela Cruz Haces.”

Shih, Tom I; aeronautical & astronautical engineering, from The National GEM Consortium, \$40,000, “2015 GEM Fellowship Alexander Finch.”

Shih, Tom I; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$9,000, “National Aeronautics and Space Administration (NASA) Aeronautics Undergraduate Scholarship.”

Shin, Yung C; mechanical engineering, from Idaho National Laboratory, \$141,448, “Additive Manufacturing of Graphite Matrixed Ceramic Fuel Block.”

Singh, Manpreet; food science, from Heidi Erdman, \$50, “Multi Sponsored Gift.”

Slamovich, Elliott B; materials engineering, from U.S. Department of Education, \$147,639, “Processing of Micro- and Nano-structured Materials 2015 Graduate Assistance in Areas of National Need (GAANN).”

Sloan, Mary Anne; global affairs, from Indiana Rural Health Association, \$4,000, “Multi Sponsor Account I-Hitec.”

Sloan, Mary Anne; global affairs, from Indiana State Medical Association, \$250, “Multi Sponsor Account I-Hitec.”

Sloan, Mary Anne; global affairs, from Infectious Disease of Indiana PSC, \$1,520, “Multi Sponsor Account I-Hitec.”

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$31,001, “Ahangar, Mohsen.”

Smith, Mjt; Mason, Linda J; Yadav, Aman and Sahley, Christie L; graduate school administration, educational studies, biological sciences, from National Science Foundation, \$98,500, “Professorial Advancement Initiative.”

Son, Steven F; mechanical engineering, from Northeastern University, \$75,000, “Small-Scale Characterization of Homemade Explosives (HMES).”

Spafford, Eugene H; computer science, from Cisco Systems, Inc., \$2,500, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

Stansbury, Betty M; airport operations, from Federal Aviation Administration, \$442,969, “Purdue Airport Grant #36.”

Stansbury, Betty M; airport operations, from Federal Aviation Administration, \$898,524, “Purdue Airport Grant #37.”

Stansbury, Betty M; airport operations, from Federal Aviation Administration, \$1,350,000, “Strengthen Runway 10-28 and Rehabilitate Intersection with Runway 05-28 – Phase 2 (Construction); Install LED Airfield Signage (Phase 2 Construction) (Federal).”

Stauffer, Cynthia V; biological sciences, from University of Notre Dame, \$149,917, “Determination of Structure, Dynamics and Energetics of Enzyme Reactions.”

Strachan, Alejandro H; materials engineering, from Lawrence Livermore National Laboratory, \$73,633, “Optimal Orchestration of High-Fidelity Simulations in Multiscale Materials Models.” (a Discovery Park award – Birck Nanotechnology Center)

Stwalley, Robert M; agricultural & biological engineering, from GS Bridge Assistantships, \$28,586, “Smith, Ronald.”

Sudhoff, Scott D; electrical & computer engineering, from University of Illinois at Champaign-Urbana, \$26,998, “Armature Winding Design for a Superconducting Aircraft Propulsion Motor.”

Sun, Chin-Teh; aeronautical & astronautical engineering, from University of Missouri-Columbia, \$60,000, “Development of Elastic Metamaterials, Amendment 1 (Grant 107526).”

Sundaram, Neera J and Reid, Tahira; mechanical engineering, from National Science Foundation, \$300,000, “EAGER: Emotional Intelligence in Human-Machine User Interfaces.”

Swihart, Robert K and Michler, Charles H; forestry & natural resources, from U.S. Forest Service, \$111,000, “Hardwood Tree Improvement and Regeneration Center.”

Swihart, Robert K and Woeste, Keith E; forestry & natural resources, from U.S. Forest Service, \$3,357, “Genomic Analysis of Northern Long-Eared Bat.”

Swihart, Robert K; forestry & natural resources, from U.S. Forest Service, \$30,800, “Developing Resistant Stock and Restoring Butternut.”

Szpankowski, Wojciech; computer science, from National Science Foundation, \$16,000, “Research Experience for Undergraduates (REU) Supplement: Emerging Frontiers of Science of Information.” (a Discovery Park award – Discovery Park Administration)

Szpankowski, Wojciech; computer science, from National Science Foundation, \$16,000, “Research Experience for Undergraduates (REU) Supplement: Emerging Frontiers of Science of Information.” (a Discovery Park award – Discovery Park Administration)

Szpankowski, Wojciech; computer science, from National Science Foundation, \$16,000, “Research Experience for Undergraduates (REU) Supplement: Emerging Frontiers of Science of Information.” (a Discovery Park award – Discovery Park Administration)

Szpankowski, Wojciech; Aguilar, Ruben C; Gleich, David F; Grama, Ananth Y; Neville, Jennifer L; Ramkrishna, Doraiswami and Ward, Mark D; science – administration, biological sciences, computer science, chemical engineering, statistics, from National Science Foundation, \$2,500,000, “Emerging Frontiers of Science of Information.”

Szpankowski, Wojciech; computer science, from National Science Foundation, \$100,000, “Supplement: Undergraduate Research Workshop: Emerging Frontiers Science of Information.” (a Discovery Park award – Discovery Park Administration)

Talavage, Thomas M; electrical & computer engineering, from Indiana University Purdue University at Indianapolis, \$40,401, “Multi-Site Eval. of Role of Deep Brain Structures in Long-Term Neurological Disorder after Traumatic Brain Injury, Amendment 1; Grant 207924.”

Taleyarkhan, Rusi P; nuclear engineering, from U.S. Department of Homeland Security, \$189,005, “High Efficiency (X2 HE-3), Low-Cost / High Resolution Tmfd Based Mobile-Fixed Sensors (with <\$1/cc Materials; <3% Resolution) for Detection of Shielded SNMS.”

Tantama, Mathew C; chemistry, from PHS-NIH National Eye Institute, \$226,857, “Optical Tools to Study Neuropeptide Signaling.”

Tao, Weiguo A and Zhang, Dabao; biochemistry, statistics, from PHS-NIH National Institute of General Medical Science, \$297,113, “A Proteomic Platform to Identify and Validate Biomarkers in Metabolic Syndrome and Coronary Artery Disease.”

Taylor, Lynne S; industrial & physical pharmacy, from U.S. Department of Education, \$442,917, “Pharmaceutical Engineering 2015 Graduate Assistance in Areas of National Need (GAANN).”

Taylor, Lynne S; Galinsky, Raymond E and Simpson, Garth J; industrial & physical pharmacy, chemistry, from PHS-FDA Food and Drug Administration, \$500,000, “Formulation, Processing and Performance Interrelationships for Amorphous Solid Dispersions.”

Taylor, Lynne S; industrial & physical pharmacy, from Lilly Research Laboratories, \$265,000, “The Effect of Compound Aggregation on Drug Metabolism and Transport.”

Teegarden, Dorothy; health and human sciences, from United Student Aid Funds, Inc, \$15,000, “College of Health and Human Sciences Unrestricted Scholarship Fund.”

Teegarden, Dorothy; health and human sciences, from Individual Donors, \$30,000, “Matching Fund for Emerging Urban Leaders Scholarship.”

Ting, Wei-Tsyi E; biological sciences – Calumet campus, from Bills Produce Inc, \$1,660, “Microbial Quality of Freshly Cut Fruits Stored in Modified Atmosphere at 4 C for 28 Days.”

Tisdale, James E; Overholser, Brian R and Sowinski, Kevin M; pharmacy practice, from American Heart Association, \$143,000, “Influence of Testosterone Administration on Drug-Induced Qt Interval Prolongation and Torsades De Pointes.”

Tsoukalas, Lefteri and Alamaniotis, Miltiadis; nuclear engineering, from National Science Foundation, \$86,696, “Collaborative Research: EAGER-Dynamicdata: Machine Intelligence for Dynamic Data-Driven Morphing of Nodal Demand in Smart Energy Systemssmar.”

Tzempelikos, Athanasios; civil engineering, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc., \$10,000, “15-16 American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Grant-IN-Aid I. Konstantzos.”

Ukkusuri, Satish V; civil engineering, from Vietnam International Education Development, \$27,000, “Vietnam International Education Develop Fellowship for Tho Van Le.”

Vacca, Andrea; agricultural & biological engineering, from National Science Foundation, \$198,480, “PFI:AIR - TT: a Novel Concept for Variable Delivery Flow Units for Fluid Power Applications.”

Varma, Amit H; civil engineering, from National Institute of Standards & Technology, \$163,556, “Intergovernmental Personnel Assignment (IPA) for Selvarajah Ramesh.”

Volenec, Jeffrey J; Brouder, Sylvie M and Bracke, Marianne S; agronomy, library administration, from Agricultural Research Service, \$3,500, “Establishing a Distributed Agricultural Data Management and Repository Network.”

Volenec, Jeffrey J; Johnson, Keith D; Orvis, Kathryn S; Turco, Ronald F; Brouder, Sylvie M; Chaubey, Indrajeet and Martin, Chad A; agricultural & biological engineering, agronomy, youth development & agricultural education, earth & atmospheric sciences, from Iowa State University, \$502,435, “Sustainable Production and Distribution of Bioenergy for the Central USA.”

Voyles, Richard M; engineering technology, from National Science Foundation, \$39,750, “Workshop on the Science of Safety for High Consequence Materials.”

Vyn, Tony J; agronomy, from Mosaic Crop Nutrition LLC, \$5,000, "Agricultural Crop-ping Systems."

Vyn, Tony J and Omonode, Rex A; agronomy, from International Plant Nutrition Institute, \$39,893, "Relationships of Nitrous Oxide Emissions to Fertilizer Nitrogen Recovery Efficiencies in Rain-Fed and Irrigated Corn Production Systems: Data Review."

Vyn, Tony J and Omonode, Rex A; agronomy, from International Plant Nutrition Institute, \$132,809, "Relationships of Nitrous Oxide Emissions to Fertilizer Nitrogen Recovery Efficiencies in Rain-Fed Corn Systems: Research Foundation Building."

Wang, Xiuling; mechanical engineering – Calumet campus, from Los Alamos National Laboratory, \$27,058, "Continued Efforts for Developing KIVA-hpFE Package, Modification 2."

Ward, Mark D; Cheng, Guang; Christ, Sharon L; Chun, Hyonho; Craig, Bruce A; Doerge, Rebecca W; Viens, Frederi G; Wang, Xiao; Xie, Jun; Zhang, Hao and Zhang, Lingsong; statistics, child development & family studies, mathematics, forestry & natural resources, from National Science Foundation, \$288,511, "MCTP: Sophomore Transitions: Bridges into a Statistics Major and Big Data Research Experience."

Wassgren, Carl R; mechanical engineering, from Procter & Gamble Company, \$15,000, "P and G Voluntary Support."

Watts, Val J; medicinal chemistry & molecular pharmacology, from National Institutes of Health, \$446,858, "Understanding Adaptive Signaling of Neuronal Adenyly Cyclases Using Sirna."

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

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

Wells, Ellen M and Dydak, Ulrike; health sciences, from University of Michigan, \$20,000, "Impact of Welding Material and Exposure Controls on Manganese Exposure and Olfactory Function: a Natural Experiment."

Wendt, Michael K; medicinal chemistry & molecular pharmacology, from Indiana University, \$20,000, "Establishment of Differential Isoform Expression as a Biomarker for FGFR-Targeted Therapy."

Wendt, Oliver; speech, language and hearing sciences, from Purdue University, \$15,000, "1516 Entrepreneurial Leadership Academy Award." (a Discovery Park award – Burton D. Morgan Center)

Wilson, Christina R and Hammac, Gena K; comparative pathobiology, from PHS-FDA Food and Drug Administration, \$99,000, "Validation and Harmonization of Testing Methods for Bacterial and Chemical Adulterants in Biological Specimens and Pet Food."

Wilson, Steven R and Buzzanell, Patrice M; communication, from Lafayette Urban Enterprise Association, Inc., \$13,607, "Youth Ideas About Community Revitalization."

Wirth, Mary J; chemistry, from Li-Cor Biosciences, \$93,819, "Silica Colloidal Crystals for High Resolution Maldi-MS of Glycoproteins, Amendment 1."

Wlodarczyk, Jaroslaw; mathematics, from Binational Science Foundation, \$2,905, "Strong Semistable Reduction."

Wulle, Bernard W; aviation technology, from Coalition Salute Americas Hero, \$6,500, "Coalition to Salute Americas Heroes."

Yang, Won Sik; nuclear engineering, from National Academy for Nuclear Training, \$25,467, "Inpo National Academy for Nuclear Training Albert Hsieh."

Yang, Won Sik and Jung, Yeon Sang; nuclear engineering, from DOE-ER-Nuclear Energy, \$208,530, "Dev. of Steady-State Thermal-Hydraulic Analysis and Bowing Reactivity Eval. Methods Based on Neutron and Gamma Transport Calculations."

Yao, Yuan; food science, from Phytoption LLC, \$3,000, "Product Tests."

Yazawa, Kazuaki; electrical & computer engineering, from Nissan Chem Indus Ltd-Central Res Institute, \$12,062, "Thermal Device Technology Consulting." (a Discovery Park award – Birck Nanotechnology Center)

Ye, Peide; Xu, Xianfan and Zemlyanov, Dmitry Y; engineering administration engineering experiment, mechanical engineering, electrical & computer engineering, from National Science Foundation, \$500,000, "EFRI 2-Dare: Phosphorene, an Unexplored 2d High-Mobility Semiconductor." (a Discovery Park award – Birck Nanotechnology Center)

Yoder, Ryan M; psychology – Fort Wayne campus, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$425,639, "Otolith-Dependent Brain Functions in Mice."

Young, Bryan G; botany & plant pathology, from Wilbur-Ellis Company, \$9,100, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from United Suppliers Inc, \$12,950, "Multi Sponsored Gift Account."

Zhang, Xiangyu and Xu, Dongyan; computer science, from SRI International, \$98,413, "Transparent Computing."

Zhou, Chenn Q and Wu, Bin; Center for Innovation through Visualization & Simulation, from U.S. Steel Corporation, \$52,836, "Analysis of High PCI Rate for a Blast Furnace."

Ziaie, Babak; electrical & computer engineering, from Indiana University, \$7,001, "Uplink: Urinary Bladder Monitoring System." (a Discovery Park award – Birck Nanotechnology Center)

Zwier, Timothy S; chemistry, from National Science Foundation, \$490,400, "Single Conformation Spectroscopy and Dynamics of Multichromophore Networks." ■

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