

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

June 2017

Abbot to Bennett

Abbott, Angela R and Palmer, Laura A; agriculture – administration, health and human sciences, from Pennsylvania State University, \$3,355, “CYFAR Coach.”

Adeola, Olayiwola; animal sciences, from Mytech Technology Co., Ltd, \$98,000, “Response of Broiler Chickens to Graded Dietary Concentrations of Fortide.”

Adeola, Olayiwola; animal sciences, from Evonik Corporation, \$43,000, “Swine & Poultry Research – Evonik.”

Aggarwal, Vaneet; industrial engineering, from AT&T Foundation, \$20,000, “AT&T.”

Aime, Mary C; botany & plant pathology, from North America Mycological Association, \$3,340, “Aime Voluntary Support.”

Aime, Mary C; botany & plant pathology, from National Science Foundation, \$125,282, “CSBR: Natural History Collections: Essential Improvements for the Arthur Fungarium at Purdue University.”

Ajuwon, Kolapo; animal sciences, from AB Agri Limited, \$20,000, “Swine Research.”

Alexeenko, Alina; aeronautical & astronautical engineering, from Allergan, Inc, \$10,000, “Lyohub Consortium.”

Allan, Blake A; educational studies, from Kinley Trust, \$20,000, “Moderators of Underemployment and Mental Health: A Longitudinal Study.”

Anderson, Theresa M; Plaut, Karen I and Townsend, Jonathan R; animal sciences, agriculture – administration, veterinary clinical science, from National Institute of Food & Agriculture, \$483,000, “Role of Circadian Timing System in Dry Period Mammary Development, Ketotic Index, and Milk Production in Transition Dairy Cattle.”

Anderson, William E; aeronautical & astronautical engineering, from University of Michigan, \$154,646, “Multi-Fidelity Modeling of Rocket Combustor Dynamics.”

Anderson, William E; Huang, Cheng and Sardeshmukh, Swarnand V; aeronautical & astronautical engineering, from Hypercomp Inc, \$9,998, “Spray Model Implementation into Gems.”

Anderson, William E; aeronautical & astronautical engineering, from ATA Engineering Inc, \$40,000, “Detailed Multiphysics Propulsion Modeling & Simulation through Coordinated Massively Parallel Frameworks.”

Ardekani, Arezoo M; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$30,107, “Kumar, Manish.”

Arling, Gregory W and Abrahamson, Kathleen A; nursing, from University of Minnesota, \$79,277, “Evaluation of Minnesota CCA Initiatives – Amendment to Subcontract.”

Armstrong, S D; English, from Ross Graduate Fellowship-Assistantship, \$21,224, “Iacocca, Vanessa.”

Armstrong, S D; English, from Ross Graduate Fellowship-Assistantship, \$21,224, “West, Brandon.”

Armstrong, Shalamar D and Casteel, Shaun N; agronomy, from Indiana Soybean Alliance, \$33,574, “Tracking Cereal Rye Nitrogen Release through Soil Pools and Cash Crop Uptake.”

Armstrong, Shalamar D and Casteel, Shaun N; agronomy, from Indiana Corn Marketing Council, \$33,574, “Tracking Cereal Rye Nitrogen Release through Soil Pools and Cash Crop Uptake.”

Bailey, Regan K; Bhadra, Anindya and Eicher-Miller, Heather A; foods & nutrition, statistics, from PHS-NIH National Cancer Institute, \$366,970, “Development of a Total Nutrient Index.”

Baributsa, Dieudonne; entomology, from Paige Ebner, \$250, “PICS Voluntary Support.”

Bartlett, Edward L and Shi, Riyi; biomedical engineering, basic medical science, from Indiana State Department of Health, \$160,000, “Diagnostic and Mechanistic Assessment of Blast Injury and Auditory System Function Leading to Treatment Targets.”

Beaman, Jean M; sociology, from Kinley Trust, \$20,000, “From Ferguson to France: Understanding Blacklivesmatter in France.”

Beaulieu, Lionel J; Track Express-Center for Regional Development, from University of Texas – Pan American, \$9,500, “Multi-Sponsored Account (Purdue Center for Regional Development [PCRD]).”

Beaulieu, Lionel J; Track Express-Center for Regional Development, from U.S. Department of Agriculture, \$2,000, “Multi-Sponsored Account (Purdue Center for Regional Development [PCRD]).”

Beaulieu, Lionel J; Office of Engagement, from University of North Alabama, \$8,000, “Multi-Sponsored Account (Purdue Center for Regional Development [PCRD]).”

Beckerman, Janna L; botany & plant pathology, from BASF Corporation, \$9,936, “BASF Fungicide Trial.”

Benjamin, Tamara J; Velasquez, Juan D and Stuart, Jeffrey J; horticulture & landscape architecture, engineering administration engineering experiment, entomology, from Foreign Agricultural Service, \$102,050, “Gaining a Better Understanding of the Colombian Cacao Supply Chain.”

Bennett, Gary W; entomology, from Purdue Doctoral Program, \$30,386, “Rodriques, Aaron.”

Bertino to Chandrasekar

Bertino, Elisa; computer science, from IBM, \$80,151, “IBM DAISITA.”

Bertino, Elisa; computer science, from Schlumberger Foundation, \$1,200, “Schlumberger Foundation Faculty for the Future Program Fellowship for Shagufta Mehnaz (208534).”

Bertino, Elisa and **Foreman, James C**; Center for Education and Research in Information Assurance and Security (CERIAS), from Raytheon, \$70,000, “Survey of Countermeasures in Mission Critical Systems.”

Bertolet, Rodney J; philosophy, from Winifred B. Bilsland Endowment, \$19,224, “Fuqua, Jonathan.”

Bertolet, Rodney J; philosophy, from Purdue University F N Andrews Fellowship, \$21,224, “Linford, Daniel.”

Bertolet, Rodney J; philosophy, from Purdue University F N Andrews Fellowship, \$23,224, “Swan, Melanie.”

Bertolet, Rodney J; philosophy, from Purdue Doctoral Program, \$25,224, “Perry, Donald.”

Bigelow, Cale A; horticulture & landscape architecture, from Holganix, LLC, \$2,000, “Putting Greens Research.”

Bofferding, Laura C; curriculum and instruction, from National Science Foundation, \$23,740, “Faculty Early Career Development (CAREER): Leveraging Contrasting Cases to Explore Integer Understanding Supplement.”

Bofferding, Laura C; curriculum and instruction, from National Science Foundation, \$139,618, “Faculty Early Career Development (CAREER): Leveraging Contrasting Cases to Investigate Integer Understanding.”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships, from Purdue University, \$24,778, “iCHEER: Institute for Continual Hub Enabled Education & Research.”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships, from Purdue Research Foundation, \$10,400, “FY17-18 Summer Faculty Grants.”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships, from Purdue University, \$25,136, “iCHEER: Institute for Continual Hub Enabled Education & Research.”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships, from Purdue University, \$617, “16-17 EVPRP Laboratory & University Core Facilities Research Equipment Program.”

Boltasseva, Alexandra; electrical & computer engineering, from Air Force Office of Scientific Research, \$15,000, “CMOS-Compatible Plasmonics for Hybrid Nanophotonic Circuits.” (a Discovery Park award – Birk Nanotechnology Center)

Bolton, J S; mechanical engineering, from Institute for Noise Control Engineering, \$1,000, “INCE UG Student Project.”

Bouman, Charles A; electrical & computer engineering, from Lockheed Martin Corp., \$40,000, “Attention Tracking and Anticipation.”

Bouman, Charles A; electrical & computer engineering, from Universal Technology Corporation, \$12,000, “The Use of Physics Modeling for Fusion and Inversion of Image Data at Multiple Acquisition Resolutions; Amendment 2, Grant 108456.”

Brouder, Sylvie M; **Volenc, Jeffrey J**; **Chaubey, Indrajeet** and **Turco, Ronald F**; agronomy, agricultural & biological engineering, agriculture – administration, from National Institute of Food &

Agriculture, \$498,000, “Cover Cropping for Sustainable Co-Production of Bioenergy, Food, Feed (BFF) and Ecosystem Services (ES).”

Brush, Thomas H; management, from Ross Graduate Fellowship-Assistantship, \$16,356, “Emery, Logan.”

Brush, Thomas H; management, from Ross Graduate Fellowship-Assistantship, \$16,356, “Chen, Zhaojing.”

Bullock, Darcy M; civil engineering, from ITE Great Lakes District, \$500, “Joint Transportation Research Program (JTRP) Supplementary Research Account.”

Cabot, Birgit and **Hall, Mark C**; animal sciences, biochemistry, from Showalter Trust, \$73,480, “Chromatin Remodeling and Embryonic Origins of Adult Disease.”

Caffee, Marc W; physics, from National Science Foundation, \$708,000, “Facility Support: Accelerator Mass Spectrometry at Prime Lab.”

Calve, Sarah; biomedical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$19,421, “Bioorthogonal Labeling of Extracellular Matrix Assembly.”

Campanella, Osvaldo H; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$10,724, “Fei, Xing.”

Campbell, Wayne W; foods & nutrition, from Winifred B. Bilsland Endowment, \$21,188, “Wright, Christian.”

Cannon, Jason R and **Rochet, Jean-Christophe**; health sciences, medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Environment Health Science, \$333,365, “Mechanisms of Phip-Induced Dopaminergic Neurotoxicity.”

Cassens, Daniel L; forestry & natural resources, from Indiana Hardwood Lumbermens Assn., \$1,556, “Multi Sponsored.”

Casteel, Shaun N; agronomy, from Agricultural Research Service, \$17,999, “Evaluation of Yield, Disease Resistance and Quality Traits of Soybean Breeding Lines.”

Casteel, Shaun N; agronomy, from Tessengerlo Kerley Inc, \$10,000, “Soybean Extension Research.”

Catlin, Ann C; **Pujol, Santiago**; **Alam, Muhammad A**; **Sepulveda, Maria S** and **Weaver, Connie M**; ITaP Research Computing, civil engineering, electrical & computer engineering, forestry & natural resources, foods & nutrition, from National Science Foundation, \$3,456,281, “CIF21 DIBBs: EI: Creating a Digital Environment for Enabling Data-Driven Science (DEEDS).”

Chan, Stanley H; electrical & computer engineering, from National Science Foundation, \$480,947, “CIF: Small:Signal Processing for Quanta Image Sensors: Reconstruction, Sampling, and Applications.”

Chan, Stanley H; electrical & computer engineering, from HypeVR, \$104,386, “Image Processing for Virtual Reality Systems.”

Chandrasekar, Srinivasan; **Mann, James B**; **Viswanathan, Koushik**; **Bahr, David F** and **Trumble, Kevin P**; industrial engineering, materials engineering, from Department of the Army, \$129,031, “Large-Area Optical Surface Profilometry for Advanced Manufacturing and Materials Processing.”

Chandrasekar, Srinivasan; **Sudhoff, Scott D** and **Trumble, Kevin P**; industrial engineering, electrical & computer engineering, materials engineering, from U.S. Department of Energy, \$1,320,000, “High-Silicon Steel Strip by Single-Step Shear Deformation Processing.”

Chang to Crossley

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$20,000, “Fy18 Indiana University School of Medicine (IUSM)-Fort Wayne Dr. Leslie Hoffman Start-Up Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$24,763, “Fy17-18 Indiana University School of Medicine (IUSM)-Fort Wayne Student Activity Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$25,000, “FY 18 Indiana University School of Medicine (IUSM)-Fort Wayne Equipment Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$24,763, “Fy17-18 Indiana University School of Medicine (IUSM)-Fort Wayne Student Technology Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$25,000, “Fy18 Indiana University School of Medicine (IUSM)-Fort Wayne Program Development Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$10,000, “Fy2017-18 Cns Tissue Bank Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$110,000, “Fy17-18 Indiana University School of Medicine (IUSM)-Fort Wayne Host Campus Fees.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$900,000, “Fy17-18 Indiana University School of Medicine (IUSM)-Fort Wayne General Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$10,000, “Fy17-18 Indiana University School of Medicine (IUSM)-Fort Wayne Life Cycle Fund.”

Chang, Fen-Lei F; medical education – Fort Wayne campus, from Indiana University, \$25,000, “Fy18 Indiana University School of Medicine (IUSM)-Fort Wayne Research Fund.”

Chavas, Daniel R; earth & atmospheric sciences, from Purdue University F N Andrews Fellowship, \$30,386, “Simmons, Shawn.”

Chen, Jun; mechanical engineering, from United Technologies Carrier Corporation, \$120,440, “PIV Testing of a Residential Gas Furnace.”

Chen, Jun; mechanical engineering, from Midea Group, \$501,759, “Innovation Design of Range Hood.”

Chen, Qingyan; mechanical engineering, from Purdue University F N Andrews Fellowship, \$33,030, “Shi, Zhu.”

Chen, Qingyan; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$29,244, “Baraya, Kalind.”

Chen, Qingyan; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$30,107, “Lu, Zechao.”

Chen, Yan; mechanical engineering, from Winifred B. Bilsland Endowment, \$21,224, “You, Ruoyu.”

Chen, Yong P; electrical & computer engineering, from National Science Foundation, \$210,000, “Collaborative Research: Strain Based Devices for Switches and Memory Applications.” (a Discovery Park award – Birck Nanotechnology Center)

Chen, Zhixiang; botany & plant pathology, from National Science Foundation, \$185,971, “A Novel Selective Autophagy Pathway in Plant Immune Responses to Necrotrophic Pathogens.”

Cheng, Gary J and Zhao, Kejie; industrial engineering, mechanical engineering, from National Science Foundation, \$50,000, “EAGER:

Laser Condensation of Graphene/Silicon Nanoparticles for Enhanced Electro Chemical Properties.”

Choi, Jong Hyun and Mao, Chengde; mechanical engineering, chemistry, from Office of Naval Research, \$149,439, “Toward Versatile Synthetic DNA Walkers.”

Chopra, Gaurav and Ratliff, Timothy L; Purdue Institute of Drug Discovery, Cancer Research Center, from Showalter Trust, \$75,000, “Multi-Target Potent Synthetic Leads for Castration Resistant Prostate Cancer.”

Chopra, Gaurav; Cancer Research Center, from Purdue University, \$30,000, “Differential Nuclear Hormone Receptor Modulators Combat Castration Resistant Prostate Cancer.”

Chubykin, Alexander A; biological sciences, from Showalter Trust, \$75,000, “Theta Oscillations in Visual Cortex of Alzheimer’s Disease Mice.”

Clawson, Rosalee A; political science, from Winifred B. Bilsland Endowment, \$19,224, “Kulisza, Christopher.”

Cole, Connie S; health & human services – Fort Wayne campus, from National Family Plan & Reproductive Health Association, \$1,000, “Indiana University-Purdue University Fort Wayne (IPFW) Lafayette Street Family Health Clinic.”

Collicott, Steven H; aeronautical & astronautical engineering, from Keystone Engineering Company, \$25,743, “Liquid Capillary Properties Measurement.”

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$240,000, “Steel Bridge Research, Inspection, Training and Education Engineering Center – S-Brite.”

Cooks, Robert G; Thompson, David H; Barker, Eric L; Grama, Ananth Y and Nagy, Zoltan; chemistry, medicinal chemistry & molecular pharmacology, computer science, chemical engineering, from Defense Advanced Research Projects Agency, \$1,121,444, “Analytic-Directed Multi-Scale Synthesis System.” (a Discovery Park award – Bindley Bioscience Center)

Cooks, Robert G; chemistry, from Eastman Chemical Company, \$1,000, “Pfizer Analytical Chem Fellowship.”

Cooper, Harold K and Pike, Matthew D; anthropology, from National Science Foundation, \$18,893, “Doctoral Dissertation Research: Northern Innovation: Modelling Copper Technologies.”

Cramer, William A; biological sciences, from PHS-NIH National Institute of General Medical Science, \$40,527, “Trans-Membrane Signaling in the Cytochrome b6f Lipoprotein Complex.”

Crawford, Melba M; agronomy, from Purdue University F N Andrews Fellowship, \$33,030, “Peng, Bo.”

Crossley, William A; Fanjoy, Richard O; Helie, Sebastien; Johnson, Mary E; Landry, Steven J and Wang, Haifeng; aeronautical & astronautical engineering, aviation technology, psychological science, industrial engineering, from Federal Aviation Administration, \$42,397, “Project #19: Center of Excellence Student Outreach.”

Crossley, William A; Fanjoy, Richard O; Helie, Sebastien; Johnson, Mary E; Landry, Steven J and Wang, Haifeng; aeronautical & astronautical engineering, aviation technology, psychological science, industrial engineering, from Federal Aviation Administration, \$4,276, “Project #19: Center of Excellence Student Outreach, Amendment 52; Grant 108314.”

Crossley to Finley

Crossley, William A; Fanjoy, Richard O; Helie, Sebastien; Johnson, Mary E; Landry, Steven J and Wang, Haifeng; aeronautical & astronautical engineering, aviation technology, psychological science, industrial engineering, from Federal Aviation Administration, \$11,007, "Project #19: Center of Excellence Student Outreach, Amendment 53; Grant 108314."

Dabiri, Sadegh; agricultural & biological engineering, from Purdue University F N Andrews Fellowship, \$33,030, "Ganesh, Maathangi."

Davis, Susan B; Office of Engagement, from Multi-Sponsored Industrials, \$10,000, "Hh Small Business Development Center (SBDC) Multi Sponsor Account (205027)."

Deemer, Eric D; educational studies, from National Science Foundation, \$376,449, "Collaborative Research: Identity Development Evaluation of African American Students (IDEAAS): A Longitudinal Investigation."

Deering, Amanda J; food science, from Clabber Girl, \$400, "Multi Sponsored Gift Account."

Deering, Amanda J; food science, from Madison Chemical Company Inc, \$2,400, "Determination of the Antimicrobial Properties of Various Floor Powders on Stainless Steel Surfaces."

Deering, Amanda J and Maynard, Elizabeth T; food science, horticulture & landscape architecture, from Iowa State University, \$8,000, "Strategy for Successful Implementation of FSMA in the North Central Region through Adoption of a Systems Approach and Stakeholder Engagement Framework; Amendment 1, (Grant 108390)."

Deering, Amanda J; food science, from Indiana State Department of Health, \$100,000, "State & Territory Cooperative Agreement to Enhance Produce Safety in Preparation of Implementation of FDAs Rule; Amendment 1, Grant 209527."

DeLaurentis, Daniel A; Grant, Michael J and Schneider, Steven P; aeronautical & astronautical engineering, from Science Applications International, \$105,000, "TI-04 Conventional Prompt Strike (CPS) – Modification #2."

DeLaurentis, Daniel A; Grant, Michael J and Schneider, Steven P; aeronautical & astronautical engineering, from Science Applications International, \$14,000, "TI-04 Conventional Prompt Strike (CPS)."

Delp, Edward J; electrical & computer engineering, from Curtin University of Technology, \$3,378, "Computer-Tailoring Using the TADA Software Tools."

Deng, Meng and Kuang, Shihuan; agricultural & biological engineering, animal sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$74,589, "Engineering a Biomaterial Niche of Satellite Cells for Skeletal Muscle Regeneration."

DeWoody, James A; forestry & natural resources, from Texas A&M University, \$7,500, "Montezuma Quail Genomics."

Diaz De La Rubia, Tomas J; Executive Vice President for Research & Partnerships, from Indiana Economic Development Corporation, \$250,000, "Transportation Research and Development District Study."

Doerge, Rebecca W; statistics, from Purdue Doctoral Program, \$14,230, "Gonzalez, Tracy B."

Dydak, Ulrike; health sciences, from PHS-NIH National Institute of Environment Health Science, \$43,576, "Multimodal Neuroimaging Approaches to Modeling Manganese Toxicity."

Edwards, Nancy E; Foli, Karen J; Ross, Karla C and McComb, Sara A; nursing, from PHS-Hrsa National Center for Health Servs Res, \$685,922, "Advanced Nursing Workforce Education."

El-Azab, Anter A; materials engineering, from Bechtel Bettis, Inc., \$112,701, "Continuum Dislocation Dynamics Simulations of Austenitic Stainless Steel Under Cyclic Loading."

Elliott, Julie L; earth & atmospheric sciences, from National Science Foundation, \$39,906, "Geodetic Characterization of the Easternmost Alaska Subduction Zone."

Elliott, Stephen J and Oconnor, Kevin J; industrial technology, from Keylemon, \$31,297, "Keylemon – Face Data Collection."

Engel, Bernard A; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$21,224, "Chen, Jingqiu."

Erk, Kendra A; Oliver, Haley F and Martinez, Carlos J; materials engineering, food science, from Showalter Trust, \$71,520, "Optimization of Organic Antimicrobial Nanoemulsions for Increased Beverage Shelf-Life."

Farkas, Brian E; food science, from Gehl Food, \$4,000, "Pilot Plant Multi-Sponsored Gift."

Farkas, Brian E; food science, from Holic LLC, \$400, "Pilot Plant Multi-Sponsored Gift."

Farkas, Brian E; food science, from Fulfill Food & Beverages LLC, \$1,000, "Pilot Plant Multi-Sponsored Gift."

Farkas, Brian E; food science, from Conagra Food Ingredients Co., \$8,000, "Pilot Plant Multi-Sponsored Gift."

Fentiman, Audeen W; engineering education, from Winifred B. Bilsland Endowment, \$20,188, "Ramirez, Nichole."

Fernandez-Juricic, Esteban and Lucas, Jeffrey R; biological sciences, from U.S. Department of Energy, \$300,000, "Understanding the Golden Eagle Sensory World to Enhance Detection and Response to Wind Turbines."

Ferraro, Kenneth F; sociology, from Ross Graduate Fellowship-Assistantship, \$23,209, "Bruster, Laura-Elizabeth."

Field, William E; agricultural & biological engineering, from South by Sea, \$122, "Breaking New Ground."

Figueiredo, Marxa L; basic medical science, from PHS-NIH National Cancer Institute, \$35,065, "Disrupting Tumor/Bone Malignant Interactions with Multifunctional Cytokine Sonodelivery."

Finley, John P; physics, from Ross Graduate Fellowship-Assistantship, \$19,044, "Chen, Yu-Hsin."

Finley, John P; physics, from Purdue University F N Andrews Fellowship, \$19,044, "Wang, Yuchen."

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$11,751, "He, Yifei."

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$11,715, "Varennnes, Julien."

Finley, John P; physics, from Ross Graduate Fellowship-Assistantship, \$19,044, "Saha, Soutick."

Finley, John P; physics, from Purdue University F N Andrews Fellowship, \$18,523, "Lyu, Changyuan."

Flaherty to Granger

Flaherty, Elizabeth A and **Creighton, John C**; forestry & natural resources, biological sciences – Calumet campus, from Nantucket Biodiversity Initiative, \$1,044, “Evaluating the Carrion Base of Burring Beetle Communities on Nantucket Island Using Stable Isotopes.”

Foster, Kenneth A; agricultural economics, from Ross Graduate Fellowship-Assistantship, \$28,586, “Opgrand, Jeffrey.”

Frankenberger, Jane R; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$21,224, “Saadat, Samaneh.”

Freed, Andrew M; earth & atmospheric sciences, from National Science Foundation, \$124,087, “Collaborative Research: Multi-Scale Models of Subduction Zone Earth-Quake Cycle Observations.”

French, Doran C; child development & family studies, from Winifred B. Bilsland Endowment, \$21,824, “Marshall, Mary.”

Frisbee, Marty D; earth & atmospheric sciences, from David M. Knox Endowment, \$21,224, “Slick, Derrick.”

Gallant, Kathleen H; foods & nutrition, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$138,109, “Phosphorus Absorption and Balance in Normal Physiology and Chronic Kidney Disease.”

Garcia, R Edwin; materials engineering, from Applied Materials, \$70,000, “Garcia – Applied Material.”

Garimella, Suresh V; mechanical engineering, from Purdue University, \$29,526, “Fy16-17 NIH New R01 Program.”

Garimella, Suresh V; Executive Vice President for Research & Partnerships, from Eli Lilly and Company, \$2,000,000, “Lilly Planning Grant.”

Garimella, Suresh V; mechanical engineering, from AavidThermalloy, \$7,500, “Cooling Technologies Research Center (CTRC) Membership – Memo Match for 106029.”

Garimella, Suresh V; mechanical engineering, from AavidThermalloy, \$7,500, “Cooling Technologies Research Center (CTRC) Membership – Memo Match for 106029.”

Gelvin, Stanton B; biological sciences, from Tuskegee University, \$90,000, “Exploring Next Generation Sweetpotato Breeding with CRISPR Associated Proteins.”

Gelvin, Stanton B and **Lee, Lan-Ying**; biological sciences, from National Science Foundation, \$1,467,146, “TRANSFORM-PGR: Manipulating Agrobacterium-Mediated Transformation and T-DNA Integration for Plant Synthetic Biology and Genome Engineering.”

Gentry, Marcia L; **Hontani, Yukiko**; **Paul, Kristina** and **Richardson, Jennifer C**; educational studies, curriculum and instruction, from U.S. Department of Education, \$494,519, “Developing Talents and Improving Student Achievement Among Traditionally Underrepresented Populations.”

Gentry, Marcia L; educational studies, from Jack Kent Cooke Foundation, \$50,000, “Equity of Student Populations Identified as Gifted by Race, Rurality, Income, and Ell Status Across the United States and by State: An Analysis of the Office of Civil Rights Data from 2000 to Present.”

Gepner, David J; mathematics, from National Science Foundation, \$185,376, “Derived Geometry, Elliptic Cohomology, and Loop Stacks.”

Gerber, Corey K; agronomy, from Co-Alliance, \$2,350, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Certified Crop Advisors, \$4,688, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Pioneer Hi-Bred International, Inc., \$4,375, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Seed Trade Association, \$3,750, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Pioneer Hi-Bred International, Inc., \$1,875, “Crop Diagnostic Training and Research Center.”

Gibson, Kevin D; botany & plant pathology, from Indiana State Department of Agriculture, \$750, “Reimbursement for New or Continuing Organic Certification.”

Ginzel, Matthew D; entomology, from U.S. Forest Service, \$53,945, “Scolytine Beetles Colonizing TCD Symptomatic Jugulars Nigra.”

Gitau, Margaret W; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$21,224, “Mehan, Sushant.”

Gleich, David F; **Grama, Ananth Y** and **Sameh, Ahmed H**; computer science, from U.S. Department of Energy, \$261,789, “Fault Oblivious Computations.”

Gleich, David F; computer science, from Stanford University, \$32,619, “Miner: Multimodal Networks: a General Representational Language Applied to Bio-Medical Hypothesis Generation and Validation, Amendment 8; (Grant 107796).”

Gletsu-Miller, Nana A; **Ajuwon, Kolapo** and **Delp, Edward J**; foods & nutrition, animal sciences, electrical & computer engineering, from Showalter Trust, \$75,000, “Translational Studies on the Effects of Dietary Fats on Glycemia and Insulin Action.”

Gletsu-Miller, Nana A; foods & nutrition, from Matthews, Destiny, \$391, “Nana Gletsu-Miller.”

Goins, Edray H and **Peterson, Jonathon R**; mathematics, from National Science Foundation, \$76,987, “Research Experience for Undergraduates (REU) Site: Purdue Research in Mathematics Experience (PRIME).”

Goni Cortes, Joaquin; industrial engineering, from Indiana University, \$9,068, “An Integrative Bioinformatics Framework for Human Brain Genomics and Connectomics, Amendment 2; Grant 108624.”

Goni Cortes, Joaquin; industrial engineering, from Indiana University, \$81,609, “An Integrative Bioinformatics Framework for Human Brain Genomics and Connectomics; Amendment 1; Grant 108624.”

Gonzalez, Marcial and **Pai, Dhananjay A**; mechanical engineering, from Bridgestone/Firestone, Inc., \$1,450, “Compression Testing of Viscomax Memory Foam.”

Gore, Jay P; mechanical engineering, from Purdue Doctoral Program, \$33,030, “Deneke, Elihu.”

Gowher, Humaira; biochemistry, from American Heart Association, \$231,000, “Control of Antiangiogenic Gene Expression by Vezf1-Mediated Pol II Pausing.”

Granger, Darryl E; earth & atmospheric sciences, from National Science Foundation, \$154,393, “Dating the Cenozoic Incision History of the Tennessee and Shenandoah Rivers with Cosmogenic Nuclides and ⁴⁰Ar/³⁹Ar in Manganese Oxides.”

Gray to Holford

Gray, Nicholas W; diversity and multicultural affairs – Fort Wayne campus, from U.S. Department of Education, \$257,500, “Indiana University-Purdue University Fort Wayne (IPFW) Upward Bound I.”

Gray, Nicholas W; diversity and multicultural affairs – Fort Wayne campus, from U.S. Department of Education, \$257,500, “Indiana University-Purdue University Fort Wayne (IPFW) Upward Bound II.”

Groll, Eckhard A and **Weibel, Justin A**; mechanical engineering, from Oak Ridge National Laboratory, \$82,206, “Advanced Manufacturing of a Linear Compressor for Isothermal-Compression.”

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship-Assistantship, \$21,224, “Tuller, Sydney.”

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship-Assistantship, \$21,224, “Nava, Stephanie.”

Gruenbaum, Ellen R; anthropology, from Purdue University F N Andrews Fellowship, \$21,224, “Torquato, Melissa.”

Guan, Wenjing; horticulture & landscape architecture, from United Agriseeds, \$350, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Valent U.S.A. Corporation, \$7,000, “Chris Gunter General Research Activities.”

Guptill-Yoran, Carolyn F; veterinary clinical science, from Morris Animal Foundation, \$5,000, “Innovative Approaches to the Treatment of *Bartonella* Infections.”

Guzey, Siddika; **Clase, Kari L**; **Menekse, Muhsin** and **Bryan, Lynn A**; curriculum and instruction, industrial technology, engineering education, from National Science Foundation, \$901,341, “LifeSTEM: The Integration of Engineering Design and Life Science: Investigating the Influence of an Intervention on Student Interest and Motivation in Science, Technology, Engineering & Mathematics (STEM) Fields.”

Habib, Ayman F; civil engineering, from Ross Graduate Fellowship-Assistantship, \$31,599, “Ayman Habib.”

Haddock, John E; civil engineering, from Ross Graduate Fellowship-Assistantship, \$28,792, “Montgomery, Sharlan.”

Hall, Mark C; biochemistry, from Summer Science Program, \$5,500, “Summer Science Program.”

Halum, Stacey L and **Harbin, Sherry L**; speech, language & hearing sciences, basic medical science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$430,922, “Muscle Progenitor Cell-Based Implants for Dynamic Laryngeal Muscle Reconstruction.”

Hamaker, Bruce R; food science, from Ross Graduate Fellowship-Assistantship, \$33,114, “Jackson, Rachel.”

Hamilton, Roy L and **Beamon, Yolanda H**; Education Opportunities Program – Calumet campus, from U.S. Department of Education, \$562,380, “Purdue University Northwest Upward Bound Program.”

Harris, Jason T; health sciences, from Colorado State University, \$1,000, “Radiation Protection Research Needs Workshop – Enhancing Radiation Protection Education and Research Between Colorado State University and Purdue University.”

Harshvardhan, Anand; WBAA, from Winifred B. Bilsland Endowment, \$11,224, “Dow Agro Sciences (DAS), Sampa.”

Hartman, Nathan W; computer graphics technology, from Rockwell Collins, \$50,000, “Product Lifecycle Management Center of Excellence (PLM).”

Heeg, Marlene O; pharmacy – administration, from Sanofi-Aventis, \$175,000, “Managing Type 2 Diabetes: the Role of Insulin.”

Heeg, Marlene O; pharmacy – administration, from Ucb, Inc., \$30,000, “In Pursuit of a Moving Target: Optimizing Outcomes in All Patients with Crohns Disease.”

Heeg, Marlene O; pharmacy – administration, from Allergan, Inc, \$479,486, “2017 GiHF IBS Prime CME/CE Educational Initiative.”

Heeg, Marlene O; pharmacy – administration, from Pfizer Inc, \$182,140, “Title Demystifying Biosimilars for the US-Based Medical, Pharmacy and Formulary Directors.”

Henry, Madeleine M; foreign language & literature, from Ross Graduate Fellowship-Assistantship, \$21,224, “Morita, Yumiko.”

Henry, Madeleine M; foreign language & literature, from Winifred B. Bilsland Endowment, \$19,224, “Hakobyan, Liama.”

Henry, Madeleine M; foreign language & literature, from Purdue University F N Andrews Fellowship, \$19,425, “Kang, Minji.”

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

Hertel, Thomas W; agricultural economics, from World Bank, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

Hertel, Thomas W; agricultural economics, from University of Hohenheim, \$20,415, “Global Trade Analysis Project (GTAP) Consortium.”

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

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

Hertel, Thomas W; agricultural economics, from OECD Development Center, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

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

Hirst, Peter M; horticulture & landscape architecture, from Winifred B. Bilsland Endowment, \$20,189, “Elsysy Mokles, Ahmed Mokles.”

Hogenesch, Harm; veterinary medicine – administration, from National Science Foundation, \$50,000, “Novel Alpha-D-Glucan Nanoparticles for Vaccines.”

Holford, Kenneth C; engineering, math & science – Calumet campus, from U.S. Forest Service, \$81,868, “Urban Waters Partnership in Northwest Indiana.”

Hook to Kissinger

Hook, Tomas O and **Archer, Angela S**; Illinois-Indiana Sea Grant Program, from University of Illinois at Champaign-Urbana, \$7,000, “2014-2018 IL in Sea Grant Omnibus.”

Hook, Tomas O and **Archer, Angela S**; Illinois-Indiana Sea Grant Program, from University of Illinois at Champaign-Urbana, \$5,862, “2014-2018 IL in Sea Grant Omnibus – Omnibus Salary Supplement.”

Horgan, Briony H; earth & atmospheric sciences, from Lowell Observatory, \$10,524, “Determining the Distribution of Martian Chlorine Salts; Amendment 1, Grant 108432.”

Howell, Kathleen; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “Targeting, Guidance and Proximity Operations Near Small Bodies and Complex Multi-Body Regimes.”

Hu, Changdeng; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$547,569, “Role and Targeting of PRMT5 in Prostate Cancer.”

Hu, Jingwei; mathematics, from National Science Foundation, \$75,465, “Fast Algorithms for Nonlinear Kinetic Models.”

Hu, Y Charlie and **Midkiff, Samuel P**; electrical & computer engineering, from National Science Foundation, \$475,000, “Computer Systems Research (CSR): Small: Extending Smartphone Battery Life VI Prescriptive Energy Profiling.”

Hudmon, Karen S; pharmacy practice, from National Institutes of Health, \$314,264, “Standardized Patients to Assess Competency in Tobacco Cessation Counseling.”

Hung, Chen-Lung; physics, from Air Force Office of Scientific Research, \$128,554, “Long-Range Quantum Magnetism in Atom-Nanophotonic Hybrid Lattices.”

Hurt, R D; history, from Ross Graduate Fellowship-Assistantship, \$21,224, “Walkama, Annalise.”

Hystad, Grethe; mathematics, computer science & statistics – Calumet campus, from Carnegie Institution of Washington, \$17,327, “Statistical Analysis of Mineralogical Data.”

Ileleji, Klein; agricultural & biological engineering, from Foreign Agricultural Service, \$131,138, “Technical Support to the Nigeria Capacity Building Program on Stored Commodities.”

Irazaqui, Pedro; biomedical engineering, from Bionode LLC, \$10,000, “Fabrication of Ocular Stimulators.”

Irfanoglu, Ayhan; civil engineering, from Purdue Doctoral Program, \$33,030, “Broberg, Morgan Renee.”

Irfanoglu, Ayhan; civil engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, “Huang, Yu-Ting.”

Ivantysynova, Monika; agricultural & biological engineering, from Danfoss, \$15,000, “Kalamazoo Community Foundation.”

Iyer, Ananth V and **Berenguer Falguera, Gemma**; management, from European Union, \$618,965, “Consistently Optimised Resilient Secure Global Supply-Chains Core.”

Jacobs, Douglass F; forestry & natural resources, from Chris J or Tonia J Fischer, \$275, “Voluntary Support – American Chestnut.”

Jafvert, Chad T; civil engineering, from Winifred B. Bilsland Endowment, \$21,188, “Irawati, Utami.”

Jin, Jian; agricultural & biological engineering, from University of Nebraska, \$21,659, “High through Put Phenotyping to Accelerate Biomass Sorghum Improvement.”

Johnson, Carla J and **Guzey, Siddika**; education-administration, curriculum & instruction, from Indiana Department of Education, \$83,019, “Avon-Purdue Math and Science Partnership Program.”

Johnson, William G; botany & plant pathology, from Multi-Sponsored Industrials, \$500, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Valent U.S.A. Corporation, \$26,600, “Weed Science Research Voluntary Support.”

Jones, Owen G; **Campanella, Osvaldo H** and **Hamaker, Bruce R**; food science, agricultural & biological engineering, from National Institute of Food & Agriculture, \$361,237, “Replacing Gluten in Bread Doughs by Utilizing Fibrous, Non-Wheat Protein Assemblies.”

Jones, Timothy M; physics, from University of Notre Dame, \$3,750, “QuarkNet at Purdue University.”

Jung, Byunghoo; electrical & computer engineering, from Nextturn Company Ltd, \$444,164, “High Precision Position Tracking System for Heart Shape Mapping During Heart Surgery.”

Karava, Panagiota; civil engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, “Kim, Huijeong.”

Karcher, Darrin M; animal sciences, from University of Minnesota, \$32,523, “Improving Well-Being of Commercial Turkeys through Gait and Footpad Assessment.”

Key, Nicole L; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, “Kamdar, Nitya Dipan.”

Kim, Hye-Ji; horticulture & landscape architecture, from University of Hawaii, \$20,050, “Nitrogen Transformations in Aquaponic Systems.”

Kim, Yuan H; **Cooper, Bruce R**; **Ebner, Paul D**; **Thompson, Nathanael M** and **Widmar, Nicole J**; animal sciences, medicinal chemistry & molecular pharmacology, agricultural economics, from National Institute of Food & Agriculture, \$363,822, “Value-Added Beef from Low Quality Beef Optimized Dry-Aging to Improve Palatability Attributes and Profitability of Cull Cow Beef.”

Kirkpatrick, Jane M; nursing, from Indiana State Department of Health, \$321,142, “Family Health Clinic of Carroll County: Increasing Access for Rural Populations Supplement.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Amarasinghe, Mud Hasara.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$3,333, “Salmon, Olivia.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Shi, Anni.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$10,000, “Wu, Siyu.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Naclerio, George Alfred.”

Kissinger to Lempert

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Miller, Lyndsy Ann.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Mendes De Oliveira, Denilson.”

Kissinger, Candice B; chemistry, from Purdue Doctoral Program, \$33,137, “Mesa Sanchez, Daniela.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Hodul, John Nicholas.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$7,855, “Salmon, Olivia.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Aayush, Aayush.”

Kissinger, Candice B; chemistry, from Purdue Doctoral Program, \$33,137, “Love, Camille Gabrielle.”

Kissinger, Candice B; chemistry, from Purdue Doctoral Program, \$33,137, “Jenkins, Kaelon Athena.”

Kissinger, Candice B; chemistry, from Lynn Interdisciplinary Graduate Fellowship, \$29,244, “Wijewardhane, Godakande.”

Kissinger, Candice B; chemistry, from Purdue University F N Andrews Fellowship, \$29,244, “Gonzalez Chavez, Victor Hugo.”

Kissinger, Candice B; chemistry, from Purdue University F N Andrews Fellowship, \$29,244, “Blach, Daria Dominika.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Kalb, Annah Elisabeth.”

Kissinger, Candice B; chemistry, from Purdue University F N Andrews Fellowship, \$28,457, “Manheim, Jeremy.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$3,333, “Steiman, Talia.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Washer, Benjamin McCann.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$3,333, “Wu, Siyu.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$11,188, “Kong, John Yuk.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Halder, Saayak.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$7,855, “Wu, Siyu.”

Kissinger, Candice B; chemistry, from Winifred B. Bilsland Endowment, \$14,521, “Steiman, Talia.”

Kissinger, Candice B; chemistry, from Ross Graduate Fellowship-Assistantship, \$29,244, “Urbina, Andres Sebastian.”

Kladienko, Eileen J and Morrow, Anna L; agronomy, from Walton Family Foundation, \$71,582, “Development and Promotion of Midwest Cover Crop Council Resources.”

Klimeck, Gerhard; electrical & computer engineering, from Purdue University, \$37,250, “Icheer: Institute for Continual Hub Enabled Education & Research.”

Knapp, Deborah W; Ramos-Vara, Jose A; Ratliff, Timothy L and Ruple, Audrey; veterinary clinical science, comparative pathobiology, from Purdue University, \$30,000, “Advancing Immunotherapy for Invasive Bladder Cancer.”

Knobloch, Neil A; Wang, Hui-Hui; Guzey, Siddika and Tormohlen, Roger L; youth development & agricultural education, curriculum and instruction, agricultural & biological engineering, from National Institute of Food & Agriculture, \$144,150, “Land-Grant Outreach for Community-Based Agricultural Learning for Science, Technology, Engineering and Mathematics Education (Local STEM).”

Kokini, Jozef L and Bhunia, Arun K; food science, from National Institute of Food & Agriculture, \$452,675, “Glutenin Fractions Visualized with Conjugated Quantum Dots and Confocal Microscopy Help Understand Rheology and Mixing Behavior of Wheat Doughs.”

Koltick, David S; physics, from Techsource, \$8,000, “Koltick Voluntary Support.”

Konieczny, Stephen F; biological sciences, from PHS-NIH National Cancer Institute, \$312,367, “Kras-Induced Cellular Plasticity in Pancreatic Cancer.”

Konieczny, Stephen F and Taparowsky, Elizabeth J; biological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$32,287, “Pancreas Transcription Factors and Disease Model Systems.”

Kritchevsky, Janice E and Couetil, Laurent L; veterinary clinical science, from University of Guelph, \$61,670, “The Effect of Supraphysiologic Thyroxine Administration on Measures of Performance in Racehorses.”

Kuang, Shihuan; Elzey, Bennett D and Konieczny, Stephen F; animal sciences, comparative pathobiology, biological sciences, from PHS-NIH National Cancer Institute, \$354,563, “Notch Signaling in Liposarcoma.”

Kuhn, Richard J; biological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$4,978, “BIOL – SRG.”

Ladisch, Michael R; agricultural & biological engineering, from Ross Graduate Fellowship-Assistantship, \$31,599, “Binkley, Robert.”

Ladisch, Michael R and Ximenes, Eduardo A; agricultural & biological engineering, from Archer Daniels Midland Co, \$132,883, “Starch Production by Fractionation of Corn Kernels.”

Landry, Steven J; industrial engineering, from Federal Aviation Administration, \$30,000, “FAA COE TTHP: Analysis of Technical Operations Job Tasks (#17).”

Latin, Richard X; botany & plant pathology, from BASF Corporation, \$11,592, “Testing Agreement for BASF Corporation.”

Latin, Richard X; botany & plant pathology, from Midwest Regional Turf Foundation, \$6,000, “Turfgrass Disease Research.”

Lechtenberg, Victor L; President, from Multi-Sponsored Industrials, \$10,000, “Support of Southeastern Small Business Development Center (SBDC) (204104).”

Leidy, Heather J; foods & nutrition, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$670,673, “Increased Protein at Breakfast for Weight Management in Overweight Adolescents.”

Lelievre, Sophie A and Ziaie, Babak; basic medical science, electrical & computer engineering, from Army Medical Research Acquisition Activity, \$564,673, “Risk-on-a-Chip for Tailored Primary Prevention of Breast Cancer.”

Lempert, Laszlo; mathematics, from National Science Foundation, \$77,198, “Complex Analysis and Geometry.”

Li to Mazur

Li, Ninghui and **Proctor, Robert W**; computer science, psychological science, from North Carolina State University, \$43,318, “North Carolina State University Science of Security Label; Amendment 7 (Grant 107122).”

Li, Tonglei; industrial & physical pharmacy, from Purdue Doctoral Program, \$29,244, “Lupo, Kyle, Byrnes.”

Li, Tonglei; industrial & physical pharmacy, from Chappelle, \$21,188, “Kwon, Soonbum.”

Li, Tonglei; industrial & physical pharmacy, from Lynn Interdisciplinary Graduate Fellowship, \$29,244, “Huls, Nicholas.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$2,500, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Knox, David M. Endowment, \$21,224, “Calzada Luna, Gabriela.”

Liceaga, Andrea M; food science, from Maplehurst Bakeries Inc, \$1,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Brands, Oberto, \$2,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Brands, Oberto, \$2,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Bay Valley Foods LLC, \$4,550, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$9,500, “Multi Sponsored Gift – Sensory.”

Lie, Victor D; mathematics, from National Science Foundation, \$112,949, “Topics in Harmonic Analysis: Interplay Between Time-Frequency Analysis, Additive Combinatorics and PDE.”

Lin, Guang; mathematics, from National Science Foundation, \$78,213, “Faculty Early Career Development (CAREER): Uncertainty Quantification and Big Data Analysis in Interconnected Systems.”

Lindshield, Stacy M; anthropology, from National Science Foundation, \$34,135, “HRRBAA: Habituation Feasibility Assessment for Critically Endangered Primates.”

Linnes, Jacqueline C and **Kinzer-Ursem, Tamara L**; biomedical engineering, from Vodafone Americas Foundation, \$300,000, “PathVis: the Power of the Lab in the Palm of Your Hand.”

Linnes, Jacqueline C; biomedical engineering, from Crosslife Technologies Inc, \$67,500, “Rapid Response Research (RAPID) Instrument-Free Nucleic Acid Test for Pathogen and Biothreats.”

Liu, Baiying; mathematics, from National Science Foundation, \$162,631, “On Discrete Spectrum of Classical Groups and Global Converse Theorem.”

Liu, Chunghong R and **Wu, Wenzhuo**; industrial engineering, from National Science Foundation, \$337,217, “Nanomanufacturing of Self-Powered Nanosensor Systems by Pulsed Laser Processing.”

Liu, Xiaoqi and **Ratliff, Timothy L**; Cancer Research Center, from PHS-NIH National Cancer Institute, \$354,563, “Treatment of Castration-Resistant Prostate Cancer (CRPC).”

Liu, Xiaoqi; **Ratliff, Timothy L** and **Xie, Jun**; Cancer Research Center, statistics, from PHS-NIH National Cancer Institute, \$25,769, “Overcoming Drug Resistance of Castration-Resistant Prostate Cancer.”

Liu, Xiaoqi; Cancer Research Center, from PHS-NIH National Cancer Institute, \$35,763, “Enhancing Anti-Neoplastic Activity of Metformin in Prostate Cancer.”

Lohman, Jeremy R and **Golden, Barbara L**; biochemistry, from Showalter Trust, \$75,000, “Catching Fatty Acid Biosynthetic Enzymes in the Act with a Non-Natural Amino Acid.”

Low, Philip S; chemistry, from University of Pennsylvania, \$55,800, “Near Infrared Intraoperative Molecular Imaging of Lung Adenocarcinoma, Amendment 1; Grant 108270.”

Lyanda-Geller, Yuli; physics, from U.S. Department of Energy, \$130,000, “Charge Carrier Holes Correlations and Non-Abelian Physics in Nanostructures, Quantum Hall Effect.”

Ma, Jianxin and **Cai, Guohong**; agronomy, botany & plant pathology, from Indiana Soybean Alliance, \$74,649, “Utilizing Novel Sources of Resistance to Phytophthora Root and Stem Rot of Soybean (Year 2).”

Ma, Jianxin; agronomy, from Indiana Soybean Alliance, \$81,223, “Genetic Dissection of Yield-Related Traits for Soybean Breeding.”

MacDermid Wadsworth, Shelley; child development & family studies, from Ohio State University, \$1,400, “SBHP Evaluation.”

Machaty, Zoltan; **Nolte, David D** and **Turek, John J**; animal sciences, physics, basic medical science, from PHS-NIH National Institute of Child Health and Human Development, \$18,782, “Assessment of the Developmental Potential of Oocytes and Embryos Using Biodynamic Imaging.”

Malandraki, Georgia; **Craig, Bruce A** and **Liu, Zhongming**; Institute for Integrated Neuroscience, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$149,827, “Neuroplastic Adaptations of Swallowing and Speech in Children with Unilateral Cerebral Palsy.”

Marais, Karen and **Felisberto Martins Ribeiro, Bruno**; aeronautical & astronautical engineering, computer science, from Federal Aviation Administration, \$121,575, “Project #5: Safety Analysis for General Aviation.”

Marconnet, Amy M; mechanical engineering, from BNNT, LLC, \$4,400, “Characterization of Bnnt Composites.”

Marconnet, Amy M and **Paniagua Perez, Guillermo**; mechanical engineering, from Intel Corporation, \$100,000, “Inverse Thermal Metrology for Wireless Devices.”

Matson, Eric T and **Smith, Anthony H**; computer & information technology, from Kyungpook National University, \$28,040, “Knu-Purdue Research Program 2017.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Syngenta Crop Protection Inc., \$400, “Research for 1995 Vegetable Variety Trial Program.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Rupp Seed Inc., \$800, “Research for 1995 Vegetable Variety Trial Program.”

Mazur, Lawrence J; economics, from National Science Foundation, \$48,886, “Collaborative Research: New Applications of Dynamic Games with Asymmetric Information: Mergers, Capacity Discipline and Price Rigidity.”

McCabe to Ortalan

McCabe, George P and **Henry, Courtney N**; statistics, from PHS-NIH National Center for Complimentary and Alternative Medicine, \$468, “A Simulation Tool to Evaluate Calcium-41 Experimental Study Designs.”

McCullouch, Bobby G; civil engineering, from Indiana University Purdue University at Indianapolis, \$13,500, “Agriculture, Road Conditions, and Road Funding: Making the Case II.”

Mei, Jianguo and **Cheng, Ji-Xin**; chemistry, biomedical engineering, from Showalter Trust, \$75,000, “Looking Deeper into the Tissues: Nanostructured Semiconducting Polymers Absorbing in the Second Near-Infrared Window for Photoacoustic Imaging.”

Mengiste, Tesfaye D; botany & plant pathology, from National Science Foundation, \$189,966, “Untangling the Complex Network of Bik1 Mediated Immune Response Signaling Pathways.”

Mesecar, Andrew D; biochemistry, from Winifred B. Bilsland Endowment, \$10,724, “Petell, Christopher.”

Mesecar, Andrew D; biochemistry, from Ross Graduate Fellowship-Assistantship, \$33,114, “Auber, Robert Patrick.”

Mesecar, Andrew D; biochemistry, from Purdue University F N Andrews Fellowship, \$33,114, “Boram, Trevor.”

Meyer, Scott E; mechanical engineering, from Spinlaunch Inc, \$9,979, “SpinLaunch LOX/Jet-A Rocket Engine Testing.”

Meyer, Terrence R; mechanical engineering, from Spectral Energies, LLC, \$69,998, “Advanced Laser Based Diagnostic Techniques for Combustion and Propulsion Research; Amendment 1, Option 1, Grant 108405.”

Miller, Jeffrey T; chemical engineering, from Argonne National Laboratory, \$30,000, “X-Ray Absorption Studies of Nrel Catalysts; Modification 6.”

Minton, David A; **Horgan, Briony H** and **Spencer, David A**; earth & atmospheric sciences, aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$353,000, “Chariot to the Moons of Mars.”

Minton, David A; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$36,712, “High Resolution Topography and Radar Observations of Lunar Craters and Cratered Surfaces.”

Mishra, Dharmendra K; food science, from Lynn Interdisciplinary Graduate Fellowship, \$33,114, “Mehta, Halak-Nimishbha.”

Mishra, Dharmendra K; food science, from Sunshine Juice Company, \$50, “Multi Sponsored Gift.”

Mishra, Dharmendra K; food science, from Turvey, Laura, \$75, “Multi Sponsored Gift.”

Mishra, Dharmendra K; food science, from Coleman, Patricia C, \$50, “Multi Sponsored Gift.”

Mohammadi, Mohsen; agronomy, from Agricultural Research Service, \$31,000, “New Modes of Wheat Resistance Against Hessian Fly.”

Mohammed, Sulma I; Cancer Research Center, from PHS-NIH National Cancer Institute, \$5,596, “Understanding Breast Cancer Metastasis to Lymph Node.”

Mohammed, Sulma I; **Mittal, Suresh K** and **Rajwa, Bartlomiej P**; Cancer Research Center, comparative pathobiology, basic medical science, from PHS-NIH National Cancer Institute, \$16,857, “Understanding Breast Cancer Metastasis to Lymph Node.”

Mosier, Nathan S; agricultural & biological engineering, from Purdue University F N Andrews Fellowship, \$33,114, “Overton, Jonathan.”

Mott, John H; aviation technology, from Delta Air Lines Inc, \$67,500, “A3IR Core.”

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$10,000, “Flow Boiling and Condensation Experiment (FBCE).”

Muir, William M; animal sciences, from University of California – Davis, \$54,865, “Mareks Resource Population Development.”

Munnamalai, Vidhya and **Fekete, Donna M**; biological sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$155,000, “Gene Networks in Cochlear Patterning.”

Mutchler, Jane F; management – Calumet campus, from Indiana Economic Development Corporation, \$65,454, “Northwest Indiana Small Business Development Center 2017 (State Funds).”

Mutchler, Jane F; management – Calumet campus, from Indiana Economic Development Corporation, \$202,534, “Northwest Indiana Small Business Development Center 2017 (Federal Funds & PNW Cash Match).”

Nateghi, Roshanak; industrial engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, “Maia Silva, Debora.”

Newton, Jill A; curriculum and instruction, from University of Southern Indiana, \$55,669, “Creating Algebra Teaching Communities for Hoosiers (Catch); Modification 1, Grant 208355.”

Newton, Kathryn A; industrial technology, from Ross Graduate Fellowship-Assistantship, \$18,869, “Ma, Siming.”

Nielsen, Robert L; **Camberato, James J** and **Kissick, Ashley L**; agronomy, from Indiana Corn Marketing Council, \$90,157, “Profitable and Environmentally Sustainable Corn Production in Indiana.”

Niyogi, Devdutta S; agronomy, from Fowler, Marilyn, \$70, “State Climatology.”

Niyogi, Devdutta S; agronomy, from National Aeronautics and Space Administration, \$45,000, “Integrating Land Surface Processes for Improved Simulation of Landfalling Tropical Cyclones.”

Okuniewski, Maria A; materials engineering, from Oak Ridge Associated Universities, \$5,000, “Orau Ralph E. Powe Junior Faculty Enhancement Awards.”

Olek, Jan; civil engineering, from Indiana Department of Transportation, \$75,000, “North Central Superpave Center SPR-2042.”

Oliver, Haley F; food science, from Mahidol University, \$8,800, “Bench Fees Request for Ms. Atsadang Boonmee as a Visiting Scholar at Purdue University.”

Oliver, Haley F; food science, from Purdue University F N Andrews Fellowship, \$33,114, “Wu, Tongyu.”

Ortalan, Volkan; materials engineering, from Office of Naval Research, \$85,000, “Investigation of Dynamic Processes in Energetic Materials by Ultrafast Transmission Electron.”

Ortalan, Volkan; materials engineering, from Office of Naval Research, \$254,353, “Investigation of Dynamic Processes in Energetic Materials by Ultrafast Transmission.”

Panchal to Raymond

Panchal, Jitesh H; Bilonis, Ilias; Helie, Sebastien and Kannan, Karthik N; mechanical engineering, psychological science, management, from National Science Foundation, \$649,876, "Understanding Information Acquisition Decisions in Systems Design through Behavioral Experiments and Bayesian Analysis."

Parashar, Neeti; chemistry and physics – Calumet campus, from National Science Foundation, \$137,198, "Research in High Energy Physics on the Compact Muon Solenoid (CMS) Experiment."

Parker, Loran C and Burgess, Wilella D; education-administration, from Vanderbilt University, \$88,790, "Mobilizing Science, Technology, Engineering & Mathematics (STEM) Talent for STEM Teaching NSF Robert Noyce Teacher Scholarship Program."

Pastakia, Sonak D; pharmacy practice, from University of Warwick, \$18,325, "Ethnic Specific Risk Stratification in Early Pregnancy for Identifying Mothers at Risk of Gestational Diabetes Mellitus in India and Kenya."

Pastakia, Sonak D and Karwa, Rakhi; pharmacy practice, from Indiana University, \$1,567, "Ampath Plus."

Pastakia, Sonak D and Karwa, Rakhi; pharmacy practice, from Indiana University, \$3,446, "Ampath Plus."

Patton, Aaron J; horticulture & landscape architecture, from BASF Corporation, \$9,660, "Testing Agreement for BASF Corporation."

Patton, Aaron J; horticulture & landscape architecture, from United States Golf Association, \$6,000, "Multi Sponsored."

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$10,000, "MRTF Extension & Research."

Patton, Venetria K; interdisciplinary studies, from Purdue University F N Andrews Fellowship, \$20,091, "Yamamoto, Mai."

Patton, Venetria K; interdisciplinary studies, from Winifred B. Bilsland Endowment, \$19,224, "Huang, Yingying."

Peterson, Jonathon R; mathematics, from National Security Agency, \$20,000, "Random Walks in Random Environments."

Pipes, R Byron; materials engineering, from Cytec Industries Inc, \$50,000, "CDM HUB (Consortium)."

Pipes, R Byron; Yu, Wenbin; Sterkenburg, Ronald; Goodsell, Johnathan E and Strachan, Alejandro H; aeronautical & astronautical engineering, aviation technology, materials engineering, from University of Tennessee, \$2,123,912, "IACMI – BP3 -Overall."

Pol, Vilas G and Sadeghi, Farshid; chemical engineering, mechanical engineering, from Timken Company, \$35,000, "Feasibility Tests of Low-Cost, High Performance Graphene Based Coatings for an Industrial Applications."

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Physical Sciences, Inc., \$43,682, "Electrical Power from Thermal Energy Scavenging in High Temperature Environments."

Powley, Terry L; psychological science, from PHS-NIH Office of the Director, \$20,014, "Mapping Stomach Autonomic Circuitry and Function for Neuromodulation of Gastric Disorders."

Prabhakar, Sunil K; computer science, from Purdue University F N Andrews Fellowship, \$18,833, "Shehata, Aly."

Prabhakar, Sunil K; computer science, from Air Force Research Laboratory, \$201,389, "Quelea: Verified Compilation of Weakly-Consistent Distributed Systems."

Prabhakar, Sunil K; computer science, from David M. Knox Endowment, \$21,188, "Williams, Tara Elaine."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$18,333, "An, Shengwei."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$18,833, "Choulos, Alexander George."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$18,833, "Lin, Ying_Chun."

Prabhakar, Sunil K; computer science, from Winifred B. Bilsland Endowment, \$21,188, "Jero, Samuel."

Preckel, Paul V and Gotham, Douglas J; agricultural economics, biological sciences, from Indiana Utility Regulatory Commission, \$1,139,653, "Continue the Work of the State Utility Forecasting Group." (a Discovery Park award – the energy Center)

Prezzi, Monica; civil engineering, from Winifred B. Bilsland Endowment, \$21,224, "Galvis-Castro, Ayda."

Prokopy, Linda S; Hook, Tomas O; McMillan, Sara K; Kim, Hye-Ji; Malinich, Timothy D; Merwade, Venkatesh M; Brown, Paul B; Mitchell, Cary A and Rode, Robert A; agriculture – administration, forestry & natural resources, agricultural & biological engineering, horticulture & landscape architecture, civil engineering, from U.S. Geological Survey, \$77,414, "State Water Resources Research Institute Program Fiscal Year2016."

Purpura, David J; Purcell, Megan L; Schmitt, Sara A and Elicker, James G; child development & family studies, from Indiana Department of Education, \$483,011, "ISTAR-KR Enhancement Project."

Puthiyaveetil, Sujith and Cramer, William A; biochemistry, biological sciences, from Showalter Trust, \$75,000, "The Structural Basis of a Serine/Threonine-Type Kinase Activity in the Chloroplast Sensor Kinase."

Qi, Minghao; electrical & computer engineering, from Ren, Yalin, \$10,000, "Optixpan Semiconductors Voluntary Support." (a Discovery Park award – Birck Nanotechnology Center)

Qu, Ming; civil engineering, from Ut-Battelle LLC, \$53,118, "SaltX Heat Pump: Residential Gas-Fired Cost-Effective Triple-State Sorption Heat Pump."

Quagraine, Kwamena K; agricultural economics, from Iowa State University, \$3,477, "Assessing the Status of Aquaculture Associations in the North Central Region."

Rainey, Katherine M and Cherkauer, Keith A; agronomy, agricultural & biological engineering, from Indiana Soybean Alliance, \$66,423, "A Public-Private Partnership to Use Drone-Acquired Metrics to Increase Accuracy of Yield Estimation in Multi-Environment Yield Trials of Soybeans."

Ramanathan, Shriram; materials engineering, from Sensormetrix, \$52,313, "Phase-Change Materials for Tunable Infrared Devices."

Ratliff, Timothy L; Cancer Research Center, from PHS-NIH National Cancer Institute, \$1,544,675, "Cancer Center Support Grant – YR3."

Raymond, Leigh S; Braun, James E; Karava, Panagiota; Peeta, Srinivas; Bilonis, Ilias; Brunswicker, Sabine; Horton, William T; Reimer, Torsten O and Weldon, Sirje L; political science, mechanical engineering, civil engineering, industrial technology, communication, from Purdue University, \$300,000, "Affordable Netzero Housing and Transportation Solutions."

Rebello to Shaver

Rebello, Nobel S; physics, from University of Wisconsin-Madison, \$54,654, "Science Inquiry Using Physical and Virtual Experiments: Systematic Investigation of Issues and Conditions for Learning; Amendment 1, Grant 108277."

Remis, Melissa J and Hall, Elizabeth S; anthropology, from Primate Conservation Inc., \$2,480, "Patterns of Human-Primate Interaction in a Protected Central African Forest Reserve."

Richmond, Douglas S; entomology, from Midwest Regional Turf Foundation, \$6,000, "Turfgrass Entomology Research."

Robicheaux, Francis J; physics, from U.S. Department of Energy, \$50,000, "Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping."

Rodgers, Elysia A; field extension agents, from DeKalb County Community Foundation, \$3,250, "Goat Artificial Insemination Training Workshop."

Rogat, Toni K and Traynor, Anne; educational studies, from National Science Foundation, \$245,458, "Collaborative Research: Theoretical and Methodological Tools for Studying Group Productive Disciplinary Engagement."

Rokhinson, Leonid P; physics, from U.S. Department of Energy, \$140,000, "Engineering Topological States of Matter and Search for Majorana Fermions."

Roy, Kaushik; electrical & computer engineering, from The Boeing Company, \$156,119, "Integrity & Reliability of Integrated Circuits (IRIS), Phase III; Amendment 1, Grant 108309."

Russell, Mark A; youth development & agricultural education, from Pioneer Hi-Bred International, Inc., \$15,000, "Case Program."

Sabbaghi, Arman; statistics, from National Science Foundation, \$50,000, "Collaborative Research: EAGER: Explore the Theoretical Framework of Engineering Knowledge Transfer in Cybermanufacturing Systems."

Salgado, Rodrigo; civil engineering, from CTI and Associates Inc, \$2,000, "Coffee."

Sandhage, Kenneth H; materials engineering, from Trask Trust Fund, \$40,000, "Cost-Effective Friction Stir Welding Tools for Joining High-Strength, High-Temperature Metals: A Trask Innovation Fund Proposal."

Sandhage, Kenneth H; materials engineering, from Rolls-Royce Corporation, \$85,000, "Chemical Interactions Between Si-Based Liquids and SiC: Thermodynamic and Kinetic Analyses."

Santagata, Maria Caterina; civil engineering, from Purdue University F N Andrews Fellowship, \$33,030, "Garzon, Sabogal."

Saraswat, Dharmendra; agricultural & biological engineering, from Ross Graduate Fellowship-Assistantship, \$31,599, "Etienne, Aaron."

Saunders, Michael R; forestry & natural resources, from U.S. Forest Service, \$17,000, "End-of-Rotation Prescribed Fire: Tree- and Stand-Level Effects on Quality and Lumber Value Recovery."

Saunders, Michael R; forestry & natural resources, from U.S. Forest Service, \$10,000, "Effects of Prescribed Fire within Shelterwood Regeneration Systems on Residual Overstory Timber Quality."

Savaiano, Dennis A; foods & nutrition, from Indiana Clinical & Translational Science Institute, \$24,000, "Healthy Communities of Clinton County Coalition as a Model for Community Health Improvement." (a Discovery Park award – Bindley Bioscience Center)

Savikhin, Sergei F; physics, from National Science Foundation, \$148,826, "Research Experience for Undergraduates (REU) Site: Multidisciplinary Physics at Purdue University."

Scalo, Carlo; mechanical engineering, from Lynn Interdisciplinary Graduate Fellowship, \$30,652, "Decarvalho Britto Sousa, Victor."

Scalo, Carlo; mechanical engineering, from Air Force Office of Scientific Research, \$72,096, "Direct Numerical Simulation of Hypersonic Transition Delay Over Carbon/Carbon Ultrasonically Absorptive Coatings."

Scalo, Carlo and Vlachos, Pavlos; mechanical engineering, from National Science Foundation, \$449,788, "Boundary Layer Turbulence Control via Acoustically Resonating Porous Surfaces."

Scalo, Carlo; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, "Yu, Zongxin."

Schoenlein, William E and Durkes, Abigail C; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$95,188, "Pre-Clinical Device Testing Agreement; Studies: CBI-BSPI, CI-SRLY, CI-WGAE, CI-WGGV, CI-LAMP, POC and Sentinels."

Schoenlein, William E and Durkes, Abigail C; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$48,191, "Pre-Clinical Device Testing Agreement; Studies: REG-MMT3, CI-PDE2, WCE-FRV2, POC and Sentinels."

Scutari, Gesualdo; industrial engineering, from National Science Foundation, \$270,000, "CIF:Small:Collaborative Research:Distributed Fog Computing for Non-Convex Big-Data Analytics."

Seleem, Mohamed; comparative pathobiology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$461,818, "Repurposing Auranofin and Ebselen for Treatment of Multidrug Resistant Pathogens."

Shalaev, Vladimir M and Boltasseva, Alexandra; engineering administration engineering experiment, electrical & computer engineering, from Georgia State University, \$204,004, "Novel Nonlinear Optical Processes in Active, Random and Nanostructured Systems." (a Discovery Park award – Birk Nanotechnology Center)

Shannahan, Jonathan H; health sciences, from Showalter Trust, \$75,000, "Disease-Related Variations in Response to Nanoparticle Exposure."

Shannahan, Jonathan H; health sciences, from PHS-NIH National Institute of Environment Health Science, \$65,929, "Disease-Induced Modification in the Nanoparticle Corona Identification & Toxicity."

Shaver, Gregory M; Garcia, R Edwin and Wasynczuk, Oleg; mechanical engineering, materials engineering, electrical & computer engineering, from Cummins, Inc., \$175,000, "Advanced Hybrid System Design."

Shaver to Taylor

Shaver, Gregory M; DeLaurentis, Daniel A; Mou, Shaoshuai; Peeta, Srinivas and Sundaram, Neera J; mechanical engineering, aeronautical & astronautical engineering, civil engineering, from U.S. Department of Energy, \$4,770,000, “Enabling High-Efficiency Operation through Next-Generation Control Systems Development for Connected and Automated Class 8 Trucks.”

Shaver, Gregory M; mechanical engineering, from David M. Knox Endowment, \$21,224, “Ibitayo, Ifeoluwa, Jimmy.”

Sheehan, Amy H; pharmacy practice, from Takeda Pharmaceutical International Inc US Region, \$4,000, “Takeda-Purdue Regulatory Fellowship.”

Sheehan, Amy H; pharmacy practice, from Takeda Pharmaceutical International Inc US Region, \$8,000, “Takeda-Purdue Regulatory Fellowship.”

Sheehan, Amy H; pharmacy practice, from Takeda Pharmaceutical International Inc US Region, \$4,000, “Takeda-Purdue Regulatory Fellowship.”

Shen, Jie; mathematics, from National Science Foundation, \$130,000, “Collaborative Research: Efficient, Stable and Accurate Numerical Algorithms for a Class of Gradient Flow Systems and Their Applications.”

Shepson, Paul B; chemistry, from National Institute of Standards & Technology, \$368,732, “Application of the Aircraft Mass Balance Method for Measurement of Greenhouse Gas Emission Rates for Eastern U.S. Cities; Amendment 1, Grant 108586.”

Shin, Yung C; mechanical engineering, from Naval Surface Warfare Center Indian HD Div, \$146,662, “Seamless Manufacturing and Remanufacturing for Foundry Industry via Laser-Based 3-D Printing and Surface Cladding.”

Shively, Gerald E; agricultural economics, from Tufts University, \$85,000, “Nutrition Innovation Lab – Purdue (2016/2017).”

Simpson, Garth J and Das, Chittaranjan; chemistry, from PHS-NIH National Institute of General Medical Science, \$28,870, “Nonlinear Optical Imaging for Guiding Protein Structure Determination.”

Sloan, Mary Anne; Office of Corporate and Global Partnerships, from Decatur Memorial Hospital, \$806, “Multi Sponsor Account I-Hitec.”

Smith, Mjt; graduate school administration, from National Science Foundation, \$2,817,833, “2012-18 NSF Graduate Research Fellowship Program (GRFP).”

Snyder, Margie E; pharmacy practice, from University of Cincinnati, \$12,447, “Purdue University CTN Yr18 Subaward.”

Solomon, Kevin V; agricultural & biological engineering, from Purdue University F N Andrews Fellowship, \$33,114, “Readnour, Logan.”

Son, Steven F; mechanical engineering, from Purdue Doctoral Program, \$33,030, “Collard, Diane Nicole.”

Spafford, Eugene H; computer science, from Vencore Labs Inc, \$60,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

Spafford, Eugene H; computer science, from Multi-Sponsored Industrials, \$500, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

Spafford, Eugene H; computer science, from Src Education Alliance, \$60,000, “Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support.”

Spaulding, Michelle L; biological sciences – calumet campus, from National Science Foundation, \$166,294, “Collaborative Research: a Phylogeny of Placental Mammals Based on Paleocene Taxa: Determining the Impact of the K-Pg Extinction of Mammalian Evolutionary History.”

Straw, Mark L; animal sciences, from PHS-FDA Food and Drug Administration, \$155,256, “Implementation of 21 CFR 118: Inspection of Indiana Egg Producing Facilities.”

Strickland, Elizabeth A and Huber, Jessica E; speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$1,516, “Communicative Disorders.”

Strickland, Elizabeth A and Huber, Jessica E; speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$195,645, “Communicative Disorders.”

Subbarayan-Shastri, Ganesh; mechanical engineering, from Texas Instruments, Inc., \$65,000, “Texas Instruments, Inc.”

Suitor, J Jill; sociology, from Purdue University, \$30,000, “Within-Family Dynamics and End-of-Life Processes Pilot.”

Sutherland, John W; environmental & ecological engineering, from Purdue Doctoral Program, \$33,030, “Ley, Christiane Joy.”

Swithers, Susan E; psychological science, from PHS-NIH National Institute of Child Health and Human Development, \$6,000, “Annual Meeting of the International Society for Developmental Psychobiology.”

Szpankowski, Wojciech; computer science, from Purdue University, \$332,822, “Purdue Center for Science of Information (PCSoI).”

Szymanski, Daniel B and Kim, Tae Yoon; agronomy, biomedical engineering, from National Science Foundation, \$914,062, “Collaborative Research: an Integrated Experimental and Computational Approach to Discover Biomechanical Mechanisms of Leaf Epidermal Morphogenesis.”

Szymanski, Daniel B; agronomy, from Washington State University, \$189,517, “Deciphering the Role of RNA Binding Proteins in RNA Transport, Localization and Post-Transcriptional Processes in Plants, Amendment 4 (Grant 107752).”

Talavage, Thomas M; electrical & computer engineering, from Medicine Institute, Inc, \$25,000, “Cook Support for Magnetic Resonance Imaging (MRI).”

Talavage, Thomas M; electrical & computer engineering, from Talavage, Joseph or Mary Ann, \$20,000, “Talavage Voluntary Support.”

Tan, Hong Z; electrical & computer engineering, from Facebook, \$918,481, “Innatam – Tactile Communication of Speech.”

Tao, Weiguo A; biochemistry, from Louisiana State University, \$32,298, “The Role of SEN1 in Transcription Coupled DNA Repair (TCR).”

Taylor, Lynne S; industrial & physical pharmacy, from Purdue Doctoral Program, \$37,176, “Shah, Dishan Divyulku.”

Taylor, Lynne S; industrial & physical pharmacy, from Multi-Sponsored Industrials, \$20, “Pfizer Gift.”

Tolbias to Xia

Tobias, Justin L; economics, from Purdue Research Foundation (PRF) Summer Research Grants, \$15,146, “MGMT – SRG.”

Tobias, Justin L; economics, from Ross Graduate Fellowship-Assistantship, \$16,356, “Woods, Daniel.”

Tong, Yunjie; biomedical engineering, from PHS-NIH National Institute on Drug Abuse, \$137,928, “Multimodal Neuroimaging of Cigarette Smoking.”

Tonnensen, Bridgette L; psychological science, from University of South Carolina, \$27,700, “Emergence and Stability of Autism in Fragile X Syndrome.”

Tonnensen, Bridgette L; psychological science, from PHS-NIH National Institute of Mental Health, \$182,706, “Telehealth Assessment of Syndromic Autism Risk in Infants.”

Trader, Darci J; medicinal chemistry & molecular pharmacology, from Showalter Trust, \$75,000, “Discovery of Proteasome Stimulators to Treat Diseases Associated with Protein Accumulation.”

Tu, Manghui and **Trekles, Anastasia M**; computer information technology – Calumet campus, education, from National Security Agency, \$63,584, “Gencyber Summer Camp for High School Teachers in Chicago Metropolitan Area.”

Turco, Ronald F; **Goforth, Reuben R**; **McMillan, Sara K** and **Prokopy, Linda S**; agronomy, forestry & natural resources, agricultural & biological engineering, from Indiana Department of Environmental Management, \$724,994, “St. Marys Watershed Initiative.”

Turco, Ronald F; agronomy, from Actagro Plant Nutrients, \$35,000, “Water Quality.”

Umulis, David M and **Rundell, Ann E**; agricultural & biological engineering, biomedical engineering, from PHS-NIH National Institute of Child Health and Human Development, \$30,467, “Systems Analysis of BMP Regulation in Developing Zebrafish Embryos.”

Uyeda, Christopher H; chemistry, from National Science Foundation, \$266,513, “Faculty Early Career Development (CAREER): SusChEM: Metal-Metal Bonds as Active Sites in Catalysis.”

Vacca, Andrea; agricultural & biological engineering, from Parker Hannifin Foundation, \$8,500, “Parker Laboratory Gift Account.”

Vacca, Andrea; agricultural & biological engineering, from National Fluid Power Association, \$3,000, “Multi Sponsored Gift.”

Vacca, Andrea; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$21,224, “Thiagarajan, Divya.”

Vacca, Andrea; agricultural & biological engineering, from Parker Hannifin Corp., \$149,239, “Performance Analysis and Design Optimization of an Orbit Type Hydraulic Motor.”

Van Rijn, Richard M; medicinal chemistry & molecular pharmacology, from Winifred B. Bilsland Endowment, \$16,960, “Alongkronrusmee, Doungkamol.”

Van Rijn, Richard M; medicinal chemistry & molecular pharmacology, from Winifred B. Bilsland Endowment, \$16,960, “Doyle, Meridith, Tracy.”

Vlachos, Pavlos; mechanical engineering, from American Heart Association, \$53,688, “Assessing the Growth and Rupture of Cerebral Aneurysms Using 4D PC – Magnetic Resonance Imaging (MRI) and 4D PIV.”

Voyles, Richard M and **Wachs, Juan P**; engineering technology, industrial engineering, from National Science Foundation, \$14,345, “Workshop Support to Encourage Student Investigation of Gesture and Dialog.”

Vyn, Tony J; agronomy, from Monsanto Company, \$63,993, “Nitrogen Advisor Collaboration Agreement-Year 2.”

Wagner, Robert G; forestry & natural resources, from Indiana Arborists Association, Inc., \$7,500, “Indiana Arborists Association, Inc.”

Wan, Hong; industrial engineering, from Naval Postgraduate School, \$7,500, “Lasso-Based Supersaturated Design and Analysis for Simulation Experiments – Increase 108609.”

Wassgren, Carl R; mechanical engineering, from Winifred B. Bilsland Endowment, \$21,188, “Kumar, Rohit.”

Watts, Val J; medicinal chemistry & molecular pharmacology, from Purdue Doctoral Program, \$10,260, “Elder, Sarah.”

Weaver, Connie M; foods & nutrition, from The A2 Milk Company, \$60,000, “Lactose Intolerance Study.”

Weaver, Connie M; foods & nutrition, from Pharmavite, \$10,000, “Multi Sponsored Gift.”

Webb, Kevin J; electrical & computer engineering, from Army Research Office, \$20,000, “The Optomechanical Response of Nanostructured Materials.”

Weiner, Andrew M; electrical & computer engineering, from Oak Ridge National Laboratory, \$2,000, “A Quantum Interconnect for Matter Qubits Based on Frequency Encoded Photonic Qubits.”

Weiner, Andrew M and **Qi, Minghao**; electrical & computer engineering, from Air Force Office of Scientific Research, \$237,687, “Microresonator-Based Optical Frequency Combs: Initiation, Characterization, Control.”

Weinstein, Dana; electrical & computer engineering, from National Science Foundation, \$191,556, “Faculty Early Career Development (CAREER): Active Transducers for Microelectromechanical System (MEMS) Resonators in Integrated Circuit Technology.”

Weldon, Sirje L; political science, from American Jewish World Service, \$29,945, “Womens Movements in Africa, Asia and Latin America.”

Weller, Stephen C; horticulture & landscape architecture, from Mint Industry Research Council, \$5,000, “Mint Industry Research.”

Wenthold, Paul G; chemistry, from National Science Foundation, \$293,029, “Charge-Remote Mass Spectrometry: a Tool for the Physical Organic Studies of Reactive Intermediates.”

Wetzstein, Hazel Y; horticulture & landscape architecture, from Hensch, Kenneth L., \$50, “Multi Sponsored Gift Account.”

Whelton, Andrew J; civil engineering, from Ross Graduate Fellowship-Assistantship, \$31,515, “Odimeyomi, Tolulope.”

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$83,334, “Biomimetic Adhesives Delivered Underwater, with Charges, and from Renewable Resources.”

Xia, Yu; chemistry, from PHS-NIH National Institute of General Medical Science, \$333,316, “Mass Spectrometry Method with C=C Location Specificity for Qualitative and Quantitative Lipid Analysis.”

Xu to Zollner

Xu, Dongyan; Deng, Xinyan and Zhang, Xiangyu; Center for Education and Research in Information Assurance and Security (CERIAS), mechanical engineering, from Office of Naval Research, \$625,000, “A Cross-Layer Framework for Retrofitting Robotic Vehicle Controllers.”

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$383,638, “Modulating C-Myc Transcription by G-Quadruplex-Interactive Small Molecules.”

Yang, Liu; New Albany Polytechnic, from Resource Optimization & Innovation, \$29,000, “Hospital Supplier Optimization.”

Ye, Dong Hye; Bouman, Charles A and Son, Steven F; electrical & computer engineering, from Northeastern University, \$11,113, “Small-Scale Characterization of Homemade Explosives (HMEs) – Characterization and Elimination of Illicit Explosives.”

Ye, Peide; electrical & computer engineering, from Taiwan Semiconductor Manufacturing Co, \$120,000, “Phosphorene as a New 2D Material for Tunneling FETs 209225.”

Ye, Peide; electrical & computer engineering, from Defense Threat Reduction Agency, \$150,000, “Scaled Ingaas Nano-Mosfet Advanced Radiation Hardness Tests (SMART); Amendment 4, Grant 107126.” (a Discovery Park award – Birck Nanotechnology Center)

Yen, Jui-Hung; medical education – Fort Wayne campus, from Indiana University, \$10,000, “Fy18 Indiana University School of Medicine (IUSM)-Fort Wayne Dr. Yen Multiple Sclerosis Research Fund.”

Yen, Jui-Hung; medical education – Fort Wayne campus, from Indiana University, \$20,000, “Fy18 Indiana University School of Medicine (IUSM)-Fort Wayne Dr. Yen Start-Up Fund.”

Yeo, Yoon; Elzey, Bennett D and Galinsky, Raymond E; industrial & physical pharmacy, comparative pathobiology, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$34,920, “Environmentally-Adaptive Nanoparticles with Focal Irradiation for Cancer Therapy.”

Yu, Wenbin; aeronautical & astronautical engineering, from Georgia Technology, \$34,533, “VABS as a Tool for Real Blade Analysis, Design, and Certification; Amendment 1 Grant 108848.”

Yuan, Chongli; Kirchmaier, Ann L and Yeo, Yoon; chemical engineering, biochemistry, industrial & physical pharmacy, from National Science Foundation, \$449,998, “Enhancing Transgene Expression and Retention by Co-Delivery of DNA Vectors with Modified Histones.”

Zavattieri, Pablo D; civil engineering, from University of California-Riverside, \$212,816, “Convergent Evolution to Engineering: Multiscale Structures and Mechanics in Damage Tolerant Functional Bio-Composite and Biomimetic Materials; Amendment 2.”

Zavattieri, Pablo D; civil engineering, from National Science Foundation, \$8,000, “Faculty Early Career Development (CAREER): Multiscale Investigation and Mimicry of Naturally-Occurring Ultra-High Performance Composite Materials.”

Zhang, Xinghang; materials engineering, from U.S. Department of Energy, \$150,000, “Zhang – Deformation Mechanisms of Nano-twinned Al and Binary Al Alloys.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship-Assistantship, \$29,244, “McNabb, Harrison, James.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$34,875, “Structure/Function of Protein Tyrosine Phosphatases.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Purdue University F N Andrews Fellowship, \$29,244, “Muli, Christine.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship-Assistantship, \$29,244, “Gutridge, Anna Marie.”

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship-Assistantship, \$29,244, “Eaton, Muriel.”

Zhou, Chenn Q; Chen, Bin and Silaen, Armin K; Center for Innovation through Visualization & Simulation, electrical and computer engineering – Calumet campus, from U.S. Steel Corporation, \$63,324, “Predictive Maintenance for Reheat Furnace Fans in Hot Strip Mill.”

Zhou, Qi; industrial & physical pharmacy, from Showalter Trust, \$75,000, “Novel Inhalation Therapies for Treatment of Fatal Gram-Negative Lung Infections.”

Zhuang, Qianlai; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$21,224, “Qu, Yang.”

Zillich, Alan J; pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$75,955, “R.L. Roudebush Veterans Administration Medical Center for Deanna Kania.”

Zollner, Patrick A; forestry & natural resources, from Indiana Department of Natural Resources, \$810, “Nocturnal Habitat Selection of Bats Using Occupancy Models.” ■

Notice Regarding Sponsored Program Awards

The Sponsored Program Awards list is generated by Sponsored Program Administration. Questions concerning the information contained in these pages should be directed to Stephanie Willis at swillis@purdue.edu. ■