

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

May 2019

Abbott to Bigelow

Abbott, Angela R; health & human sciences administration, from Oak Heritage Conservancy Inc, \$406, "Multi Sponsor Voluntary Support."

Aime, Mary Catherine and **Haelewaters, Danny;** botany & plant pathology, from Indiana Academy of Science, \$3,000, "A Survey of Crust Fungi in Indiana (Fungi, Agaricomycetes), Inspired by the Recent Discovery of Undescribed Species from Midwestern United States."

Aime, Mary Catherine; botany & plant pathology, from International Tropical Timber Org, \$5,100, "Aime Voluntary Support."

Aime, Mary Catherine; botany & plant pathology, from Mycological Society of America, \$5,000, "Aime Voluntary Support."

Ajuwon, Kolapo; animal sciences, from Adisseo, \$100,000, "Environmental Effects on Efficacy of Carbohydrase Admixture (Xylanase-Arabinofuranosidase and β -Glucanase) in Growing Pigs Fed Wheat-Based Diet."

Ajuwon, Kolapo; animal sciences, from Kemin Industries, Inc., \$62,594, "Effect and Safety of 1,3-Beta Glucans and Proteins on Immune Development in Swine Under Environmental Stress."

Ajuwon, Kolapo; animal sciences, from Biomatrix Inc, \$15,000, "Swine Research."

Alexeenko, Alina; aeronautics & astronautics, from Merck Serono, \$10,000, "LyoHub Consortium (Merck Serono S.P.a)."

Alexeenko, Alina; aeronautics & astronautics, from Medimmune, Inc, \$10,000, "LyoHub Consortium-Medimmune LLC."

Alexeenko, Alina; aeronautics & astronautics, from University of Delaware, \$2,000, "LyoHub Consortium."

Aliaga, Daniel G and **Niyogi, Devdutta S;** computer science, agronomy, from University Corp Advancement Internet Development, \$80,990, "Building Clouds: Worldwide Building Typology Modeling from Images."

Allert, Beate I; language & culture, from Lynn Interdisciplinary Graduate Fellowship, \$25,609, "Wang, Lang (OIGP)."

Anderson, Gina M; field extension, from Scott County Visitors Commission, \$125, "Southeastern Indiana Llama and Alpaca Conference."

Anderson, Joseph M; agronomy, from Samuel J. Fry, \$150, "Indiana Arborists Association, Inc.."

Bahr, David F; materials engineering, from Purdue Doctoral Program, \$31,959, "Rutherford, Bethany."

Bailey, Regan K; Bhadra, Anindya and **Eicher-Miller, Heather A;** nutrition science, statistics, from National Institutes of Health, \$331,894, "Development of a Total Nutrient Index."

Bailey, Regan K; nutrition science, from Taylor C Wallace, \$11,250, "Think Healthy Voluntary Support – Bailey."

Baldos, Uris Lantz C; agricultural economics, from Breakthrough Prize Foundation, \$24,661, "Analysis of Environmental Impacts of US R&D Scenarios."

Bane, Sally P M; aeronautics & astronautics, from U.S. Department of Energy, \$232,267, "Nanosecond Repetitively Pulsed (NRP) Plasmas: Relationship Between Induced Flow and Plasma Characteristics at Atmospheric Pressure."

Banuelos, Rodrigo; mathematics, from National Science Foundation, \$300,000, "Sharp Inequalities."

Bean, Robert S; nuclear engineering, from U.S. Department of Energy, \$155,000, "Cooperative Agreement to Host DOE Fellows and Scholars at Purdue University – Nicholas Termini."

Beaulieu, Lionel J; Wiltse, Maria F and **Wilcox, Michael D;** agricultural economics, I-STEM, field extension agents, from Indiana Office of Community & Rural Affairs, \$25,000, "Project 3: Enhancing Community and Regional Capacity and Resources: the Regional Stellar Communities Program: Coaching Activities."

Beckerman, Janna L; botany & plant pathology, from Bayer Corporation, \$9,100, "Indiana Arborists Association, Inc.."

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

Beckerman, Janna L; botany & plant pathology, from Sepro Corporation, \$7,000, "Indiana Arborists Association, Inc.."

Beckerman, Janna L; botany & plant pathology, from BASF Corporation, \$8,500, "Indiana Arborists Association, Inc.."

Behrens, Sandra R; college of nursing administration, from Indiana University, \$19,169, "Northwest Indiana Area Health Center State Funds Increase."

Bentley, Robin T; veterinary clinical sciences, from University of Alabama at Birmingham, \$38,088, "Canine (Canine Immunoneurotherapeutics Trial)."

Bigelow, Cale A; horticulture & landscape architecture, from Mountain View Seeds LLC, \$500, "Putting Greens Research."

Bigelow, Cale A; horticulture & landscape architecture, from Helena Agri-Enterprises, LLC, \$1,875, "Putting Greens Research."

Bigelow, Cale A; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$30,000, "MRTF Gift Account."

Bolin to Buckmaster

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$10,400, “Fy19-20 Purdue Research Foundation (PRF) Summer Faculty Grants (60000024).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$10,400, “Fy19-20 Purdue Research Foundation (PRF) Summer Faculty Grants (60000024).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$582,483, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$162,000, “Fy2019-20 International Travel Grants.”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

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Bolin, Jeffrey T; Executive Vice President for Research & Partnerships Administration, from Purdue Research Foundation, \$30,657, “19-20 Purdue Research Foundation (PRF) Research Grants (60000025).”

Boltasseva, Alexandra; Jacob, Zubin and Shalae, Vladimir M; electrical & computer engineering, from U.S. Department of Energy, \$436,385, “Control of Light-Matter Interaction with Epsilon-Near-Zero Homogeneous Alternative Plasmonic.” (a Discovery Park award – Birk Nanotechnology Center)

Boor, Brandon E; civil engineering, from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Inc, \$15,346, “Reproducing a Representative Urban Atmospheric Aerosol Distribution at High Concentration in the Laboratory for Air Filter Ageing to Be Used in American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) GPC 35P for Determining the.”

Boudouris, Bryan W and Savoie, Brett; chemical engineering, from Air Force Office of Scientific Research, \$198,702, “Manipulating the Spatial, Charge Transfer, and Energetic Interactions of Open-Shell Moieties in Multifunctional, Low Glass Transition Temperature Radical Polymers.”

Bouman, Charles A; Buzzard, Gregory T; Chan, Stanley H and Simpson, Garth J; electrical & computer engineering, mathematics, chemistry, from National Science Foundation, \$300,000, “CIF: Medium: Multi-Agent Consensus Equilibrium: Modular Methods for Integrating Disparate Sources of Expertise.”

Braun, James E; mechanical engineering, from Kulthorn Kirby, \$25,000, “Center for High Performance Building Consortium (Kulthorn Kirby PCL).”

Braun, James E; mechanical engineering, from Belimo Holding AG, \$50,000, “Center for High Performance Building Consortium (Belimo Holding AG).”

Braun, James E; mechanical engineering, from Whirlpool Corp, \$25,000, “Center for High Performance Building Consortium (Whirlpool Corp).”

Brooke, Jarred M; forestry & natural resources, from Huntington Cty Soil Water Conservation District, \$150, “Voluntary Support – Brooke.”

Buckmaster, Dennis; Krogmeier, James V; Saraswat, Dharmendra and Ward, Mark Daniel; agricultural & biological engineering program, electrical & computer engineering, statistics, from National Institute of Food & Agriculture, \$475,993, “Experiential Learning with Data Tools for Digital Agriscience and Fact.”

Buhman to Field

Buhman, Kimberly K; nutrition science, from University of Western Ontario, \$5,000, "Eef1a1 and Non-Alcoholic Fatty Liver Disease."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$25,000, "Apt Capital Expenditure Account."

Byrn, Stephen Robert and Clase, Kari L; industrial & physical pharmacy, technology leadership and innovation, from National Institute for Pharmaceutical Technology and Education, \$319,989, "Pharmaceutical Quality Scorecards."

Campbell, Noll L; pharmaceutical practice, from PHS-NIH National Institute on Aging, \$691,971, "Reducing Risk of Dementia through De-Prescribing (R2D2)."

Campbell, Wayne W; nutrition science, from University of Texas Medical Branch, \$12,347, "A Meal-Based Comparison of Protein Quality, Complementary Proteins and Muscle Anabolism."

Cannon, Jason R and Rochet, Jean-Christophe; health sciences, medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Environment Health Science, \$348,071, "Mechanisms of Phip-Induced Dopaminergic Neurotoxicity."

Carroll, Chad C; health & kinesiology, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$45,016, "Diabetes, Advanced Glycation, and Tendinopathy."

Casteel, Shaun N; agronomy, from Fluid Fertilizer Foundation, \$5,000, "Soybean Extension Research."

Casteel, Shaun N; agronomy, from Indiana Soybean Alliance, \$76,000, "Sulfur Synergies in Soybean Management: Year 2."

Casteel, Shaun N; agronomy, from BASF Corporation, \$12,500, "Soybean Extension Research."

Casteel, Shaun N; agronomy, from Helena Agri-Enterprises, LLC, \$9,500, "Soybean Extension Research."

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

Christian, John A; comparative pathobiology, from Western University of Health Sciences, \$9,425, "Cytology Resource Center (40001198)."

Comer, Douglas E; computer science, from Defense Advanced Research Projects Agency, \$418,788, "DCnet: a Scalable Data Center Network Architecture."

Connor, Robert J and Dick, Stephen M; civil engineering, from Gannett Fleming Inc, \$80,060, "Development and Qualification of Ut Inspection Procedures for Njta Bridge No. P0.00."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$225,000, "Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center (21000236)."

Dadarlat, Marius D; mathematics, from National Science Foundation, \$61,608, "Operator Algebras, Groups and Topological Invariants."

Deering, Amanda J; food science, from Sterilex, \$2,700, "Multi Sponsored Gift Account."

Deering, Amanda J; food science, from Institute of Food Technologists, \$3,000, "IFT Research Award."

DeLaurentis, Daniel A; Ezra, Kristopher L and Raz, Ali Khalid; aeronautics & astronautics, from Science Applications International, \$75,000, "SAIC Mod 12 Ti 204 CPS." (a Discovery Park award – Institute for Global Security and Defense Innovation)

DeLaurentis, Daniel A; aeronautics & astronautics, from Leidos, \$28,942, "Based Trajectory Design for High-Speed Attack Munitions; Amendment 7; Grant 13000517."

DeWoody, James Andrew; forestry & natural resources, from Texas A&M Agrilife Research, \$26,082, "Conservation Genetics and Genomics of Massasauga Rattlesnakes (Sistrurus Tergeminus Edwardsii)."

Donkin, Shawn S; animal sciences, from Novus International Inc., \$66,696, "Evaluation of Supplemental Methionine Hydroxy Analog with or without Cinnamaldehyde and Garlic Oil on Lactation Performance in Dairy Cattle."

Egel, Daniel S; botany & plant pathology, from Biosafe Systems, LLC, \$3,200, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Certis USA LLC, \$3,000, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Stoller Enterprises, Inc., \$7,000, "Potassium Management."

Ekenstedt, Kari J; basic medicine science, from Morris Animal Foundation, \$5,000, "Genetic Investigation of Congenital Hypomyelinating Polyneuropathy in Golden Retrievers."

El Gamal, Ali; Krogmeier, James V; Love, David J; Michelusi, Nicolo and Peleato-Inarrea, Borja M; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$375,000, "Adaptive Wireless Networks for Spectrally Efficient Communication."

Elliott, Julie L; earth, atmospheric and planetary sciences, from Columbia University, \$21,065, "Tectonic and Magmatic Processes During Early-Stage Rifting: An Integrated Study of Northern Lake Malawi, Africa."

Emmons, Amanda J; business offices, from National 4-H Council, \$2,484, "4-H Youth Programs."

Engel, Bernard A; agricultural & biological engineering program, from Agricultural Research Service, \$85,000, "WEPP Model Development, Testing and Support."

Erasmus, Marisa A and Ni, Jiqin; animal sciences, agricultural & biological engineering program, from U.S. Poultry & Egg Association, \$79,879, "Improving Cage Free Air Quality, Hen Welfare and Egg Quality with Artificial Turf and a Manure Removal System."

Eremenko, Alexandre; mathematics, from National Science Foundation, \$71,788, "Geometric Methods in the Analytic Theory of Differential Equations."

Farkas, Brian E; food science, from Doucette, Jarrod & Suzanne, \$105, "Multi Sponsored Gift Fermentation."

Field, William E; agricultural & biological engineering program, from Farm Credit Services of Mid-America, Aca, \$12,000, "Breaking New Ground."

Field, William E; agricultural & biological engineering program, from Life Essentials, LLC, \$3,668, "Breaking New Ground."

Flaherty to Hogenesch

Flaherty, Daniel P; Das, Chittaranjan and Ha, Lisha; medicinal chemistry & molecular pharmacology, chemistry, from University of Rochester, \$390,074, “Antibacterial Inhibitors of RnpA; Amendment 1; Grant 11000752.”

Fox, Edward A; psychological sciences, from Prader-Willi Syndrome Association USA, \$75,598, “Enhancing Satiety Signaling to Reduce Overeating and Obesity in Prader-Willi Syndrome.”

Frueh, Carolin E; aeronautics & astronautics, from Applied Optimization, Inc, \$29,968, “Data Integrity for Ssa.”

Fulkerson, Christopher M and Ogata, Niwako; veterinary clinical sciences, from Healthy Hemp Pet Company, \$36,552, “Pharmacokinetics and Toxicity of a Commercially Available CBD Oil Product in Laboratory Dogs.”

Garimella, Suresh V; Irazoqui, Pedro; Kinzer-Ursem, Tamara L; Beck, Kaethe A; Dai, Mingji; Delp, Edward J; Eicher-Miller, Heather A; Lee, Chi Hwan; Lee, Hyowon; Linnes, Jacqueline C; Park, Kinam; Sen, Shreyas; Shashurin, Alexey; Simpson, Garth J; Yeo, Yoon; Zhu, Fengqing and Alam, Muhammad A; Birck Nanotechnology Center, electrical & computer engineering, biomedical engineering, chemistry, nutrition science, mechanical engineering, aeronautics & astronautics, industrial & physical pharmacy, from Eli Lilly and Company, \$5,309,182, “Eli Lilly Connected Solutions 2019.”

Gerber, Corey K; agronomy, from Co-Alliance, \$2,750, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Dow Agro Sciences, \$4,000, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Association of Prof Crop Consultants, \$2,100, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Indiana Certified Crop Advisors, \$5,250, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Nutrien Ag Solutions, \$2,800, “Crop Diagnostic Training and Research Center.”

Gerber, Corey K; agronomy, from Pioneer Hi-Bred International, Inc., \$5,250, “Crop Diagnostic Training and Research Center.”

Gizachew, Dawit and Ting, Wei-Tsyi Evert; chemistry & physics, biological sciences, from Indiana Academy of Science, \$2,999, “Effect of Water Activity and Temperature on Fungal Growth and Mycotoxin Production on Ground Flax Seeds.”

Gore, Jay P; mechanical engineering, from John Zink Company, \$10,000, “Turbulent Combustion Lab.”

Grama, Ananth Y; computer science, from National Science Foundation, \$49,365, “2019 Aspiring Computer Systems Research (CSR) PIs Workshop.”

Grama, Ananth Y; computer science, from Case Western Reserve University, \$37,118, “Theoretical Foundations and Software Infrastructure for Biological Network Databases; Amendment 2; Grant 11000666.”

Grant, Richard H; agronomy, from Colorado State University, \$2,500, “Climatological Monitoring of Ultraviolet Radiation.”

Groll, Eckhard A; Kurtulus, Orkan and Ziviani, Davide; education administration, mechanical engineering, from Solvay Specialty Polymers USA, LLC, \$69,020, “Polymer Cylinder Head Pressure Testing.”

Guan, Wenjing; horticulture & landscape architecture, from Sustena Inc, \$2,400, “General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from United Genetics Seed Company, \$700, “General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Syngenta Seeds, Inc., \$1,500, “General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Seedway, \$1,500, “General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Hazera Seeds USA Inc, \$1,050, “General Research Activities.”

Gupta, Sumeet Kumar; electrical & computer engineering, from Pennsylvania State University, \$92,782, “E2CDA: Type II: 2D Electrostrictive FETs for Ultra-Low Power Circuits and Architectures.”

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$7,600, “Analysis and Design of Fixed Equipment.”

Hamaker, Bruce R and Ricker-Gilbert, Jacob E; food science, agricultural economics, from Agency for International Development, \$749,327, “Phase II – Sustainable Reduction of Post-Harvest Losses in Feed the Future Countries through Technologies and Innovations that Link Farmers to Markets: Focus on Kenya and Senegal.”

Hamilton, Roy L; Education Opportunities Program, from U.S. Department of Education, \$627,981, “Purdue University Northwest Upward Bound Program.”

Harbin, Sherry L and Puls, Theodore J; basic medicine science, biomedical engineering, from Geniphs LLC, \$30,000, “Collymer Sheet Production and Testing.”

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

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

Hertel, Thomas W; agricultural economics, from Executive Office of the President, \$20,435, “Global Trade Analysis Project (GTAP) Consortium (Council of Economic Advisors).”

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

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

Hertel, Thomas W; agricultural economics, from Centre Detudes Prosp Et Dinfo International, \$20,435, “Global Trade Analysis Project (GTAP) Consortium (CEPII).”

Hogenesch, Harm and Asem, Elikplimi K; veterinary medicine administration, basic medicine science, from Boehringer Ingelheim Animal Health Inc., \$15,000, “Boehringer Ingelheim Veterinary Scholars Program.”

Hook to Matson

Hook, Tomas O and **Quagraine, Kwamena K**; forestry & natural resources, agricultural economics, from Illinois Cooperative Extension Service, \$68,431, “2018-2022 Agreement Between Purdue and Illinois Cooperative Extension Service, University of IL.”

Hook, Tomas O and **Beugly, Jayson S**; forestry & natural resources, from U.S. Department of Interior, \$48,000, “Development and Evaluation of Methods for Custodial Maintenance of Fish Spawning Reefs- Year 2 Funds.”

Hoverman, Jason T; forestry & natural resources, from National Science Foundation, \$7,000, “Collaborative Research: Disease Ecology in the Midst of Anthropogenic Stressors: Exploring the Influence of Pesticides on Host-Parasite Interactions.”

Hu, Changdeng; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$497,903, “Role and Targeting of PRMT5 in Prostate Cancer.”

Johnson, William G and **Young, Bryan G**; botany & plant pathology, from Monsanto Company, \$6,930, “Competitive Soybean System Comparison-North.”

Johnson, William G; botany & plant pathology, from Agrimetis, \$6,600, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Valent Biosciences Corporation, \$23,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Monsanto Company, \$35,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from United Phosphorus Inc, \$13,500, “Weed Science Research Voluntary Support.”

Kate, Aniket Pundlik; computer science, from Torus Labs Ltd, \$29,975, “Multi Voluntary Support.”

Kate, Aniket Pundlik; computer science, from Keyless Technologies Ltd, \$17,500, “Multi Voluntary Support.”

Kazemian, Abdolmajid; biochemistry, from PHS-NIH National Heart, Lung & Blood Institute, \$249,000, “Expression, Regulation and Role of Enhancer RNAs in T Cells.”

Keehn, Brandon M and **Emir, Uzay E**; speech, language & hearing sciences, health sciences, from Kinley Trust, \$19,800, “An Investigation of Atypical Sensory Suppressive Interactions in Autism Spectrum Disorder.”

Keehn, Brandon M; speech, language & hearing sciences, from National Institutes of Health, \$187,994, “Understanding Attentional Strengths and Weaknesses in Autism Spectrum Disorder.”

Kildishev, Alexander V; electrical & computer engineering, from Pennsylvania State University, \$302,500, “ACTEOM – Advanced Computational Toolkit for Engineered Optical Materials; Amendment 6.”

Kim, Young L; biomedical engineering, from Air Force Office of Scientific Research, \$100,000, “Integrated Approaches of Physically Unclonable Cryptographic Primitives Using Random Lasers and Optoelectronics.”

Krupke, Christian H; entomology, from United Soybean Board, \$281,818, “Evaluating a Novel Seed Lubricant to Reduce Dust-Off During Planting.”

Kuang, Shihuan; **Elzey, Bennett D** and **Konieczny, Stephen F**; animal sciences, comparative pathobiology, biological sciences, from PHS-NIH National Cancer Institute, \$343,925, “Notch Signaling in Liposarcoma.”

Langenhoven, Petrus; horticulture & landscape architecture, from Mint Industry Research Council, \$5,000, “Mint Industry Research.”

Lee, Kyoungsoo; physics & astronomy, from National Aeronautics and Space Administration, \$121,460, “The Rise and Fall of Dusty Star Formation in Clusters and Protoclusters Measured by Herschel and Wise.”

Lee, Kyoungsoo; physics & astronomy, from National Aeronautics and Space Administration, \$121,460, “The Rise and Fall of Dusty Star Formation in Clusters and Protoclusters Measured by Herschel and Wise.”

Lempert, Laszlo; mathematics, from National Science Foundation, \$90,550, “Complex Analysis and Geometry.”

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$7,500, “Multi Sponsored Gift- Sensory.”

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

Liceaga, Andrea M; food science, from The Wornick Company, \$6,000, “Multi Sponsored Gift- Sensory.”

Lin, Xiaozhu; electrical & computer engineering, from National Science Foundation, \$99,719, “Faculty Early Career Development (CAREER): A Trustworthy and Verifiable Software Backplane for the Cloud Edge.”

Lyutikov, Maxim Y and **Route, Matthew P**; physics & astronomy, research computing administration, from Fund for Astrophysical Research, \$2,975, “Brown Dwarfs Magnetism.”

Mahmoudian, Nina; mechanical engineering, from National Science Foundation, \$90,741, “Faculty Early Career Development (CAREER): Autonomous Underwater Power Distribution System for Continuous Operation.”

Manfra, Michael James; electrical & computer engineering, from Microsoft Corporation, \$1,546,610, “Microsoft Quantum Computing – Year 2 Revision.” (a Discovery Park award – Birck Nanotechnology Center)

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Jeju National University, \$51,200, “Purdue Jeju National Software Oriented University Summer Program 2019.”

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Dongguk University, \$25,600, “Purdue Dongguk Software Oriented University Summer Program 2019.”

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Kyung Hee University, \$10,240, “Purdue Kyung Hee Software Oriented University Summer Program 2019.”

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Kyungpook National University, \$25,600, “Purdue Kyungpook Software Oriented University Summer Program 2019.”

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Chung-Ang University, \$20,480, “Purdue Chung-Ang University Software Oriented University Summer Program 2019.”

Matson to Pujol

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Sejong University, \$10,240, "Purdue Sejong Software Oriented University Summer Program 2019."

Matson, Eric T and **Smith, Anthony H**; computer information technology, from Sogang University, \$30,720, "Purdue Sogang Software Oriented University Summer Program 2019."

Mauer, Lisa J; Aime, Mary Catherine; Allebach, Jan P; Applegate, Bruce M; Bae, Euiwon; Bhunia, Arun K; Chiu, George T; Deering, Amanda J; Mousoulis, Charilaos; Oliver, Haley F; Peroulis, Dimitrios; Pruitt, Robert E; Rajwa, Bartlomiej P; Robinson, Joseph Paul and **Stanciu-Gregory, Lia A**; food science, botany & plant pathology, electrical & computer engineering, mechanical engineering, basic medicine science, materials engineering, from Agricultural Research Service, \$844,837, "Advanced Development of Innovative Technologies and Systematic Approaches."

McDaniel, Rebecca S; civil engineering, from North Dakota State University, \$4,300, "Perpetual Pavement Training for North Dakota."

McLuckey, Scott A; chemistry, from Eastman Chemical Company, \$7,000, "Eastman Foundation – Co-Op Student Caitlin Randolph."

Mei, Jianguo; chemistry, from National Science Foundation, \$107,796, "Faculty Early Career Development (CAREER): Impact of Flow-Induced Chain Alignment in Melt-Processed Complementary Semiconducting Polymer Blends."

Meyer, Scott E; mechanical engineering, from Inspace, LLC, \$112,042, "LOX/LCH4 Aerospike Testing on the 10k Stand."

Meyer, Scott E; mechanical engineering, from Ursa Major Technologies Inc, \$110,000, "Thruster Testing for URSA Major."

Mishra, Dharmendra K; food science, from Amcor Rigid Plastics USA, LLC, \$9,400, "Multi Sponsored Gift."

Mohammadi, Mohsen and **Scofield, Steven R**; agronomy, from Agricultural Research Service, \$20,306, "Acquisition of Goods and Services."

Mutchler, Jane F; business administration, from Indiana Economic Development Corporation, \$237,101, "Northwest Indiana Small Business Development Center 2019 (Federal Funds & PNW Match)."

Nagy, Zoltan; chemical engineering, from Takeda Pharmaceutical International Inc US Region, \$150,000, "Crystallization Monitoring."

Neumeister, Norbert; physics & astronomy, from Princeton University, \$20,000, "US Compact Muon Solenoid (CMS) Purdue University for Activities Related to US Compact Muon Solenoid (CMS) Common Operations."

Ni, Jiqin; agricultural & biological engineering program, from Bio Town Ag Inc, \$2,000, "Multi-Sponsored Gift Account."

Ohaire, Marguerite E; comparative pathobiology, from Purdue Doctoral Program, \$31,959, "Jensen,Clare, Lydia."

Ohaire, Marguerite E; comparative pathobiology, from Ross Graduate Fellowship-Assistantship, \$31,959, "Nieforth, Leanne O."

Olenchak, F Richard; educational studies, from Purdue University F N Andrews Fellowship, \$25,930, "Chiang, Alice."

Olenchak, F Richard; educational studies, from Ross Graduate Fellowship-Assistantship, \$31,270, "Grant, Janelle, Brittany."

Olenchak, F Richard; educational studies, from Ross Graduate Fellowship-Assistantship, \$31,270, "Tang, Xiuxiu."

Olenchak, F Richard; educational studies, from Ross Graduate Fellowship-Assistantship, \$31,270, "Yang, Yao."

Oliver, Haley F; food science, from Diversey, Inc, \$45,126, "Study 10.1.2: Risk of Cross Contaminating a 2m Sterile Surface (P. Aeruginosa and C. Difficile)."

Oliver, Haley F; food science, from Diversey, Inc, \$37,635, "Study 10.1.1 Disinfectant Wipes and Risk of Cross-Contamination on Surfaces Inoculated with Staphylococcus Aureus."

Paniagua Perez, Guillermo; mechanical engineering, from MBDA France, \$198,041, "Compact Expansion Machine for Supersonic Flows."

Parashar, Neeti; chemistry & physics, from University of Notre Dame, \$3,600, "QuarkNet Program at Purdue University Northwest."

Pastakia, Sonak D; pharmaceutical practice, from New York University, \$23,931, "Bridging Income Generation with Group Integrated Care."

Patton, Aaron J; horticulture & landscape architecture, from Pioneer Hi-Bred International, Inc., \$7,000, "Assessment of Rinskor Herbicide #2019-02."

Pekarek, Steven D; electrical & computer engineering, from Kohler Company, \$22,000, "Kohler – Student Assist."

Peng, Chunyi; computer science, from National Science Foundation, \$123,463, "Faculty Early Career Development (CAREER): Amplifying Intelligence in Mobile Networked Systems."

Peroulis, Dimitrios; electrical & computer engineering, from Harris Corporation, \$75,000, "Center for Electronic Defense Systems (CEDs) Consortium (Harris Corp.)." (a Discovery Park award – Birk Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Landauer Inc., \$75,000, "Center for Electronic Defense Systems (CEDs) Consortium (Landauer)." (a Discovery Park award – Birk Nanotechnology Center)

Pinal, Rodolfo; industrial & physical pharmacy, from Abbvie Inc, \$40,000, "Center for Pharmaceutical Processing Research Consortium (Abbvie Inc.)."

Pipes, R Byron; Barocio Vaca, Eduardo and **Favaloro, Anthony J**; materials engineering, Composites Manufacturing & Simulation Center, from Idaho National Laboratory, \$30,000, "Macroscopic Modeling for Additive Manufacturing of Stainless Steel."

Pothen, Alex; computer science, from Pacific Northwest National Laboratory, \$118,063, "Exagraph: Combinatorial Methods for Enabling Exascale Applications, Mod 3; Grant 14000319."

Prabhakar, Sunil K; computer science, from National Physical Science Consortium, \$5,000, "NPSC Fellowship for Amber Johnson (40001232)."

Prokopy, Linda S; forestry & natural resources, from Nature Conservancy, the, \$147,000, "High Stakes Incentive Payments for NOLs."

Pujol, Santiago; civil engineering, from Wiss, Janney, Elstner Associates, Inc., \$2,500, "Tests of #20 (2.5-IN Diameter) Bars and Couplers."

Purpura to Shakouri

Purpura, David J; human development & family studies, from National Science Foundation, \$290,573, “Faculty Early Career Development (CAREER): Mechanisms Underlying the Relation Between Mathematical Language and Mathematical Knowledge.”

Raman, Arvind; Burniske, Andrea E; Burniske, Gary R; Sinfeld, Joseph V and Yih, Yuehwern; education administration, global engineering programs, agronomy, civil engineering, industrial engineering, from Agency for International Development, \$7,527,110, “LASER Partners for University-LED Solutions Engine (PULSE).”

Rayz, Vitaliy L and Vlachos, Pavlos; biomedical engineering, mechanical engineering, from PHS-NIH National Institute Neurological Disorders and Stroke, \$183,142, “Multi-Modality 4d Flow Magnetic Resonance Imaging (MRI) Data Enhancement for Quantification of Cerebral Aneurysms Hemodynamics.”

Rhoads, Jeffrey Frederick; Chiu, George T and Son, Steven F; mechanical engineering, from Defense Threat Reduction Agency, \$180,000, “Securemems: Fundamental Research in Microelectromechanical System (MEMS)/Energetic Material Integration.”

Ribeiro, Fabio H; chemical engineering, from Rapid Response Research (RAPID) Manufacturing Institute, \$5,000, “Cistar Industrial Consortium (40001938).”

Richert, Brian T and Radcliffe, John Scott; animal sciences, from Azomite Mineral Products Inc, \$20,725, “Exploratory Study to Assess the Effect of a Rhyolitic Tuff Breccia (Azomite).”

Ridgway, Kenneth D; earth, atmospheric and planetary sciences, from U.S. Geological Survey, \$17,500, “Establishing a Structural Framework for Denali National Park and Preserve, Alaska: Geologic Mapping of Cretaceous-Eocene Strata.”

Riley, Donna M; engineering education, from Ross Graduate Fellowship-Assistantship, \$31,959, “Sorg, Anna C.”

Rollock, David; psychological sciences, from Purdue Doctoral Program, \$16,509, “Noland, Elisabeth S.”

Rollock, David; psychological sciences, from Ross Graduate Fellowship-Assistantship, \$18,688, “Harold, Roslyn, B.”

Rossmann, Michael G and Kuhn, Richard J; biological sciences, from Vanderbilt University, \$224,750, “Structural and Functional Basis of Ultra Potent ChkV Neutralization by Human mAbs.”

Sadeghi, Farshid; mechanical engineering, from Siemens Energy & Automation Inc., \$12,400, “Tribology Research on Gas Turbine Inlet Ring and Spring Clip Designs.”

Salazar, Kara A; Indiana-Illinois Sea Grant, from Radius Indiana Inc, \$300, “Voluntary Support- Salazar.”

Sandhage, Kenneth H and Sangid, Michael D; materials engineering, aeronautics & astronautics, from Rolls-Royce Corporation, \$61,000, “Fatigue of SiC-Based Composites.”

Sandhage, Kenneth H; materials engineering, from Rolls-Royce Corporation, \$110,000, “Chemical Interactions Between Silicon-Based Liquids and Silicon Carbide: Thermodynamic and Kinetic Analyses.”

Sanmiguel, Sandra F; Burgess, Wilella Daniels and Parker, Loran Carleton; veterinary medicine administration, Evaluation and Learning Research Center, education administration, from PHS-NIH Office of the Director, \$233,690, “This is How We Role: Inspiring Future Researchers through Veterinary Medicine.”

Sanson, Jeffrey J and Fansler, John W; agricultural economics, agricultural economics Indiana Council for Economic Education (ICEE) extension, from Federal Reserve Bank of Chicago, \$25,000, “Money Smart Week Indiana Campaign Coordination & Promotion.”

Savaiano, Dennis A; nutrition science, from Indiana University Purdue University at Indianapolis, \$32,000, “Indiana Chronic Disease Coalitions.”

Schellhase, Ellen M; pharmaceutical practice, from Indiana Campus Compact, \$1,000, “Low Cost Compression Therapy for Treatment of Lymphedema in Kaposi Sarcoma.”

Schneider, Steven P and Chynoweth, Brandon C; aeronautics & astronautics, from Raytheon, \$10,000, “Hypersonic Wind Tunnel Testing of Sensors and Actuators.”

Schneider, Steven P; aeronautics & astronautics, from Air Force Office of Scientific Research, \$50,000, “Towards Experimental Measurements of Boundary-Layer Transition at the Holloman Test Track: Initial Planning.”

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$148,522, “Pre-Clinical Evaluation Testing Agreement Studies: CE-HECS/CMH-TSBS, CMH-TPOC, CMH-TSTR, CMH-TBCD-POC, CMH-VTMD, CMH-VCTL-POC, CMH-THIN, CMH-ELPK, CI-UBBP, CE-HEFF, POC and Sentinels..”

Scott, David E; Indiana state chemist, from Environmental Protection Agency, \$193,448, “FY 2019 Pesticide Cooperative Agreement.”

Searle, Catherine L and Christie, Mark R; biological sciences, forestry & natural resources, from National Science Foundation, \$401,363, “Evolutionary Rescue in Response to Infectious Disease: When Will Populations Be Rescued from Pathogens?”

Seigfried-Spellar, Kathryn C and Laux, Dawn D; computer information technology, from National Security Agency, \$96,953, “Purdue University Cybersecurity Camp.”

Seleem, Mohamed; comparative pathobiology, from Ross Graduate Fellowship-Assistantship, \$31,069, “Wang, Shukun.”

Seleem, Mohamed; comparative pathobiology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$446,984, “Repurposing Auranofin and Ebselen for Treatment of Multidrug Resistant Pathogens.”

Shakouri, Ali; electrical & computer engineering, from Applied Materials, \$8,750, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Applied Materials Inc.”

Shakouri, Ali; electrical & computer engineering, from Carrier Corporation, \$35,000, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Carrier (UTC).” (a Discovery Park award – Birck Nanotechnology Center)

Sheehan to Vacca

Sheehan, Amy Heck; pharmaceutical practice, from PHS-Food and Drug Administration, \$40,000, “Intergovernmental Personnel Assignment (IPA) Assignment Agreement for Regulatory Pharmaceutical Fellowship – Jacqueline Wasynczuk.”

Sheehan, Amy Heck; pharmaceutical practice, from PHS-Food and Drug Administration, \$40,000, “Intergovernmental Personnel Assignment (IPA) Assignment Agreement for Regulatory Pharmaceutical Fellowship – Kaitlin Montagano.”

Sheehan, Amy Heck; pharmaceutical practice, from Takeda Pharmaceutical International Inc US Region, \$162,076, “Purdue/Takeda Pharmaceuticals Early Clinical Trial Operations Fellowship.”

Sheffield, John W; engineering technology, from International Association for Hydrogen Energy, \$10,000, “IAHE Expenses (Orig. 30001562).”

Shih, Tom I-P; aeronautics & astronautics, from Purdue Doctoral Program, \$31,959, “Maldonado, Juan, Camilo.”

Shively, Gerald E; agricultural economics, from Tufts University, \$129,258, “Nutrition Innovation Lab Year 9 – Purdue 2018/2019.”

Slabaugh, Carson D; aeronautics & astronautics, from IN Space, LLC, \$23,000, “Testing of Novel Concepts for Upper Stage Liquid Rocket Engines.”

Snyder, Margie E and Murawski, Matthew M; pharmaceutical practice, from PHS-Agency for Healthcare Research & Quality, \$511,321, “An Evaluation of the Spread and Scale of Patient-to-Patient Care from Primary Care to Community Pharmacy Practice for the Collection of Patient-Reported Outcomes.”

Snyder, Margie E; pharmaceutical practice, from University of Cincinnati, \$24,865, “Pilot Testing a Community Pharmacy-Delivered Prescription Drug Monitoring Program-Based Clinical Decision Support Intervention Tool.”

Snyder, Margie E; pharmaceutical practice, from University of Cincinnati, \$12,814, “Ohio Valley Node-Network (OVNN) of the NIDA Clinical Trials Network.”

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, \$40,950, “High-Frequency Surface and Near-Surface Temperature Measurements of Burning Composite Propellants – Fellowship for Westphal.”

Sparkling, Anthony E; construction management technology, from SouthWest Electrical Contracting Services, \$2,000, “Purdue Incubation Laboratory Contractors.”

Sparkling, Anthony E; construction management technology, from Greg Schriefer, \$500, “Purdue Incubation Laboratory Contractors.”

Strachan, Alejandro H and Titus, Michael S; materials engineering, from U.S. Department of Energy, \$227,779, “Role of Nanoscale Coherent Precipitates on the Thermo-Mechanical Response of Martensitic Materials.” (a Discovery Park award – Network for Computational Nanotechnology)

Strachan, Alejandro H; materials engineering, from U.S. Department of Energy, \$227,779, “Shape Memory in Nanoscale Metallic Alloys.”

Straw, Mark L; animal sciences, from Indiana State Department of Health, \$1,036, “Developing a Rapid Response Research (RAPID) Response Team (RRT).”

Sutherland, John W; environmental & ecological engineering, from Knauf Insulation, \$15,000, “Indianas Next Generation Manufacturing Competitiveness Center Focus Area Consortium.”

Tan, Hong Z; electrical & computer engineering, from Google Inc, \$46,124, “Google.”

Tarko, Andrew P; civil engineering, from Indiana Department of Transportation, \$100,000, “Indiana Department of Transportation (INDOT) Road Network Screening for Safety Needs.”

Tay, Sien Chieh; psychological sciences, from University of Pennsylvania, \$285,638, “The Humanities and Human Flourishing: a Multi-Disciplinary Collaboration for Understanding, Cultivating, and Assessing Well-Being.”

Taylor, Lynne S; industrial & physical pharmacy, from Abbvie Inc, \$504,555, “Understanding and Optimizing Dissolution Performance and Mitigation of Crystallization in High Drug Loading Amorphous Solid Dispersion Formulations.”

Telenko, Darcy E P; botany & plant pathology, from United Phosphorus Inc, \$3,000, “Extension Voluntary Support.”

Tesini Roseguini, Bruno; health & kinesiology, from PHS-NIH National Institute on Aging, \$190,917, “Heat Therapy for Intermittent Claudication.”

Tonnson, Bridgette L and Rague, Lisa M; psychological sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$38,616, “Analysis of Early Vocalization Features in Children at High Genetic Risk for Autism – Lisa (Rague) Hamrick.”

Topp, Elizabeth M; industrial & physical pharmacy, from National Institute for Innovation in Manufacturing Biopharmaceuticals, \$76,961, “Improving Lyophilization of Recombinant Proteins with ssHDX-MS.”

Topp, Elizabeth M; industrial & physical pharmacy, from Monon Bioventures LLC, \$4,620, “Monon Bioventures- Tollar Support.”

Topp, Elizabeth M; Sharp, Mark E; Alexeenko, Alina and Clase, Kari L; industrial & physical pharmacy, pharmacy administration, aeronautics & astronautics, agricultural & biological engineering program, from National Institute for Innovation in Mf Bio, \$50,000, “Online Lyophilization Short Course (NIIMBL).”

Tu, Manghui; computer information technology & graphics, from National Security Agency, \$98,747, “Hoosier Gencyber Student Summer Camps Across the State of Indiana.”

Ulrich, Bernd; mathematics, from National Science Foundation, \$105,834, “Implicitization, Residual Intersections, and Differential Methods in Commutative Algebra.”

Underwood, Marion K; psychological sciences, from PHS-NIH National Institute of Child Health and Human Development, \$252,114, “Social Aggression: Growth, Outcomes, and Digital Communication.”

Vacca, Andrea; agricultural & biological engineering program, from NFPA Education and Technology Foundation, \$1,000, “Multi Sponsored Gift.”

Vijaykumar to Zhang

Vijaykumar, T N and **Thottethodi, Mithuna S**; electrical & computer engineering, from SK Hynix Inc, \$329,240, "Assessing Software Organization and Feasibility of Machine Learning Workloads for an Accelerator-In-Memory Architecture."

Vyn, Tony J; agronomy, from Monsanto Company, \$89,554, "Determination of Plant N Efficiency Gains in Elite Corn Hybrids Exposed to Varying N Management: Year 2."

Vyn, Tony J; agronomy, from Deere & Company, \$93,997, "Mid to Late Season N Placement."

Wang, Changyou; mathematics, from National Science Foundation, \$80,000, "Mathematical Analysis of Nematic Liquid Crystals and L-Infinity Variational Problems."

Wang, Haiyan; materials engineering, from National Science Foundation, \$250,000, "Collaborative Research: Eccs-Epsrc: Development of Uniform, Low Power, High Density Resistive Memory by Vertical Interface and Defect Design."

Wang, Xiaoming; engineering technology, from Advanced Technology International, \$27,229, "On-Demand Casting of Net-Shape Titanium Components for Improved Weapon Systems."

Wassgren, Carl R; mechanical engineering, from Genentech Corporation, Inc., \$50,000, "Hopper Flow Modeling."

Wei, Alexander; chemistry, from Charles Schwab, \$27,067, "Wei Gift Funds."

Weibel, Justin A; mechanical engineering, from Dow Chemical Company, the, \$30,000, "Cooling Technologies Research Center (CTRC) (40001184)."

Weibel, Justin A; mechanical engineering, from Aavidthermalloy, \$15,000, "Cooling Technologies Research Center (CTRC) (40001184)."

Whelton, Andrew J; Proctor, Caitlin R; Shah, Amisha D and **Yu, Jae Hoon David**; civil engineering, environmental & ecological engineering, from Paradise Irrigation District, \$8,175, "Field Support for in Response to the 2018 Camp Fire."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$20, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$20, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$10, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Mason Jr, Max C or Marsha, \$500, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$20, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$30, "Voluntary Support."

Williams, Rod N; forestry & natural resources, from Multi-Sponsored Industrials, \$10, "Voluntary Support."

Wu, Wenzhuo and **Ye, Peide**; industrial engineering, electrical & computer engineering, from National Science Foundation, \$16,000, "Research Experience for Undergraduates (REU) Supplement: Scal-

able Nanomanufacturing of Large-Area Two-Dimensional Tellurene for High-Performance Wearable Piezoelectric Devices."

Xu, Dongyan; Deng, Xinyan and **Zhang, Xiangyu**; Engineering Projects in Community Service (EPICS), mechanical engineering, from Office of Naval Research, \$260,000, "A Cross-Layer Framework for Retrofitting Robotic Vehicle Controllers."

Xuan, Yi; electrical & computer engineering, from Indiana University, \$25,460, "Fabrication of Si Microneedle Arrays." (a Discovery Park award – Birck Nanotechnology Center)

Yang, Fenggang and **Tong, Yunping**; sociology, from University of Notre Dame, \$28,000, "Does Religion Matter? a Study of Sex Ratio at Birth, Son Preference, and Abortion Attitude in Contemporary China."

Ye, Peide; electrical & computer engineering, from Applied Materials, \$45,000, "AMAT Gift." (a Discovery Park award – Birck Nanotechnology Center)

Yeung, Sai Kee; mathematics, from National Science Foundation, \$70,251, "Moduli and Surfaces in Complex Geometry."

Yih, Yuehwern; Burgess, Wilella Daniels and **Sinfield, Joseph V**; industrial engineering, education administration, civil engineering, from Agency for International Development, \$1,687,578, "LASER Buy-In: Building the Evidence Base on Effective Private Sector Engagement Phase 2."

Young, Bryan G and **Johnson, William G**; botany & plant pathology, from Pioneer Hi-Bred International, Inc., \$10,000, "Corteva Large-Scale Otm of Gf-3736 (2019) – #2019-01."

Young, Bryan G; botany & plant pathology, from Syngenta Crop Protection Inc., \$30,000, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Weaver, Melvin R and Sons LLC, \$1,200, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Wilbur-Ellis Company, \$1,400, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from West Central, \$3,500, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from BASF Corporation, \$10,000, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Exacto Chemical Company, \$11,900, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Emery Oleochemicals LLC, \$4,675, "Multi Sponsored Gift Account."

Youngblood, Jeffrey P; materials engineering, from Oregon State University, \$49,237, "Advancement of Cellulose Nano-Materials Use in Cement Based Materials."

Zhang, Song; mechanical engineering, from John Deere Agricultural US, \$20,000, "High-Resolution Large Range 3-D Scanning System: 3-D Soil Profiler."

Zhang, Yiyang; electrical & computer engineering, from National Science Foundation, \$113,483, "Faculty Early Career Development (CAREER): A Disaggregated and Distributed Hardware and OS Framework for Next-Generation Datacenters."

Zhang to Zywicki

Zhang, Zhong-Yin and **Chen, Lan**; medicinal chemistry & molecular pharmacology, chemical genomics recharge, from Indiana University, \$93,000, “Development of an HTS Assay for Discovery of HBV cccDNA Inhibitors; Amendment 2, Grant 11000557.”

Zhou, Chenn Qian; Chen, Bin; Lee, Seokcheon and **Moreland, John R**; Center for Innovation through Visualization and Simulation, electrical & computer engineering, industrial engineering, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, \$69,627, “Visualization of Repair Operations Management for Networked Systems Resilience.”

Zhou, Chenn Qian and **Silaen, Armin K**; Center for Innovation through Visualization and Simulation, from Argonne National Laboratory, \$79,955, “Application of High-Performance Computing (HPC) to Optimize Reheat Furnace Efficiency in Steel Manufacturing.”

Zhou, Chenn Qian; mechanical & civil engineering, from Stelco, \$25,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.”

Zhou, Chenn Qian; mechanical & civil engineering, from AK Steel, \$45,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.”

Zhou, Qi and **Topp, Elizabeth M**; industrial & physical pharmacy, from Genentech Corporation, Inc., \$50,370, “Electrospray Drying for Protein Formulations.”

Zhu, Fengqing; electrical & computer engineering, from Google Inc, \$45,000, “Multi-Sponsored Gifts.”

Zook, Melinda S; history, from The Teagle Foundation, \$50,000, “Cornerstone Expansion Planning Grant.”

Zywicki, Stephanie M; curriculum & instruction, from Spencer Foundation, \$49,945, “Connecting Identity and Place: Understanding Indigenous Graduate Student.” ■

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