

Abbott to Bolin

Abbott, Angela R; health and human sciences administration, from Gene B. & Marilyn Glick Foundation, \$5,000, "Nutrition Education Program."

Abdel-Khalik, Hany S; nuclear engineering, from Ohio State University, \$67,200, "Big Data for Operation and Maintenance Cost Reduction; Amendment 1, Grant 14000482."

Adeola, Olayiwola; animal sciences, from DSM, \$100,000, "DSM."

Ajuwon, Kolapo; animal sciences, from Biomatrix Inc, \$22,000, "Nutritional Physiology Program."

Alexeenko, Alina; aeronautics & astronautics, from Pfizer Inc, \$10,000, "Advanced Lyophilization Technology Hub (Lyohub) Consortium (Pfizer)."

Alexeenko, Alina; aeronautics & astronautics, from Cook Biotech, Inc., \$10,000, "Advanced Lyophilization Technology Hub (Lyohub) Consortium (Cook Biotech)."

Alexeenko, Alina; aeronautics & astronautics, from Bristol-Myers Squibb Company, \$10,000, "Advanced Lyophilization Technology Hub (Lyohub) Consortium (Bristol-Myers)."

Alexeenko, Alina; aeronautics & astronautics, from AbbVie Inc, \$30,000, "Advanced Lyophilization Technology Hub (Lyohub) Consortium (AbbVie)."

Allebach, Jan P; electrical & computer engineering, from Xerox Corp, \$2,500, "Qiulin Chen Intership – Applications of Computer Vision and Machine Learning to Image Quality."

Arling, Gregory W and Hass, Zachary J; nursing, from University of Minnesota, \$166,075, "Evaluation of Minnesota Department of Human Services (DHS) Long-Term Care (LTC) Initiatives; Amendment to Subcontract."

Armstrong, S Dorsey; English, from Purdue Research Foundation (PRF) Summer Research Grants, \$861, "ENGL – SRG."

Armstrong, Shalamar D; Kladienko, Eileen J; Prokopy, Linda S and Morrow, Anna L; agronomy, forestry & natural resources, from North Carolina State University, \$715,863, "Enhancing the Sustainability of US Cropping Systems through Cover Crops and an Innovative Information and Technology Network."

Arrieta Diaz, Andres; mechanical engineering, from Anheuser-Busch Companies, \$223,395, "Design and Development of Smart Holder with Inherent Mechanical Response: Phase 2."

Asencio, Raquel; organizational behavior and human resources, from Army Research Office, \$45,000, "10.2 Social and Cognitive Networks: Exploring Effective Coordination Structures and Functioning in Multiteam Systems; Modification 3 for Grant #13000601."

Bagchi, Saurabh; Kate, Aniket Pundlik and Chatterji, Somali; electrical & computer engineering, computer science, agricultural & biological engineering program, from Army Research Laboratory, \$278,550, "Consensus Under Energy Constraints for Dynamic Distributed Cyber-Physical Systems."

Bane, Sally P M; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$26,128, "Tanbo Zhou."

Banerjee, Arnab; physics & astronomy, from Oak Ridge National Laboratory, \$23,360, "The Development and Analysis of Quantum Algorithms for Novel Applications."

Baributsa, Dieudonne; entomology, from Ian E Champ, \$20, "Post-Harvest Innovation for Crop Storage (PICS) Voluntary Support."

Beaudoin, Stephen P and Wassgren, Carl R; chemical engineering, mechanical engineering, from AbbVie Inc, \$271,997, "Purdue-AbbVie Collaboration on Powder Flow."

Beaulieu, Lionel J; Kumar, Indraneel; Wilcox, Michael D and Zhalin, Andriy V; food and agribusiness management, I-STEM cooperative extension service, from Rural Development, \$18,000, "The Rural Economic Development Innovation (REDI) Initiative."

Behrens, Sandra R; nursing administration, from Indiana University, \$219,169, "Northwest Indiana Area Health Center State Funds (2019-2020)."

Behrens, Sandra R; nursing administration, from Indiana University, \$91,636, "Northwest Indiana Area Health Center (Federal Funds 2019-20)."

Benjamin, Tamara J; horticulture/landscape architecture, from Indiana State Department of Health, \$2,300, "Farm to School Grant 20000320 and Amendment 2."

Bermel, Peter A; Alam, Muhammad A; Douglas, Kerrie A; Moore, Tamara J and Strachan, Alejandro H; electrical & computer engineering, engineering education, materials engineering, from Department of the Army, \$4,648,618, "Radiation-Hard Microelectronics Workforce Development Consortium."

Bianchi, Antonio; computer science, from Arizona State University, \$50,000, "CHECRS: Cognitive Human Enhancements for Cyber Reasoning Systems."

Bigelow, Cale A; horticulture/landscape architecture, from North Shore Country Club, \$700, "Putting Greens Research."

Bingham, Clifton W; Weinberg, Lindsay and Yeomans, Christopher L; computer science, polytechnic administration, philosophy, from National Science Foundation, \$216,908, "Fairness in Artificial Intelligence (FAI): Categorizing, Measuring, and Mitigating Algorithmic Fairness."

Biswas, Rudro R; physics & astronomy, from Sandia National Laboratories, \$17,631, "Reversible Computing Academic Alliance."

Blackstock, Stephanie A; Vice Chancellor for Finance & Administration administration, from Indiana Dunes National Lakeshore, \$1,000, "Indiana Dunes Tourism Grant 2020 – Marketing (Rustic Elegance in the Region)."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships administration, from Purdue Research Foundation, \$61,314, "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, \$367,884, "19-20 Purdue Research Foundation (PRF) Research Grants (60000025)."

Borovsky to Denos

Borovsky, Arielle; speech, language & hearing sciences, from Florida State University, \$21,233, "The Florida Learning Disabilities Research Center, Year 3 Funding; Grant 11000690."

Bowman, Mark D; Williams, Christopher S and Baah, Prince; civil engineering, civil & mechanical engineering, from Indiana Department of Transportation, \$437,241, "Nondestructive Testing (NDT) for Bridge Decks."

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

Braun, James E; mechanical engineering, from Emerson Climate Technologies, \$50,000, "Center for High Performance Building Consortium (Emerson Climate)."

Braun, James E; mechanical engineering, from Daikin Manufacturing Company, LP, \$25,000, "Center for High Performance Building Consortium (Goodman Manufacturing)."

Braun, James E; mechanical engineering, from Johnson Controls, Inc., \$50,000, "Center for High Performance Building Consortium – Johnson Controls (York International Corporation)."

Braun, James E; mechanical engineering, from Carrier Corporation, \$50,000, "Center for High Performance Building Consortium (Carrier Corporation)."

Buckmaster, Dennis; agricultural & biological engineering program, from Solinftec, \$15,000, "Oats Consortium."

Buzzard, Gregory T; mathematics, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,104, "MATH – SRG."

Cai, Hua; industrial engineering, from National Science Foundation, \$393,483, "Faculty Early Career Development (CAREER): Risk Modified Life Cycle Assessment."

Cai, Hubo; civil engineering, from Programa Nacional De Becas Y Credito Educativo, \$75,275, "Fellowship for Franklin Vargas Davila."

Caldwell, Barrett S; industrial engineering, from Multi-Sponsored Industrials, \$50, "Indiana Space Grant Consortium (INSGC) Affiliate Dues."

Caldwell, Barrett S; industrial engineering, from Purdue University, \$1,000, "Indiana Space Grant Consortium (INSGC) Affiliate Dues (Purdue Northwest Transfer Dues)."

Caldwell, Barrett S; industrial engineering, from University of Southern Indiana, \$1,000, "Indiana Space Grant Consortium (INSGC) Affiliate Dues (University of Southern Indiana)."

Campbell, Wayne W; nutrition science, from Colorado State University, \$162,171, "Does Antimicrobial-Free Production of Beef Cattle Reduce Foodborne Transmission of Resistant Bacteria to Human Consumers?"

Cason, Timothy N and Woods, Daniel J; economics, organizational behavior human resources, from International Foundation for Research in Experimental Economics, \$7,400, "Competition in Information: an Experimental Study of Bayesian Persuasion in a Search Environment."

Casteel, Shaun N; agronomy, from Kansas State University, \$79,198, "Effect of Cultural Practices on Soybean Seed Quality: a Review and Research Studies."

Celik, Zeynel Berkay; Bianchi, Antonio; Tian, Jing and Xu, Dongyan; computer science, from Office of Naval Research, \$180,000, "Bringing Fuzzing to the Cyber-Physical World."

Chiu, George T; education administration, from Reimagining Higher Education Foundation, \$10,000, "Undergraduate Program Curriculum Development for Plaksha University."

Chopra, Gaurav; chemistry, from National Advancing Translational, \$50,000, "Optimum Analgesic Discovery by Multiscale Interatomic Profiling."

Chopra, Gaurav; chemistry, from National Advancing Translational, \$90,000, "Cipher Knowledgebase for Pain, Opioid Abuse and Overdose."

Christian, John A; comparative pathobiology, from Western University of Health Sciences, \$3,770, "Cytology Resource Center (40001198)."

Coddington, Jennifer A; nursing, from Indiana University Health Arnett, \$47,489, "IU Health Faculty Practice Partnership."

Coddington, Jennifer A; nursing, from North Central Health Services, \$55,870, "Improving Medication Adherence in Behavioral Health."

Collicott, Steven H; aeronautics & astronautics, from National Aeronautics and Space Administration, \$270, "Propellant Slosh in Small Satellite Conformal Tanks – Grant #12000251."

Collicott, Steven H; aeronautics & astronautics, from National Aeronautics and Space Administration, \$299,958, "Spacecraft Pointing Control and Zero-Gravity Slosh – Knowledge Payload."

Cooks, Robert Graham; chemistry, from Merck Sharp & Dohme Corp, \$50,000, "Desorption Electrospray Ionization (DESI) and Other Ambient Ionization Methods to Understand Organometallic Coupling Reactions through Online Reaction Monitoring."

Cromer, Risa Denae; anthropology, from Wenner-Gren Foundation for Anthropological Research, \$40,000, "Ex Utero: Frozen Embryo Politics in the United States."

Crone, Candace C; comparative pathobiology, from Petsmart Charities, Inc, \$11,250, "Veterinary Student Research Support."

Cuza-Blanco, Alejandro; language & culture, from Purdue Research Foundation (PRF) Summer Research Grants, \$724, "SLC – SRG."

Czicz, Daniel James; earth, atmospheric and planetary sciences, from National Aeronautics and Space Administration, \$203,869, "Dynamics and Chemistry of the Summer Stratosphere; Amendment 2; Grant 12000300."

Das, Chittaranjan and Luo, Zhao-Qing; chemistry, biological sciences, from PHS-NIH National Institute of General Medical Science, \$371,981, "Mechanism of Atypical Ubiquitination and Deubiquitination by Bacterial Effectors; Grant #11000675."

Datta, Supriyo; electrical & computer engineering, from University of Notre Dame, \$112,500, "A Scalable Probabilistic Computer for Quantum-Inspired Algorithms; Amendment 1; Grant 40002857."

Delp, Edward J and Comer, Mary L; electrical & computer engineering, from Lockheed Martin Corp., \$45,000, "Multi-Entity Activity Characterization."

Denos, Benjamin R; Sommer, Drew E; Cutting, Rebecca A and Goodsell, Johnathan Eugene; Composites Manufacturing & Simulation Center, aeronautics & astronautics, from Argonne National Laboratory, \$174,211, "Develop Qualified Manufacturing Process for Preliminary Inner Tracker (ITk) Inner System Quarter Shells Prototype."

Deshmukh to Heister

Deshmukh, Abhijit V; industrial engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$3,227, "IE – SRG."

DeWoody, James Andrew; forestry & natural resources, from Bob Welder & Bessie Wildlife Foundation, \$24,000, "Landscape Genetic and Genomic Approaches for the Conservation of Montezuma Quail."

DeWoody, James Andrew; forestry & natural resources, from Texas A&M Agrilife Research, \$7,500, "Genomics and Ecology of the Desert Massasauga in the Pecos River Watershed."

Diclementi, Jeannie D; psychology, from Substance Abuse and Mental Health Services Administration, \$91,611, "Partners United for Student Mental Health."

Ebert, David S; Delp, Edward J and Karimzadeh, Morteza; electrical & computer engineering, from Combating Terrorism Technology Supp Off, \$50,000, "Automated Multimedia Target Expansion and Detection (AMTED)."

Ebert, David S; electrical & computer engineering, from Lawrence Livermore National Lab, \$60,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

Ebert, David S; electrical & computer engineering, from Raytheon, \$75,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

Edwards, Anne B and Nalbone, David P; behavioral sciences, from Sojourner Truth House, \$384, "Report for Sojourner Truth House Board Meeting."

Egel, Daniel S; botany & plant pathology, from Stoller Enterprises, Inc., \$5,000, "Potassium Management."

Egel, Daniel S; botany & plant pathology, from Certis USA LLC, \$4,000, "Potassium Management."

Ejeta, Gebisa and Rich, Patrick J; agronomy, from Kansas State University, \$109,255, "Genetic Enhancement of Sorghum to Promote Commercial Seed Supply and Grain Market Development (Phase II)."

Erickson, Bruce J and Evans, John T; agronomy, agricultural & biological engineering program, from Ohio State University, \$24,000, "Ag Data Considerations for Today's US Soybean Production."

Farkas, Brian E; food science, from Crazy Horse Hops LLC, \$300, "Multi Sponsored Gift Fermentation."

Felisberto Martins Ribeiro, Bruno; computer science, from National Science Foundation, \$94,101, "Faculty Early Career Development (CAREER): a Novel Blueprint for Representation Learning of Relational Invariances."

Ferraro, Kenneth F and Thomas, Patricia A; sociology, from PHS-NIH National Institute on Aging, \$293,375, "Childhood Misfortune and Adult Health Among Black, White, and Hispanic Americans."

Freeman, Jennifer L; health sciences, from PHS-NIH National Institute of Environment Health Science, \$71,805, "Mechanisms of Atrazine Endocrine Disruption."

French, Doran C and Schmitt, Sara A; human development & family studies, from Air Force, U.S. Department of the, \$3,233,102, "Early Learning Matters – Nonappropriated Fund (NAF) Blanket Purchase Agreement."

French, Richard Mark; engineering technology, from Sinclair Community College, \$10,711, "The Science, Technology, Engineering & Mathematics (STEM) Guitar Project."

Garimella, Suresh V and Lynall, Matthew D; mechanical engineering, management administration, from University of Michigan, \$455,555, "I-Corps Node: Activating the Midwest I-Corps Network."

Gavin, Timothy P; health & kinesiology, from Purdue Research Foundation (PRF) Summer Research Grants, \$280, "HKLS – SRG."

Gibson, Kevin D; Beckerman, Janna L; Couture, John J; Marshall, Maria I and Turco, Ronald F; botany & plant path, forestry & natural resources, ag economics, agronomy, from National Institute of Food & Agriculture, \$955,458, "A Comprehensive Assessment of Industrial Hemp as a Potential Crop for Organic Farmers."

Gounder, Rajamani P; chemical engineering, from BASF Corporation, \$200,000, "Synthesis and Stability of Zeolites."

Govindaraju, Rao S; civil engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$825, "CIVL – SRG."

Groll, Eckhard A and Ziviani, Davide; mechanical engineering, from Bechtel Corporation, \$121,975, "Investigation of a Novel Ejector-Based Cycle Architecture – Phase I: CO₂."

Guan, Wenjing; horticulture/landscape architecture, from Origene Seeds, Ltd, \$4,200, "General Research Activities."

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$18,085, "Analysis and Design of Fixed Equipment."

Han, Bumsoo; Chiu, George T and Siegmund, Thomas H; mechanical engineering, from Trask Trust Fund, \$34,585, "Collapsible Basket Array for High Throughput Histology Analysis of 3-D Organoids/Spheroids."

Handwerker, Carol A; Sutherland, John W and Zhao, Fu; materials engineering, environmental & ecological engineering, mechanical engineering, from Ames Laboratory, \$463,808, "Critical Material Institute Year 7."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$4,184, "NIH F30 Fellowship - JD Damrath."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$45,816, "NIH F30 Fellowship - JD Damrath."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$8,190, "2019-20 Graduate Co-Mentorship: Rachel Kohler."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$48,499, "2016- 2017 and 2017-2018 Joint PhD Program for Graduate Support - Yizhi Jiang."

Harpur, Brock Alexander; entomology, from Heartland Honey Bee Breeders Co-Op, \$3,434, "Voluntary Support."

Hassanein, Ahmed; nuclear engineering, from Gigaphoton Inc, \$92,384, "Multi Sponsor – Voluntary Support."

Heber, Albert J; agricultural & biological engineering program, from Reott Law Offices, LLC, \$10,000, "Multi Sponsor Gift."

Heister, Stephen D and Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, \$249,881, "Combustion in Solid Fuel Ramjets - Modification1 for Grant #13000712."

Heister, Stephen D and Pourpoint, Timothee L; aeronautics & astronautics, from National Aeronautics and Space Administration, \$193,748, "Rotating Detonation Combustion for Space Engines Using Reduced Toxicity Hypersonic Propellants."

Henderson to Johnson

Henderson, Jason R; Beaulieu, Lionel J; Lillpop, Abby R and Wilcox, Michael D; agricultural administration, Office of Engagement administration, agricultural communication services, cooperative extension services, from National Institute of Food & Agriculture, \$42,042, "Advancing Agrosecurity and Community Resilience through Collaboration, Capacity-Building and Extension Program Innovation."

Henderson, Jason R; Beaulieu, Lionel J; Lillpop, Abby R and Wilcox, Michael D; agricultural administration, Office of Engagement administration, agricultural communication services, cooperative extension services, from National Institute of Food & Agriculture, \$453,408, "Advancing Agrosecurity and Community Resilience through Collaboration, Capacity-Building and Extension Program Innovation."

Herbig, Arthur W; Fort Wayne communications, from National Communication Association, \$5,000, "Inclusive Conference Spaces."

Hertel, Thomas W; agricultural economics, from IMF- International Monetary Fund, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (IMF)."

Hertel, Thomas W; agricultural economics, from University of Chicago, \$3,875, "Decision Making Under Uncertainty (DMUU): Center for Robust Decision-Making Tools for Climate and Energy Policy; Amendment 8; Grant 10000964."

Hertel, Thomas W; agricultural economics, from National Graduate Institute for Policy Studies, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (GRIPS)."

Hertel, Thomas W; agricultural economics, from Executive Office of the President, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (CEA)."

Hertel, Thomas W; agricultural economics, from International Food Policy Research Institute, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (IFPRI)."

Hertel, Thomas W; agricultural economics, from Wageningen Economic Research (LEI), \$20,435, "Global Trade Analysis Project (GTAP) Consortium (LEI)."

Hertel, Thomas W; agricultural economics, from Economic Research Service, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (ERS)."

Hertel, Thomas W; agricultural economics, from Inter-American Development Bank, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (IDB)."

Hertel, Thomas W; agricultural economics, from World Trade Organization, the, \$20,435, "Global Trade Analysis Project (GTAP) Consortium (WTO)."

Hicks, Jennifer L; Office of Engagement administration, from Indiana Commission for Higher Education, \$300,000, "Improving Science, Technology, Engineering & Mathematics (STEM) Teacher Retention through Mentoring and Science, Technology, Engineering & Mathematics (STEM) Career Exploration."

Hicks, Jennifer L; Office of Engagement administration, from Lilly, ELI and Company Foundation, \$200,000, "Lilly Experience for Teachers of Science, Technology, Engineering & Mathematics (STEM)."

Hill, Catherine A; entomology, from US Army Contracting Command – Aberdeen Proving Ground (ACC APG) Adelphi Division, \$274,857, "Extending the PIRK Technology to Fight Transmission of Tick-Borne Diseases."

Hogenesch, Harm; comparative pathobiology, from Zoetis, \$5,351, "Testing for Anti-Bovine Serum Albumin (Anti-BSA) Antibodies."

Hook, Tomas O; Carlton, Joshua S and Foley, Carolyn J; forestry & natural resources, Indiana-Illinois Sea Grant, from National Oceanographic & Atmospheric Administration, \$1,357,928, "2018-2022 Illinois-Indiana Sea Grant (IISG) Omnibus Proposal."

Howell, Kathleen; aeronautics & astronautics, from University of Alabama, \$15,000, "ASSET: Astrodynamics Software and Science Enabling Tool."

Huber, Jessica E; speech, language & hearing sciences, from University of Massachusetts Amherst, \$37,820, "A Comparison of Two Behavioral Voice Interventions for Parkinsons Disease; Amendment 2; Grant 11000744."

Hung, Chen-Lung; physics & astronomy, from National Science Foundation, \$97,302, "Faculty Early Career Development (CAREER): Probing Non-Equilibrium Dynamics with Ultracold Atoms in Optical, Phononic, and Photonic Lattices; Amendment 1 for Grant #10001468."

Jacob, Zubin; Li, Tongcang; Lu, Na; Rahman, Rajib and Xuan, Yi; electrical & computer engineering, physics & astronomy, civil engineering, from Defense Advanced Research Projects Agency, \$144,182, "Designing Quantum Fluctuational Meta-Molecules for Giant Cooperative Light-Matter Interaction Beyond Spectral Boundaries; Modification 2 for Grant #13000678." (a Discovery Park award – Birk Nanotechnology Center)

Jacobs, Douglass F; Coggeshall, Mark V and Ginzl, Matthew D; forestry & natural resources, entomology, from National Science Foundation, \$87,689, "Phase III Industry-University Cooperative Research Centers Program (IUCRC) Purdue University: Center for Advanced Forestry Systems (CAFS)."

Jahanshahi, Mohammad Reza; civil engineering, from Indiana Department of Transportation, \$103,955, "SPR-4450 Visualization of Falling Weight Deflectometer (FWD) Data and Road Imagery for Enhanced Pavement Assessment."

Jayant, Krishna and Gonzales, Daniel Luis; biomedical engineering, from Howard Hughes Medical Institute, \$360,000, "The NanoNeedle-Net: a Nanoelectrode Array for Dendritic Recordings."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$4,575, "Baere Aerospace L Bladder."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$10,716, "Baere Aerospace S Bladder Test."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$14,836, "Baere Aerospace S Fabric Test."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$17,000, "Baere Aerospace L Polysulfide Test."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$20,147, "Baere Aerospace, Inc. ASTM D7826 Short List Materials Compatibility Testing 1a."

Johnson, Mary E and Thom, James Mark; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$5,436, "Baere Aerospace L Paint Test."

Johnson to Mayer

Johnson, William G; botany & plant pathology, from Helm Agro US, Inc, \$3,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Belchim Crop Protection US, LLC, \$24,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Nufarm Americas Inc., \$2,500, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Sipcam Agro USA, Inc, \$8,250, "Weed Science Research Voluntary Support."

Johnson, William G; botany & plant pathology, from Syngenta Crop Protection Inc., \$7,500, "Weed Science Research."

Jun, Martin Byung-Guk; mechanical engineering, from Seoul National University of Technology, \$44,747, "Connected Digital Twins for Artificial Intelligence Based Smart Manufacturing."

Karcher, Elizabeth L; Erasmus, Marisa A and Karcher, Darrin M; animal sciences, from US Poultry & Egg Harold E Ford Foundation, \$7,000, "Developing a Future Poultry Workforce."

Kim, Hye-Ji; Deering, Amanda J; Coursey, Andrew R; Quagraine, Kwamena K; Rode, Robert A and Witkowski, Nicole L; horticulture/ landscape architecture, food science, forestry & natural resources, agricultural economics, field extension, from Indiana State Department of Agriculture, \$98,021, "Healthy Food, Healthy Environment: Developing Best Management Practices for Hydroponic/Aquaponic Crop Production in Indiana."

Kim, Seungjin; nuclear engineering, from Niowave Inc, \$60,000, "Thermal-Hydraulic Analysis on the Niowave HYST."

Kinzer-Ursem, Tamara L and Linnes, Jacqueline C; biomedical engineering, from OmniVis, \$32,692, "A Portable Vibrio Cholerae Concentrator for Sensitive Pathogen Detection in Water."

Kubis, Tillmann C; electrical & computer engineering, from National Science Foundation, \$17,465, "Collaborative: Summit on Big Data and Cyberinfrastructure in Material Research."

Kurdalak, Erik S; food science, from Kalsec Inc, \$1,000, "Pilot Plant Multi-Sponsored Gift."

Kurdalak, Erik S; food science, from Emily D Edwards, \$850, "Pilot Plant Multi-Sponsored Gift."

Laskin, Alexander; chemistry, from Pacific Northwest National Laboratory, \$7,463, "PNNL Subcontract Year 3 Modification."

Laskin, Alexander; chemistry, from U.S. Department of Energy, \$20,600, "Chemistry and Physics of Atmospheric Aerosols at Pacificchem 2020 Congress."

Lee, Hyowon; biomedical engineering, from National Science Foundation, \$395,714, "Faculty Early Career Development (CAREER): Self-Clearing Glutamate Biosensor Towards Chronic Neurodegeneration Monitoring."

Lee, Ji Yeon; speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$14,922, "Word- and Structure-Driven Sentence Production in Aphasia; Grant #11000660."

Liang, Faming; statistics, from PHS-NIH National Institute of General Medical Science, \$258,457, "An Imputation-Consistency Algorithm for Biomedical Complex Data Analysis - Grant #11000701."

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$4,500, "Multi Sponsored Gift - Sensory."

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

Liceaga, Andrea M; food science, from Treehouse Foods, Inc, \$1,500, "Multi Sponsored Gift - Sensory."

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$5,000, "Multi Sponsored Gift - Sensory."

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$2,000, "Multi Sponsored Gift - Sensory."

Liceaga, Andrea M; food science, from Treehouse Foods, Inc, \$6,600, "Multi Sponsored Gift - Sensory."

Lister, Matthew L; physics & astronomy, from Smithsonian Astrophysical Observatory, \$27,491, "The Nature of Jets in Hybrid Monitoring Of Jets in Active Galactic Nuclei with VLBA Experiments (MOJAVE) Blazars - Chandra."

Liu, Pi Ju and Hass, Zachary J; nursing, from State of Montana, \$53,483, "Montana Adult Protective Services Using the Identification, Services, and Outcomes Matrix."

Lopez-De-Bertodano, Martin A; nuclear engineering, from Fluor Marine Propulsion, LLC, \$123,613, "Transient Two-Fluid Model Development; Amendment 1 for Grant #14000450."

Lu, Yung-Hsiang; electrical & computer engineering, from Google Inc, \$9,000, "Neural Information Processing Systems (NeurIPS), on-Device Visual Intelligence Competition."

Lu, Yung-Hsiang; electrical & computer engineering, from Facebook, \$60,000, "Real Time Analysis of Visual Data Using."

MacDermid Wadsworth, Shelley; Broniarczyk, Kathy M and Topp, Dave; human development & family studies, Military Families Research Institute, from Henry M Jackson Foundation, \$48,848, "Star Behavioral Health Providers - Extension to Oregon, Year 4."

MacDermid Wadsworth, Shelley; Topp, Dave and Broniarczyk, Kathy M; human development & family studies, Military Families Research Institute, from Henry M Jackson Foundation, \$450,000, "Extending the Reach of Star Behavioral Health Providers (SBHP)."

Mahmoudian, Nina; mechanical engineering, from Twinleaf LLC, \$37,509, "Magnetic Sensor Suite for Remotely Operated Vehicles for Littoral Threat Characterization in Complex Seabed Environment; Amendment 1, Grant 13000722."

Matson, Eric T and Smith, Anthony H; computer information technology, from Information & Communication Technology Promotion, \$339,900, "Purdue IITP Spring 2020 Software Program."

Matson, Eric T and Smith, Anthony H; computer information technology, from Chung-Ang University, \$54,361, "CAU-Purdue Software Program 2020."

Mayer, Theresa Stellwag; Ladisch, Michael R; Reklaitis, Gintaras V; Vlachos, Pavlos; Yeo, Yoon and Beck, Kaethe A; Bindley Bioscience Center, agricultural & biological engineering program, chemical engineering, mechanical engineering, industrial & physical pharmacy, from Eli Lilly and Company, \$6,601,300, "Lilly Injectable Biologics 2020."

Maynard to Raz

Maynard, Elizabeth T; horticulture/landscape architecture, from Crookham Company, \$110, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture/landscape architecture, from Rupp Seed Inc., \$110, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture/landscape architecture, from Mark or Lori Sigourney, \$220, "Research for 1995 Vegetable Variety Trial Program."

McCollum, James S; field extension, from Indiana Youth Institute, \$750, "National Association of Extension 4-H (NAE4-H) National Conference - Mountains of Opportunity."

McCullough, Bobby G; construction engineering & management, from Indiana Department of Transportation, \$15,000, "SPR-4225 Proposal for the Development of the Return of Investment (ROI) Analysis of the Indiana Department of Transportation (INDOT) Research Program."

McDaniel, Rebecca S; civil engineering, from Transportation Research Board, \$45,000, "Practices for Assessing and Mitigating the Moisture Susceptibility of Asphalt Pavements."

McKee, Renee K; cooperative extension service, from J Michael Free-land, \$600, "4-H Youth Programs."

McKee, Renee K; cooperative extension service, from National 4-H Council, \$4, "4-H Youth Programs."

Mei, Jianguo; chemistry, from Ambilight, Inc, \$360,000, "Ambilight, Inc."

Minton, David A; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$34,165, "High Resolution Topography and Radar Observations of Lunar Craters and Cratered Surfaces; Amendment 2, Grant 12000202."

Morgan, John A; chemical engineering, from Sandia National Laboratories, \$45,700, "13C-Metabolic Flux Analysis of CRISPR Engineered Cyanobacteria."

Munson, Eric J; industrial & physical pharmacy, from Genentech Corporation, Inc., \$50,000, "Center for Pharmaceutical Development (CPD) Consortium."

Newton, Kathryn A; engineering technology, from Purdue Research Foundation (PRF) Summer Research Grants, \$2,002, "TECH - SRG."

Noinaj, Nicholas; biological sciences, from Georgia State University, \$28,775, "Neisseria Gonorrhoeae Metal Transporters that Subvert Nutritional Immunity."

Pastakia, Sonak D and Tran, Dan Nguyen Khanh; pharmaceutical practice, from Brown University, \$50,747, "Harambee: Integrated Community-Based HIV/NCD Care & Microfinance Groups in Kenya."

Patton, Aaron J; horticulture & landscape architecture, from Nufarm Americas Inc., \$6,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture & landscape architecture, from Corteva Agriscience, \$10,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture & landscape architecture, from PBI Gordon Corp., \$12,900, "Patton Multi Sponsored #2 (Orig 301226)."

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

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

Peroulis, Dimitrios; electrical & computer engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$1,369, "ECEN - SRG."

Pomeranz, Irith; electrical & computer engineering, from Semiconductor Research Corporation, \$85,000, "Defect Oriented and Storage Aware Test Sets for Screening and Diagnosis."

Pothén, Alex; computer science, from Pacific Northwest National Laboratory, \$67,000, "Exagraph: Combinatorial Methods for Enabling Exascale Applications; Modification 4; Grant 14000319."

Pourpoint, Timothee L; aeronautics & astronautics, from Missile Defense Agency, \$270, "Investigation of Root Causes of Combustion Instability; Grant #13000427."

Pourpoint, Timothee L; aeronautics & astronautics, from Analytical Mechanics Association, Inc, \$2,170, "Transient Combustion Modeling for Hypergolic Engines - Increase for Grant #12000315."

Pourpoint, Timothee L and Slabaugh, Carson D; aeronautics & astronautics, from National Aeronautics and Space Administration, \$17,000, "Integrated Green Propulsion Reaction Control System Module for Spacecraft and Small Launch Vehicle Applications."

Pourpoint, Timothee L; aeronautics & astronautics, from National Aeronautics and Space Administration, \$6,468, "Reactive Nano Scale Emulsions for High Performance Hybrid Propulsion - Joshua D. Mathews - Supplement 4 for Grant #12000152."

Purzer, Senay and Sharma, Pankaj; engineering education, technology leadership and innovation, from The Concord Consortium Inc, \$6,684, "Science and Engineering Education for Infrastructure Transformation (SEET)."

Pyrak-Nolte, Laura J and Bobet, Antonio; physics & astronomy, civil engineering, from National Science Foundation, \$89,853, "Benchmark Data Set for Damage Mechanics Challenge on Brittle-Ductile Materials."

Qu, Ming; civil engineering, from UT-Battelle LLC, \$60,000, "SaltX Heat Pump: Residential Gas-Fired Cost-Effective Triple-State Sorption Heat Pump; Modification 1; Grant 14000296."

Rajwa, Bartlomiej P; biological sciences, from J M Malone and Son Inc, \$5,735, "Analysis of Triploidy in Ctenopharyngodon Idella Embryos Using Flow Cytometry." (a Discovery Park award - Bindley Bioscience Center)

Raman, Arvind; mechanical engineering, from Colciencias, \$104,939, "Colciencias-Fulbright Fellowship - 2014 Thru 2018."

Rathfon, Ronald A; forestry & natural resources, from Bayer Corporation, \$4,000, "Bayer Voluntary Support."

Ratliff, Timothy L; comparative pathobiology, from Northshore University Health System, \$109,570, "Leukocytic Phenotypes Associated with BPH Progression (Grant 11000890 Amendment #1)."

Raz, Ali Khalid; Ezra, Kristopher L and Mockus, Linas; aeronautics & astronautics, chemical engineering, from Sandia National Laboratories, \$130,000, "Novel Hypersonic Vehicle Maneuvers via Reinforcement Learning Techniques."

Reese to Solorio

Reese, Laura Ms; public health, from University of Colorado, \$30,000, "Colorado Child Welfare Training System (CWTS) Subcontract."

Ribeiro, Fabio H; chemical engineering, from Lyondell Chemical Company, \$30,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ribeiro, Fabio H; chemical engineering, from Nice America Research, \$15,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ribeiro, Fabio H; chemical engineering, from Gas Technology Institute, \$15,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ribeiro, Fabio H; chemical engineering, from ExxonMobil Chemical Company, \$30,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ribeiro, Fabio H; chemical engineering, from Shell Oil Company, \$30,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Richmond, Douglas Scott; entomology, from PBI Gordon Corp., \$18,000, "Turfgrass Entomology Research."

Richmond, Douglas Scott; entomology, from Syngenta Crop Protection Inc., \$1,000, "Turfgrass Entomology Research."

Rochefford, Torbert R and Ortiz, Darwin; agronomy, from NutraMaize LLC, \$280,308, "Preparing High Carotenoid Orange Corn for Large-Scale Commercial Adoption."

Rollock, David; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$1,046, "PSYS - SRG."

Rompf, Tiark; computer science, from U.S. Department of Energy, \$150,000, "Program Generators for Exascale and Beyond; Modification 2 for Grant #14000326."

Roy, Kaushik and Jung, Byunghoo; electrical & computer engineering, from Trask Trust Fund, \$46,000, "Commercialization of I-Sense and I-Learning Technologies."

Running, Cordelia A; food science, from Indiana University, \$16,497, "Effect of Reducing Added Sugar Intake, by Substituting Sparkling Water, on Glycemia in Adolescents at Risk for Type 2 Diabetes."

Ruple, Audrey; public health, from University of Washington, \$24,421, "The Dog Aging Project: Genetic and Environmental Determinants of Healthy Aging in Companion Dogs."

Salazar, Kara A; Indiana-Illinois Sea Grant, from Hamilton County Soil & Water Conservation, \$300, "Voluntary Support - Salazar."

San Martin-Gonzalez, Maria Fernanda; food science, from Ameriquel Group LLC, \$3,500, "Multi-Sponsor Gift Funds."

Sangha, Susan; psychological sciences, from PHS-NIH National Institute of Mental Health, \$384,605, "Neural Circuitry of Safety, Fear and Reward Cue Discrimination - Grant #11000694."

Sangid, Michael D; aeronautics & astronautics, from National Aeronautics and Space Administration, \$185,874, "Microstructure and Defect Informed Predictions of Damage Tolerance and Durability of Materials and Structures, Including Verification and Uncertainty Quantification."

Scalo, Carlo; mechanical engineering, from Army Research Office, \$25,000, "Army Research Office- Young Investigator Program (ARO-YIP): Coherent-Vorticity-Preserving (CvP) Large-Eddy Simulations (LES) of Very-High-Reynolds-Number Vortex Dynamics; Modification 3; Grant 13000616."

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$96,701, "Pre-Clinical Evaluation Testing Agreement Studies: CBI-SBCM, CMH-INDY, CMH-SPCC and POC."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Surgical Referral Services Ltd, \$22,384, "Oncology Residency Training Program."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Animal Eye Specialists, Inc, \$22,538, "Ophthalmology Residency Program."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Fitness Studio Avi Zipori, \$22,538, "Multi Sponsor - Voluntary Support."

Scutari, Gesualdo; industrial engineering, from Army Research Office, \$60,000, "Distributed Robust Nonconvex Optimization Over Time-Varying Networks: Tradeoffs and Guarantees; Modification 2 for Grant #13000661."

Seigfried-Spellar, Kathryn C and Rogers, Marcus K; computer information technology, from National Institute of Justice, \$19,561, "NIJ Research Assistantship Program: Digital Forensics and Multimedia Analysis."

Sen, Shreyas; electrical & computer engineering, from Air Force Research Laboratory, \$94,636, "MIDAS TOUCHES: Tiles of Unreleased Clocks for Hybrid Electronic Steering; Modification 2 for Grant #13000697."

Shakouri, Ali; electrical & computer engineering, from Sartorius Stedim Biotech GmbH, \$35,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)-Sartorius Stedim." (a Discovery Park award - Birck Nanotechnology Center)

Shaver, Gregory M; mechanical engineering, from Cummins, Inc., \$200,000, "High-Pressure Natural Gas Capable Test Cell."

Shaver, Gregory M; DeLaurentis, Daniel A and Vyn, Tony J; mechanical engineering, aeronautics & astronautics, agronomy, from John Deere Agricultural US, \$549,819, "Autonomous Systems Development Tools."

Shepler, Brian M; pharmaceutical practice, from AbbVie Inc, \$82,626, "Purdue/AbbVie Medical Affairs Fellowship."

Shepler, Brian M; pharmaceutical practice, from AbbVie Inc, \$82,626, "Purdue/AbbVie Medical Affairs Fellowship 2."

Shepler, Brian M; pharmaceutical practice, from AbbVie Inc, \$82,626, "Purdue/AbbVie Medical Affairs Fellowship 3."

Sivasankar, Preeti Mahalakshmi; Cox, Abigail C and Hawkins, Jan F; speech, language & hearing sciences, comparative pathobiology, veterinary clinical sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$45,016, "Investigating the Role of Systemic Dehydration in Vocal Fold Wound Healing."

Smith, Aaron D; entomology, from National Science Foundation, \$535,320, "Advancing Revisionary Taxonomy and Systematics (ARTS): Uncovering the Desert Darkling Beetles (Tenebrionidae: Pimeliinae): Phylogenomics, Phenomics, and Biogeography in a Megadiverse Global Radiation."

Solorio, Luis; biomedical engineering, from PHS-NIH National Cancer Institute, \$49,730, "NIH Transfer."

Staiger to Yang

Staiger, Christopher J; botany & plant pathology, from Purdue Research Foundation (PRF) Summer Research Grants, \$63, "BTNY - SRG."

Strachan, Alejandro H; materials engineering, from U.S. Department of Energy, \$201,466, "Shape Memory in Nanoscale Metallic Alloys; Modification 13 for Grant #14000196."

Sudhoff, Scott D; electrical & computer engineering, from Florida State University, \$50,000, "Purdue 2017-2021 Electric Ship Research and Development Consortium (ESRDC) Efforts; Amendment 10; Grant 13000510."

Sullivan, John P; aeronautics & astronautics, from Clemson University, \$15,750, "Development and Delivery of the Boeing Aerospace Program-Aerospace Multi University, Multi User Capstone Project."

Sundaram, Neera J; mechanical engineering, from PC Krause and Associates, \$42,001, "A Unified System-of-Systems Design and Analysis Toolset for Aircraft Thermal Management Systems."

Taleyarkhan, Rusi P; nuclear engineering, from Pacific Northwest National Laboratory, \$200,000, "Nuclear Safety Personnel Instrumentation for Real-Time, High-Efficiency, Low-Cost Monitoring-Tracking in Extreme & Normal Radiation Field Environments."

Taleyarkhan, Rusi P; nuclear engineering, from Savannah River Nuclear Solutions LLC, \$84,746, "High Resolution Actinide Speciation Using Tensioned Metastable Fluid Detector (TMFD)."

Tallman, Tyler N; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$24,491, "Hashim Hassan."

Teegarden, Dorothy; Donkin, Shawn S and Wendt, Michael K; nutrition science, animal sciences, medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$458,780, "Obesity, Metabolism and Breast Cancer Metastasis; Grant #11000823."

Telenko, Darcy E P; botany & plant pathology, from Sipcam Agro USA, Inc, \$3,600, "Extension Voluntary Support."

Thompson, Michelle S; earth, atmospheric and planetary sciences, from National Aeronautics and Space Administration, \$57,146, "An Experimental Investigation of Space Weathering Processes of Regoliths on Primitive Carbonaceous Asteroids; Supplement 2 for Grant #12000298."

Thompson, Michelle S; earth, atmospheric and planetary sciences, from Arctic Slope Technical Services, Inc, \$13,500, "Multi Sponsor - Voluntary Support."

Tobias, Justin L; economics, from Ross Graduate Fellowship-Assistantship, \$20,065, "Linh H Nguyen."

Trice, Rodney W and Youngblood, Jeffrey P; materials engineering, from Massachusetts Institute of Technology, \$260,903, "Multiscale Porous High-Temperature Heat Exchanger Using Ceramic Coextrusion."

Tsoukalas, Lefteri; nuclear engineering, from Office of Naval Research, \$32,383, "Critical System Simulation Tool for Investigating the Resilience of a Cyberphysical Security Ecosystem; Modification 3 for Grant #13000642."

Tu, Manghui and Jiang, Keyuan; computer information technology & graphics, from National Science Foundation, \$1,072,477, "CyberCorps (R): Scholarship for Service (SFS) Program at Purdue University Northwest; Amendment 1 for Grant #10001276."

Tucker, Mark A; agricultural sciences, education & communication, from Purdue Doctoral Program, \$19,281, "Patrick Joseph Polowsky."

Tuinstra, Mitchell R; Crawford, Melba M and Habib, Ayman F; agronomy, civil engineering, from CIMMYT, Int., \$200,000, "Heat Stress Resilient Maize for South Asia through a Public-Private Partnership."

Upadhyaya, Pramey; electrical & computer engineering, from National Science Foundation, \$396,375, "Faculty Early Career Development (CAREER): Quantum Spin-Magnon Hybrids: Exploiting Magnon Resonance for Next-Generation Spin-Based Hybrid Quantum Technology."

Uyeda, Christopher H; chemistry, from Lilly USA, LLC, \$100,000, "New Strategies in Carbene Transfer Catalysis."

Wasserman, Adam and Gonzalez Chavez, Victor Hugo; chemistry, from Molecular Sciences Software Institute, \$34,542, "Implementing Partition Density Functional Theory (DFT) with Psi4."

Weake, Vikki Marie and Hall, Hana; biochemistry, from PHS-NIH National Eye Institute, \$188,074, "R-Loops as a Novel Driver of Photoreceptor Aging."

Weber, Zachary A; pharmaceutical practice, from Indiana University, \$50,752, "IU MOU."

Wei, Alexander; chemistry, from Dundas I Flaherty, \$1,000, "Wei Gift Funds."

Weibel, Justin A; mechanical engineering, from 3M General Offices, \$30,000, "Cooling Technologies Research Center (CTRC)."

Weibel, Justin A; mechanical engineering, from Toyota Foundation USA, \$30,000, "Cooling Technologies Research Center (CTRC)."

Weibel, Justin A; mechanical engineering, from Seagate, \$30,000, "Cooling Technologies Research Center (CTRC)."

Weibel, Justin A; mechanical engineering, from General Motors Corp, \$30,000, "Cooling Technologies Research Center (CTRC)."

Weibel, Justin A; mechanical engineering, from AavidThermalloy, \$7,500, "Cooling Technologies Research Center (CTRC)."

Weibel, Justin A; mechanical engineering, from Dow Chemical Company, the, \$11,250, "Cooling Technologies Research Center (CTRC)."

Wendt, Michael K; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$349,110, "Overcoming Metastatic Resistance to ErbB-Targeted Therapies; Grant #11000578."

Wilcox, Michael D; cooperative extension services, from Perry County Port Authority, \$15,000, "Assessing the Feasibility of a Shared Use Kitchen in the Perry County Region."

Williams, Christopher S and Frosch, Robert J; civil engineering, from Indiana Department of Transportation, \$10,000, "Repair and Strengthening of Bridges in Indiana Using Fiber Reinforced Polymer (FRP) Systems."

Williams, Rod N; forestry & natural resources, from Little Turtle Aazk, \$1,172, "Voluntary Support."

Wisecaver, Jennifer H; biochemistry, from Johns Hopkins University Applied Physics, \$26,122, "Development of Advanced Plant Technologies for the Detection of Environmental Threats; Modification 3 for Grant #13000710."

Yang, Haizhao; mathematics, from National Science Foundation, \$139,398, "Faculty Early Career Development (CAREER): Deep Learning Based Scientific Computing: Mathematical Theory and Algorithms."

Yaninek to Zillich

Yaninek, John S; entomology, from Indiana Department of Natural Resources, \$77,956, "Indiana Cooperative Agricultural Pest Survey Work Plans and Budgets Federal FY 2019; Amendment 1 (20000340)."

Ye, Peide; electrical & computer engineering, from University of Notre Dame, \$225,000, "Applications and Systems Driven Center for Energy-Efficient Integrated Nanotechnologies (ASCENT); Amendment 3; Grant 40002005."

Ye, Peide; electrical & computer engineering, from Army Research Office, \$30,000, "Ballistic Phosphorene Transistor; Modification 8 for Grant #13000410."

Yeomans, Christopher L; philosophy, from Purdue Research Foundation (PRF) Summer Research Grants, \$382, "PHIL – SRG."

Yih, Yuehwern; industrial engineering, from Agency for International Development, \$578,325, "Laser Buy-In: Multi-Country Study on Inclusive Education (MCSIE) for Learners with Disabilities in Cambodia, Malawi, and Nepal."

Yih, Yuehwern; industrial engineering, from Agency for International Development, \$900,000, "Laser Buy-In: Evaluation of Somalias Accelerated Quality Learning Program."

Young, Bryan G and Johnson, William G; botany & plant pathology, from Monsanto Company, \$18,900, "Monsanto S070 – Low Tunnel 2019-01-B7-11."

Young, Bryan G and Johnson, William G; botany & plant pathology, from Monsanto Company, \$18,900, "Monsanto S071 – Low Tunnel 2019-01-B7-10."

Young, Bryan G; botany & plant pathology, from Lamberti USA, Inc, \$2,400, "Multi Sponsored Gift Account."

Young, Bryan G; botany & plant pathology, from Exacto Chemical Company, \$14,400, "Multi Sponsored Gift Account."

Yu, Denny; industrial engineering, from Indiana University, \$8,861, "Assessing Differences in Ergonomic Strain Between Laparoscopic and Robotic Surgery and Identifying Novel Methods for Reducing Ergonomic Risk."

Zavattieri, Pablo D; civil engineering, from Oregon State University, \$66,691, "Thermodynamic and Kinetic Simulations and Testing Procedures to Screen for Enhanced Durability of Concrete Containing Industrial Waste."

Zhang, Zhong-Yin; Mesecar, Andrew D and Putt, Karson S; medicinal chemistry & molecular pharmacology, biochemistry, from Indiana University, \$3,404,025, "Indiana University School of Medicine (IUSM) Alzheimers Disease Drug Discovery Center."

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$32,562, "Structure/Function of Protein Tyrosine Phosphatases – Grant #11000814."

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 U.S. Steel Corporation, \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian; mechanical & civil engineering, from Union Gas Limited, \$22,500, "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, Chenn Qian; mechanical & civil engineering, from EVRAZ North America, \$12,500, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian; mechanical & civil engineering, from Cliffs Natural Resources, \$25,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

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

Zillich, Alan J; pharmaceutical practice, from Purdue Research Foundation (PRF) Summer Research Grants, \$419, "PHPR – SRG." ■

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