Abdel-Khalik to Caldwell

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, $40,000, “Improvements of Algorithms for the Production of Prototypical Synthetic Time Histories.”

Adeola, Olayiwola; animal sciences, from Mytech Technology Co., Ltd, $18,479, “Optimum Dietary Concentration of Fortide for Broiler Chickens.”

Agnew, Christopher R; psychological sciences, from Facebook, $304,743, “Virtual Reality (VR) Meaningful Relationships Collaboration.”

Allebach, Jan P; electrical & computer engineering, from HP Inc, $33,000, “Federated Learning for Computer Vision.”

Allebach, Jan P; electrical & computer engineering, from HP Inc, $75,000, “Training-Based Halftoning Algorithms for Better Halftone Image Quality for the HP Digital Press.”

Andrisani, Ourania M; basic medicine science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, $346,761, “Mechanisms of Hepatocyte Transformation by the Hepatitis B Virus X Protein.”

Applegate, Bruce M; food science, from Sensient Technologies Corporation, $6,250, “Low Temperature Short Time Processing.”


Basaran, Osman A; chemical engineering, from Endress & Hauser Wetzer USA, $10,000, “Purdue Process Safety and Assurance Center (P2SAC).”

Basaran, Osman A; chemical engineering, from Kenexis, $3,750, “Purdue Process Safety and Assurance Center (P2SAC).”

Basaran, Osman A; chemical engineering, from Amgen, Inc, $25,000, “Purdue Process Safety and Assurance Center (P2SAC).”

Basaran, Osman A; chemical engineering, from Glaxo Smith Kline, $25,000, “Purdue Process Safety and Assurance Center (P2SAC).”

Basaran, Osman A; chemical engineering, from Eli Lilly and Company, $25,000, “Purdue Process Safety and Assurance Center (P2SAC).”

Beaudoin, Stephen P; chemical engineering, from Northeastern University, $71,820, “Trace Explosives Sampling for Security Applications (TESSA): Creation of Procedures and Methodology to Understand and Measure Sampling Efficiency and Baseline Performance Part II: Extension to Commercial Off-the-Shelf (COTS).”

Benes, Bedrich; computer graphics technology, from University of Illinois, $99,000, “Crops in Silico: Increasing Crop Production by Connecting Models from the Microscale to the Macroscale; Modification 2; Grant 41000562.”

Bentley, Robin T; veterinary clinical sciences, from University of Alabama at Birmingham, $23,266, “Canine (Canine Immunoneurotherapeutics Trial).”

Bergeson, Scott M and Gillespie, Robert B; biology, from Indiana Academy of Science, $2,967, “Neonicotinoid Insecticide Exposure in Bats of the Cornbelt.”

Bermel, Peter A and Weibel, Justin A; electrical & computer engineering, from Office of Naval Research, $245,183, “Integrated, Scalable Design Prototyping Process to Improve the Specific Power Efficiency of Radars.”

Bharadwaj, Hari M; speech, language and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, $376,521, “Individualized Assays of Supra-Threshold Hearing Deficits (Grant 11000573 - Administration 4).”

Bhargava, Bharat; computer science, from Ford Motor Company, $213,064, “Software Defined Networking in Automotive Environment.”

Bigelow, Cale A; horticulture & landscape architecture, from Helena Agri-Enterprises, LLC, $3,000, “Putting Greens Research.”

Blackstock, Stephanie A; vice chancellor for finance & administration, from Indiana Dunes National Lakeshore, $1,000, “Indiana Dunes Tourism Grant 2020 – Festivals & Special Events (Acorn Concert Series).”

Bolton, J Stuart; mechanical engineering, from 3M General Offices, $450,000, “Study of Acoustic and Damping Materials; Amendment 11.”

Bowman, Aaron B; health sciences, from Albert Einstein College of Medicine, $51,924, “Mechanisms of Methylmercury Induced Neuronal Toxicity; Grant 11000860, Amendment 3.”

Bowman, Aaron B; health sciences, from Vanderbilt University, $7625, “Drug Development for Tuberous Sclerosis Complex and Other Pediatric Epileptogenic Diseases Using Neurovascular and Cardiac Microphysiological Models.”

Brito, Luiz Fernando; animal sciences, from Norwegian Association of Sheep & Goat, $14,000, “Multi Sponsor – Voluntary Support.”

Buckmaster, Dennis; agricultural & biological engineering program, from ARVA Intelligence Corp, $15,000, “Open Ag Technology and Systems Center (OATS) Consortium.”

Buckmaster, Dennis; agricultural & biological engineering program, from Microsoft Corporation, $50,000, “Open Ag Technology and Systems Center (OATS) Consortium.”

Caffee, Marc W; physics & astronomy, from U.S. Geological Survey, $3,150, “Cosmogenic Dating of 3 Samples.”

Caldwell, Barrett S; industrial engineering, from Ball State University, $1,000, “Indiana Space Grant Consortium (INSGC) Affiliate Dues-Ball State University.”

Caldwell, Barrett S; industrial engineering, from Purdue University, $1,000, “Indiana Space Grant Consortium (INSGC) Affiliate Dues-Purdue FW.”

Caldwell, Barrett S; industrial engineering, from Purdue University, $1,000, “Indiana Space Grant Consortium (INSGC) Affiliate Dues-Purdue FW.”
Campbell to Grama

Campbell, Wayne W and Reed, Jason B; nutrition science, libraries administration, from National Chicken Council, $81,213, “Nutritional Composition, Dietary Intakes and Human Health Effects of Chicken Meat.”

Cruz, Esmeralda; field extension, from Health Care Education-Training Inc, $41,578, “Youth Rise! Year 5.”

Cziczo, Daniel James; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $101,934, “Dynamics and Chemistry of the Summer Stratosphere – Supplement 4 for Grant #12000300.”

Deering, Amanda J; food science, from American Councils for International Education, $22,500, “Improving Food Technology and Food Safety Education in Tajikistan.”

DeLaurentis, Daniel A; aeronautics & astronautics, from Stevens Institute of Technology, $10,000, “WRT-1020: Systems Engineering Research Center (SERC) Program Management.”

DeLaurentis, Daniel A and Crossley, William A; aeronautics & astronautics, from Federal Aviation Administration, $222,116, “Ascent Project 10 – Aircraft Technology Modeling and Assessment; Amendment 35, Grant 16100055.”

DeLaurentis, Daniel A; aeronautics & astronautics, from Frontier Technology Inc, $8,193, “Command, Control, Communications, Cyber and Business Systems Office of the Under Secretary of Defense for Acquisition and Sustainment (OUSD (A&S)) Deputy Assistant Secretary of Defense (DASD) (C3CB).”

Dooley, Frank J and Drake, Brent M; provost administration, institutional data analytics + assessment, from Georgia State University, $53,157, “MAAPS: Measuring Analytics as Predictors of Success; Amendment 5 for Grant #19100049.”

Doudareva, Natalia and Morgan, John A; biochemistry, chemical engineering, from National Science Foundation, $224,532, “Deciphering Molecular Mechanisms Involved in Plant Volatile Emission (Grant 10001122 Amendment #5).”

Duvall, John N; English, from Johns Hopkins University, $15,665, “Journal of Modern Fiction Studies.”

Edwards, Nancy E; nursing, from Health Resources & Services Administration, $548,740, “Health Center Cluster (Grant #1000493).”

Elliott, Stephen John and Oconnor, Kevin J; technology, leadership, from Tascent, Inc, $7993, “Tascent Test – Hallway Build.”

Engel, Bernard A; agricultural research & graduate education, from Indiana State Department of Agriculture, $10,000, “Turkey Market Development.”

Felisberto Martins Ribeiro, Bruno; computer science, from YWCA Silicon Valley, $67,743, “Recommendation System for Curated Pathways App.”


Field, William E; agricultural & biological engineering program, from Farm Credit Services of Mid-America, ACA, $10,000, “Breaking New Ground.”

Field, William E and Nour, Mahmoud M; agricultural & biological engineering program, from University of Nebraska Medical Center, $18,473, “Implementing Surveillance System for Farm-Related Injuries and Fatalities Involving Livestock Manure Storage, Handling and Transport Operations with Summary and Implications.”

Field, William E; agricultural & biological engineering program, from CHS Foundation, $5,000, “Breaking New Ground.”

Figueiredo, Marxa L; basic medicine science, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $304,770, “Facilitating Endogenous Bone Repair in Arthritis with Targeted IL-27 Sonodelivery; Grant #11000687.”

Fischbach, Ephraim; physics & astronomy, from Dr Jordan M Heim, $500, “E. Fischbach Research Support.”

Freeman, Jennifer L and Wasel, Ola; health sciences, from University of Illinois at Chicago, $20,000, “Neurotoxicity of Polyfluoroalkyl Substance (PFAS) Mixtures.”

Frueh, Carolin E; aeronautics & astronautics, from J.T. Mcgraw and Associates, LLC, $125,000, “Prototype for Rapid Response Research (RAPID) Reconstitution for Ground-Based Space Situational Awareness Capability for Near-Geosynchronous Objects; Grant #13000674.”


Godwin, Allison F; engineering education, from National Science Foundation, $23,938, “Career-Life Balance (CLB)-Faculty Early Career Development Program (CAREER) for Project CAREER: Actualizing Latent Diversity: Building Innovation through Engineering Students Identity Development.”

Goergen, Craig J; biomedical engineering, from University of California – Berkeley, $68,750, “Noninvasive Measurement of Intradiscal Strains Under Dynamic Loading.”

Gondhalekar, Ameya D; entomology, from Mclaughlin Gormley King Company, $800, “Multi Sponsor.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, $6,125, “Support for the ASCE Journal of Hydrologic Engineering.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, $6,125, “Support for the ASCE Journal of Hydrologic Engineering.”

Grama, Ananth Y; Bagchi, Saurabh and Chaterji, Somali; computer science, electrical & computer engineering, agricultural & biological engineering program, from National Institutes of Health, $704,873, “Continued Development and Maintenance of the MG-RAST Metagenomics Pipeline (Grant 11000494; Amendment #4).”
Haddock to Liceaga

Haddock, John E and Slusher, Laura M; civil engineering, from Indiana Department of Transportation, $1,154,604, "Hazard Elimination Program for Existing Roads and Streets (HELPERS)."

Han, Bumsoo and Konieczny, Stephen F; mechanical engineering, biological sciences, from University of North Carolina at Chapel Hill, $187,961, "Targeting the Plasminogen Activation System to Limit Pancreatic Cancer Progression and Associated Thrombosis."

Henderson, Gregory C; nutrition science, from McKinley Educational Foundation, $30,000, "Multi Sponsor – Voluntary Support."

Hendrix, Gena K; comparative pathobiology, from Indiana Department of Natural Resources, $42,000, "Diagnostic Evaluation of Chronic Wasting Disease in White-Tailed Deer."

Hertel, Thomas W; agricultural economics, from United Nations Economic Commission for Africa, $20,870, "Global Trade Analysis Project (GTAP) Consortium (UNESCWA)."

Hertel, Thomas W; agricultural economics, from KPMG, $20,435, "Global Trade Analysis Project (GTAP) Consortium- KPMG."

Hertel, Thomas W; Aguilar, Angel H.; Chepeliev, Maksym G; Golub, Alla A and Van Der Mensbrugge, Dominique Y; agricultural economics, Global Trade Analysis Project (GTAP) data, from Virginia Polytechnic Institute & State University, $65,000, "Updating Agricultural Trade Elasticities for Use in a Computable General Equilibrium (CGE) Framework."

Hill, Michael A; Center for Environmental and Regulatory Information Systems, from Animal Plant Health Inspection Service, $67,498, "Cooperative Agricultural Pest Survey Information Services (CAPSIS) FY 20."

Hirleman, E Daniel and Ward, Mark Daniel; Office of Corporate and Global Partnerships administration, statistics, from Cummins, Inc., $500,000, "Indiana Digital Crossroads 2020 Pilot."

Horgan, Briony H; earth, atmospheric & planetary sciences, from Arizona State University, $32,000, "Mastcam-Z: a Geologic, Stereoscopic, and Multispectral Investigation for the National Aeronautics and Space Administration (NASA) Mars-2020 Rover Mission; Amendment 7 for Grant #12000147."

Horgan, Briony H; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $46,820, "Lunar Pyroclastic Deposits: Windows to the Lunar Interior; Supplement 3 for Grant #12000191."

Horgan, Briony H; earth, atmospheric & planetary sciences, from Jet Propulsion Laboratory, $46,078, "Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater; Modification 10,Grant 12000172."

Hountz, Randall A and Cline, Melanie R; industrial engineering, from Marion General Hospital, $79,465, "Health Resources and Services Administration (HRSA)-Rural Process Improvement Capability Building – Marion General Hospital." (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Irazoqui, Pedro; biomedical engineering, from Bionode LLC, $50,000, "Chronic Glaucoma Treatment via Wearable Devices Driven by Applied Magnetic Fields."

Jagannathan, Suresh; computer science, from Galois, Inc, $58,583, "SPARTA – the Secure Parser Toolkit for Assurance Amendment #2; Grant 13000753."

Jagannathan, Suresh; computer science, from Systems & Technology Research, $37,000, "Mitchell: Software-Defined Hardware; Modification 3; Grant 19200235."

Johnson, Brandon Charles; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, $104,932, "Dynamics of the Early Solar System and Implications for the Possible Impact Origin of Chondrules."

Kak, Avinash C; electrical & computer engineering, from Applied Research Associates, Inc, $70,000, "Creation of Operationally Realistic 3-D Environment (CORE3D); Modification 7, Grant 13000603."

Kenttamaa, Hilkka I; chemistry, from Naval Surface Warfare Center Crane Div, $60,000, "Ageing Assessment and Lifetime Prediction of Traditional Stochastic and Auxetic Foams for Defense Applications."

Key, Nicole L; mechanical engineering, from Rolls-Royce Corporation, $330,427, "Experimental Study of Flow through Cantilevered Stators."

Key, Nicole L; mechanical engineering, from Rolls-Royce Corporation, $372,397, "Centrifugal Stage Aerodynamic Research (CSTAR) – Laser-Doppler Velocimetry (LDV) Study of Unsteady Diffuser Flow Field."

Klimeck, Gerhard; electrical & computer engineering, from Intel Corporation, $75,000, "Network for Computational Nanotechnology (NCN) Membership-Intel."

Kocsis, Jin; computer information technology, from National Aeronautics and Space Administration, $251,298, "RNCP: a Resilient Networking and Computing Paradigm for National Aeronautics and Space Administration (NASA) Space Exploration."

Kramer, Robert A; Energy Efficiency & Reliability Center, from Universal Lighting of America, $5,000, "Evaluation of Reliability and Failure Modes for a LED Luminaire Design."

Krupke, Christian H; entomology, from University of Nebraska-Lincoln, $4,000, "Soybean Gall Midge: Surveying the North Central Region, Adult Monitoring and Host Plant Resistance."

Kuhn, Richard J; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, $646,229, "Structural Studies of Togaviruses – Grant #1100821."

Kuhn, Richard J; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, $646,229, "Structural Studies of Togaviruses – Grant #1100821."

Kua, Chi Hwan; biomedical engineering, from Tandemlaunch Inc, $600, "Lee Voluntary Support."


Liceaga, Andrea M; food science, from Riverside Natural Foods Ltd, $1,500, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Weaver Popcorn Company, $1,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Karlin Foods Corporation, $3,000, "Multi Sponsored Gift- Sensory."
Little to Pourpoint

Little, Dianne; Aryal, Uma K; Calve, Sarah; Cooper, Bruce R; Sanmiguel, Phillip John and Thimmappuram, Jyothi; basic medicine science, comparative pathobiology, biomedical engineering, medicinal chemistry & molecular pharmacology, genomics core recharge, bioinformatics core recharge, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, $442,079, "Driver Genes for Engineered Rotator Cuff Development (Grant 11000840; Amendment #1)."

MacDermid Wadsworth, Shelley; Ludiker, Keara R and Kirchubel, Linda; human development & family studies, Military Family Research Institute conference, from University of San Diego, $2,000, "Student Service Members and Veterans: Dissemination of Research Findings."

MacDermid Wadsworth, Shelley; Broniarczyk, Kathy M and Topp, Dave; human development & family studies, Military Family Research Institute conference, from Ohio State University, $18,000, "Ohio Star Behavioral Health Providers (SBHP) Technical Services Agreement 2019-2020."

Manfra, Michael James; electrical & computer engineering, from Microsoft Corporation, $487,358, "Microsoft Quantum Computing – Year 3 Supplement 7 – Equipment and Post Docs." (a Discovery Park award – Birck Nanotechnology Center)

Mason, Linda J; graduate school administration, from Purdue Research Foundation, $545,560, "Alliance for Graduate Education and the Professoriate (AGEP) Operating."

Mason, Linda J; graduate school administration, from Purdue Research Foundation, $60,000, "Office of Admissions Recruiting – Graduate Expo."

Matson, Eric T and Smith, Anthony H; computer information technology, from Korea Institute of Machinery & Materials, $39,660, "Development of an Industrial Off-Road Working System Technologies Supporting Autonomous Operations."

McLuckey, Scott A; chemistry, from PHS-NIH National Institute of General Medical Science, $295,117, "Gas-Phase Bio-Conjugation in the Tandem Mass Spectrometry of Peptides, Proteins, and Protein Complexes – Grant #11000826."

Milisavljevic, Danny; physics & astronomy, from Space Telescope Science Institute, $18,187, "The Center of Expansion and Age of Supernova Remnant N132D."

Mishra, Dhrarmendra K; food science, from American Mayhem LLC, $225, "Multi Sponsored Gift."

Mishra, Dhrarmendra K; food science, from Thomas, Charles, $75, "Multi Sponsored Gift."

Mishra, Dhrarmendra K; food science, from Mead Johnson Nutritional, $7,500, "Microbiological Validation Using the Biological Indicators."

Mitchell, Cary A; horticulture & landscape architecture, from Michigan State University, $93,383, "Improving the Profitability and Sustainability of Indoor Leafy-Greens Production."

Morgan, Abby M; field extension, from Indiana Youth Institute, $750, "National Association of Extension 4-H Agents (NAE4-HA) Conference."

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, $40,000, "Flow Boiling and Condensation Experiment (FBCE); Amendment 12, Grant 12000151."

Mukherjee, Partha P; mechanical engineering, from Sloan, Alfred P. Foundation, $55,000, "Recharge, Re-Liquify, Re-Wet (Re3): Self-Healing Interfaces for Solid-State Batteries."

Munson, Eric J; industrial & physical pharmacy, from Multi-Sponsored Industrials, $223,126, "Center for Pharmaceutical Development (CPD) Consortium – 4000291."

Murawski, Matthew M; pharmaceutical practice, from Sands, Thomas M, $1,000, "Multi Sponsor – Voluntary Support."

Nagy, Zoltan; chemical engineering, from International Fine Particle Research Institute Inc., $14,000, "IFPRI Gift."

Neumeister, Norbert and Hacker, Thomas J; physics & astronomy, computer information technology, from Princeton University, $158,942, "US Compact Muon Solenoid (CMS) Group at Purdue University for Activities Related to US Compact Muon Solenoid (CMS) Software and Computing Subsystem."

Nichols, Deborah L; human development & family studies, from Employment, $45,748, "System Impact and Programmatic Outcomes Evaluation of Yes Indy."

Okuniewski, Maria A; materials engineering, from Idaho National Laboratory, $18,690, "Atomistic Simulations of Defects in Uranium-Molybdenum (UMo)."

Ostanek, Jason K; engineering technology, from Citizens Energy Group, $23,514, "Model Development to Predict Natural Air Circulation in the Digindy Tunnel."

Ostanek, Kristine M; human development & family studies, from National Institutes of Health, $173,308, "Bio-Behavioral Developmental Origins of Adolescent Substance Abuse."

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, $50,250, "Turfgrass Research."

Peroulis, Dimitrios; electrical & computer engineering, from Baylor University, $10,000, "Real-Time Optimization of Fundamental and Harmonic Load Impedances, Source Impedance, Input Power, and Bias Voltage for Stable, Adaptive Power Amplifiers in Radar and Electronic Warfare."

Pipes, R Byron; Barocio Vaca, Eduardo and Favaloro, Anthony J; materials engineering, Composites Manufacturing & Simulation Center, from Idaho National Laboratory, $42,000, "Macroscopic Modeling for Additive Manufacturing of Stainless Steel – Extension."

Pipes, R Byron; Barocio Vaca, Eduardo and Favaloro, Anthony J; materials engineering, Composites Manufacturing & Simulation Center, from Idaho National Laboratory, $42,000, "Macroscopic Modeling for Additive Manufacturing of Stainless Steel (Modification 4; Grant 14000426)."

Poggie, Jonathan; aeronautics & astronautics, from Office of Naval Research, $183,603, "Predicting Hypersonic Laminar-Turbulent Transition with Direct Numerical Simulation (Modification 4; Grant 13000541)."

Pourpoint, Timothee L; Gore, Jay P; Heister, Stephen D and Qiao, Li; aeronautics & astronautics, mechanical engineering, from Rolls-Royce Corporation, $408,000, "University Technology Center in Advanced Thermal Management Systems at Purdue University."
Pourpoint to Sinclair

Pourpoint, Timothee L: aeronautics & astronautics, from National Aeronautics and Space Administration, $35,000, "Physical and Thermo-dynamic Properties of Mixed Oxides of Nitrogen."


Prokopy, Linda S: forestry & natural resources, from Iowa State University, $183,986, "Extending the Agricultural Conservation Planning Framework for Natural Resources Conservation Service (NRCS) Evaluation and Adoption in Multiple States."


Qu, Ming: civil engineering, from National Science Foundation, $8,000, "Collaborative US-Ireland: Thermoelectric Concrete Envelope (Themo-conc) (Grant 10001326; Amendment #2)."


Reifenberger, Ronald George: physics & astronomy, from Colorado State University, $20,000, "A Study of Protective Clothing to Prevent Nanoparticle Exposure and Surface Contamination." (a Discovery Park award – Birck Nanotechnology Center)

Reklaitis, Gintaras V; Gonzalez, Marcial and Nagy, Zoltan: chemical engineering, mechanical engineering, from Rutgers State University, $350,000, "Assessment of Industry 4.0 in Advancing Continuous Pharmaceutical Manufacturing, Year 2; Grant #I1000803."

Ribeiro, Fabio H: chemical engineering, from Countrymark, Inc., $30,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ribeiro, Fabio H: chemical engineering, from Chevron U.S.A., Inc., $60,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium – Chevron USA, 40001938."

Ribeiro, Fabio H: chemical engineering, from BgtL, Inc, $5,000, "Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR) Industrial Consortium."

Ridgway, Kenneth D: earth, atmospheric & planetary sciences, from James B Cearley III, $10,000, "Cearley Basin Analysis Fund-Voluntary Support."

Riley, Donna M: engineering education, from Purdue Doctoral Program, $10,320, "Matters, Memoria, Elizabeth."

Rogers, Timothy G: electrical & computer engineering, from National Science Foundation, $121,111, "Faculty Early Career Development (CAREER): Accessible Accelerators: Leveraging Productive Software on Efficient Hardware."

San Martin-Gonzalez, Maria Fernanda: food science, from Urban Vines, $70, "Multi-Sponsor Gift Funds."

San Martin-Gonzalez, Maria Fernanda: food science, from Kathyrn Rippel, $1,000, "Multi-Sponsor Gift Funds."

San Martin-Gonzalez, Maria Fernanda: food science, from Crazy Horse Hops LLC, $150, "Multi-Sponsor Gift Funds."

Sandhage, Kenneth H: materials engineering, from Massachusetts Institute of Technology, $75,951, "High Temperature Pumps and Valves for Molten Salt; Amendment 2 for Grant #I4000408."

Sandhage, Kenneth H: materials engineering, from Virginia Commonwealth University, $222,215, "Mechanisms Mediating Osseointegration of 3-D Printed Titanium Constructs; Amendment 1, Grant #11000849."

Sandhage, Kenneth H and Sangid, Michael D: materials engineering, aeronautics & astronautics, from Rolls-Royce Corporation, $127,663, "Fatigue of Silicon Carbide (SiC)-Based Composites."

Sangid, Michael D: aeronautics & astronautics, from Northrop Grumman Corporation, $15,000, "Probability Theory & Probabilistic Design Sciences."


Scott-Moncrieff, Joanna C R: veterinary clinical sciences, from MSPCA-Angell, $22,388, "LAS Moroccan Residency."


Sen, Shreyas: electrical & computer engineering, from National Science Foundation, $50,000, "T-Corps: Secure Two-Factor Authentication (2FA) with Wearable Hardware Key Using Human Body as a Wire."

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." (a Discovery Park award – Birck Nanotechnology Center)

Shaver, Gregory M: mechanical engineering, from University of Wisconsin-Madison, $140,703, "Improving Efficiency of Off-Road Vehicles by Novel Integration of Electric Machines and Advanced Combustion Engines."

Shih, Tom I-P: aeronautics & astronautics, from Ames Laboratory, $100,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Gas Turbines; Amendment 1, Grant 1400047."
**Slipchenko to Wilker**

**Slipchenko, Lyudmila V:** chemistry, from Q-Chem, Inc., $45,000, “Effective Fragment Potentials Made Faster.”

**Slipchenko, Mikhail N:** mechanical engineering, from Sandia National Laboratories, $31,100, “Construct Frequency Scanning, Injection-Seeded Optical Parametric Oscillator.”

**Snyder, Margie E:** pharmaceutical practice, from R.L. Roudebush Veterans Administration Medical Center, $17,500, “Intergovernmental Personnel Assignment (IPA) Agreement for Margie Snyder.”

**Soderbery, Anson:** economics, from Virginia Polytechnic Institute & State University, $60,000, “Developing a Linked Global-Spatial Crop and Livestock Simulation Model and International Trade Elasticity Estimation.”

**Stahelin, Robert V** and **Ferreira, Christina R:** medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Allergy and Infectious Diseases, $205,700, “Investigation of the Role of Phosphatidic Acid Metabolism in Filovirus Budding.”

**Stewart, Kara R:** animal sciences, from Iowa State University, $22,962, “An Integrated Approach to Improve Whole Herd Pig Survivability; Modification 2, Grant 40002565.”

**Straw, Mark L** and **Byers, Candy S:** animal sciences, State Egg Board, from Agricultural Marketing Service, $47,000, “Country of Origin Labeling for Retail Surveillance Activities.”

**Subbarayan-Shastri, Ganesh:** mechanical engineering, from Semiconductor Research Corporation, $288,889, “Nonlinear Multiscale Modeling for Back-End-Of-Line (BEOL) Structures; Amendment 2 for Grant #40002579.”

**Subbarayan-Shastri, Ganesh:** mechanical engineering, from Semiconductor Research Corporation, $85,000, “Nonlinear Multiscale Modeling for Back-End-Of-Line (BEOL) Structures; Amendment 1, Grant 40002568.”

**Sudhoff, Scott D:** electrical & computer engineering, from Florida State University, $10,714, “Electric Ship Research and Development Consortium (ESRDC) Research Experience for Undergraduates; Amendment 1, Grant 13000762.”

**Sun, Dengfeng:** aeronautics & astronautics, from Shanghai Yiling Information Technology Co, $22,697, “Optimization Model of Airline Crew Management.”

**Sun, Dengfeng:** aeronautics & astronautics, from University of Maryland, $109,273, “Aircraft Characteristics Database.”

**Sundaram, Neera J** and **Reid Smith, Tahira:** mechanical engineering, from Honda Research Institute USA, $310,000, “Trust Calibration Interaction Architecture.”

**Szpankowski, Wojciech:** computer science, from National Science Foundation, $96,000, “Emerging Frontiers of Science of Information (Grant 10000686; Amendment #42).”

**Szpankowski, Wojciech:** computer science, from National Science Foundation, $1,300,000, “Emerging Frontiers of Science of Information; Amendment 41 for Grant #10000686.”

**Szpankowski, Wojciech:** computer science, from National Science Foundation, $1,300,000, “Emerging Frontiers of Science of Information; Amendment 41 for Grant #10000686.”

**Szpankowski, Wojciech:** computer science, from Office of Naval Research, $12,500, “From Local to Global Information.”

**Taheripour, Farzad:** agricultural economics, from Federal Aviation Administration, $523,000, “Techno-Economic and Lifecycle Analysis of Alternative Aviation Biofuels Supply Chains; Amendment 36 for Grant #16100052.”

**Telenko, Darcy E:** botany & plant pathology, from Iowa State University, $30,000, “Developing an Integrated Management and Communication Plan for Soybean Sudden Death Syndrome.”

**Tomar, Vikas; Pol, Vilas G** and **Adams, Thomas E:** aeronautics & astronautics, chemical engineering, nuclear engineering, from Office of Naval Research, $250,000, “Intelligent Battery Management with Thermal Safety Systems for Autonomous Vehicles and Warfighters.”

**Trice, Rodney W** and **Youngblood, Jeffrey P:** materials engineering, from Army Research Office, $35,000, “Forming Transparent Ceramics via Alignment of Alpha-Al2O3 Platelets: a Fundamental Investigation and Forming Study; Modification 6 for Grant #13000550.”

**Trumble, Kevin P** and **Krane, Matthew J:** materials engineering, from Rolls-Royce, Inc., $135,000, “Casting Porosity and Mechanical Properties.”

**Tucker, Mark A:** agricultural sciences education & communication, from Purdue Doctoral Program, $568, “Polowsky, Patrick Joseph.”

**Vacca, Andrea:** agricultural & biological engineering program, from KBY Corporation, $65,000, “Multi Sponsored Gift.”

**Varma, Amit H** and **Seo, Jungil:** civil engineering, from Veolia Water North America, $122,625, “Experimental and Numerical Evaluation of Reinforced Concrete Pier and Pass-through Connection of KCI-3 Structure; Phase 1, Mendment 2; Grant 40002253.”

**Wang, Haiyan:** materials engineering, from Office of Naval Research, $279,999, “Probe the Defect Generation and Propagation Mechanisms in Flash Sintered High Temperature Ceramics via in Situ Transmission Electron Microscope (TEM) (Modification 1; Grant 13000846).”

**Wang, Xiaoming:** engineering technology, from Advanced Technology International, $93,628, “On-Demand Casting of Net-Shape Titanium Components for Improved Weapon Systems; Amendment 3, Grant 13000666.”

**Wassgren, Carl R:** mechanical engineering, from Corteva Agriscience, $32,963, “Pesticide Granule Production Using Twin Screw Granulation.”

**Webb, Kevin J:** electrical & computer engineering, from Army Research Office, $70,041, “The Optomechanical Response of Nanostructured Materials; Modification 8 for Grant #13000482.”

**Webb, Kevin J:** electrical & computer engineering, from Air Force Office of Scientific Research, $211,660, “Optical Imaging and Sensing in a Scattering Environment; Modification 1, Grant 13000717.”

**Weibel, Justin A:** mechanical engineering, from Google Inc, $30,000, “Cooling Technologies Research Center (CTRC).”

**Wilker, Jonathan J:** chemistry, from Office of Naval Research, $147,684, “Making Higher Performance Adhesives that Are Charged, Debondable, and Tough (Modification 2 for Grant #13000749).”
Williams to Zolner

**Williams, Rod N**; forestry & natural resources, from Allison R Litmer, $25, “Voluntary Support.”

**Xu, Qin**; food science, from John Y D Tse (Indiv Donor), $5,000, “Multi Sponsor Gift.”

**Xu, Yunlin**; nuclear engineering, from University of Michigan, $245,479, “Advanced Method Study of the Direct 3-D Whole-Core High-Fidelity Neutron Transport Calculation for the Numerical Nuclear Reactor; Amendment 1 for Grant #40002527.”

**Yang, Baijian**; computer information technology, from Socratic Arts, Inc, $8,000, “Purdue Online Agreement with Socratic Arts, Inc., under Professor Baijian Yang.”

**Yih, Yuehwern**; industrial engineering, from Agency for International Development, $171,675, “Long-Term Assistance and Services for Research (LASER) Buy-IN: Multi-Country Study on Inclusive Education (MCSIE) for Learners with Disabilities in Cambodia, Malawi, and Nepal.”

**Zhang, Zhong-Yin**; medicinal chemistry & molecular pharmacology, from Tyligand Bioscience Ltd, $5,000, “Tyligand Sponsored Research.”

**Zhao, Kejie**; mechanical engineering, from National Science Foundation, $511,312, “Faculty Early Career Development (CAREER): Superelastic Organic Semiconductors (SOSs): A New Class of Molecular Crystals of Responsive Shape Memory.”

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

**Zhou, Chenn Qian**; mechanical & civil engineering, from Advanced Technology International, $72,829, “High Pressure Die Casting Process Simulation for the Shop Floor; Modification 2, Grant 13000668.”

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

**Zillich, Alan J**; pharmaceutical practice, from Eskenazi Health, $434,691, “Clinical Services for Eskenazi Health.”

**Zolner, Patrick A** and **Swihart, Robert K**; forestry & natural resources, from Indiana Department of Natural Resources, $36,761, “Assessing Aspects of Bobcat Spatial and Population Ecology in Indiana; Amendment 1, Grant 20000271.”

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