

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

August 2016

### Agnew to Buzzard

**Agnew, Christopher R;** psychological science, from Ross Graduate Fellowship/Assistantship, \$18,487, "Oday, Garrett."

**Ajuwon, Kolapo;** animal sciences, from Ab Agri Limited, \$15,000, "Swine Research."

**Alexeenko, Alina;** aeronautical & astronautical engineering, from IMA North American Inc, \$10,000, "Lyohub Consortium."

**Alexeenko, Alina;** aeronautical & astronautical engineering, from National Science Foundation, \$6,000, "NSF Research Experience for Undergraduates (REU) PFI: AIR-TT: Microscale Gas Sensor for Process Monitoring and Control in Bio/Pharmaceutical Lyophilization."

**Ambrose, Rose Prabin K;** agricultural & biological engineering, from Abbott Nutrition, \$10,000, "Optimizing Powder Blending for Content Homogeneity."

**Anderson, Joseph M;** agronomy, from Agricultural Research Service, \$2,200, "Acquisition of Goods and Services."

**Anderson, Joseph M;** agronomy, from Advanced Agrilytics LLC, \$50,000, "Potassium Management."

**Ardekani, Arezoo M and Vlachos, Pavlos;** mechanical engineering, from National Science Foundation, \$435,000, "Accumulation of Particles and Organisms in Density Stratified Fluids with Applications in Algal Blooms."

**Bahr, David F;** materials engineering, from Winifred B. Bilsland Endowment, \$20,188, "Kearney, Logan."

**Bahr, David F;** materials engineering, from National Science Foundation, \$270,793, "Collaborative Research: Strengthening Metallic Nanofoams through Ligament Scale Materials Design."

**Bahr, David F and Cheng, Gary J;** materials engineering, industrial engineering, from Hydral Company, \$62,807, "Permanent Marking Methods for Pipeline Carbon Steel Using Laser Processing."

**Bahr, David F;** materials engineering, from Winifred B. Bilsland Endowment, \$20,188, "Krafcik, Matthew."

**Baldwin, Michael E;** earth & atmospheric sciences, from University of Illinois, \$25,000, "Collaborative Research: Improved Understanding of Convective-Storm Predictability and Environment Feedbacks from Observations During the Mesoscale Predictability Experiment (MPLEX), AM 1; (Grant 107687)."

**Baributsa, Dieudonne and Ricker-Gilbert, Jacob E;** entomology, agricultural economics, from Catholic Relief Services, \$37,068, "United in Building and Advancing Life Expectations (UBALE) Project in Malawi."

**Basaran, Osman A;** chemical engineering, from Dow Agro Sciences, \$25,000, "Spraying of Agrochemicals."

**Beaulieu, Lionel J and Wilcox, Michael D;** field extension educators, agriculture – administration, from Indiana Office of Community & Rural Affairs, \$300,000, "Hometown Collaboration Initiative."

**Bermel, Peter A;** electrical & computer engineering, from Winifred B. Bilsland Endowment, \$20,188, "Sakr, Enas Said Attia Mohamed."

**Bertino, Elisa;** computer science, from Agricultural Research Service, \$8,705, "Improving Ionomics Data Management System."

**Bhadra, Anindya;** statistics, from National Science Foundation, \$100,000, "Bayesian Global-Local Shrinkage in High Dimensions."

**Birch, Deborah I;** NC student affairs, from U.S. Department of Education, \$325,920, "Education through Success."

**Bolton, J S;** mechanical engineering, from Beijing Ancsonic Technology Co. Ltd, \$70,000, "China Voluntary Support."

**Bouman, Charles A;** electrical & computer engineering, from Northeastern University, \$75,000, "Alert: CT Image Reconstruction and Processing for Air Transportation Security Phase 2."

**Braun, James;** mechanical engineering, from Johnson Controls, Inc., \$80,000, "Advanced HVAC Controls Evaluation."

**Braun, James E;** mechanical engineering, from Bristol Compressors, Inc., \$25,000, "Center for High Performance Buildings Membership Agreement – Bristol Compressors."

**Brewster, Amy L;** psychological science, from American Epilepsy Society, \$50,000, "The Role of C1q of the Classical Component Pathway in Epileptogenesis."

**Brunswicker, Sabine;** industrial technology, from Red Hat, \$25,000, "Red Hat Doctoral Appointment."

**Brush, Thomas H;** management, from Ross Graduate Fellowship/Assistantship, \$18,487, "Liu, Xiaotian."

**Brush, Thomas H;** management, from Winifred B. Bilsland Endowment, \$19,991, "Guo, Shiao-Ling."

**Brush, Thomas H;** management, from Ross Graduate Fellowship/Assistantship, \$25,683, "OH, Town."

**Buczkowski, Grzegorz A;** entomology, from Ross Graduate Fellowship/Assistantship, \$28,963, "Foster, Bryce."

**Buczkowski, Grzegorz A;** entomology, from C&D Communications, \$2,500, "Multi-Sponsored."

**Bullock, Darcy M;** civil engineering, from Indiana Department of Transportation, \$25,000, "Traffic Signal Systems Operations and Management TPF-5(258) Expansion & Extension."

**Bullock, Darcy M;** civil engineering, from Indiana Department of Transportation, \$816,000, "SPR-3821 Expansion and Extension-Real Time Traffic Operation Mobility Measures."

**Buzzard, Gregory T;** mathematics, from GS Bridge Assistantships, \$22,188, "Flanagan, Kyle."

## Cabot to Delp

**Cabot, Ryan A;** animal sciences, from PHS-NIH National Institute of Child Health and Human Development, \$324,988, “Developmental Requirements of Swi/Snf Chromatin Remodeling Complexes in Porcine Embryos.”

**Caffee, Marc W; Granger, Darryl E; Lifton, Nathaniel A and Muzikar, Paul F;** physics, earth & atmospheric sciences, from National Science Foundation, \$708,000, “Facility Support: Accelerator Mass Spectrometry at Prime Lab.”

**Cai, Hua;** industrial engineering, from Ross Graduate Fellowship/Assistantship, \$29,165, “Wen, Ruoxi.”

**Cai, Hubo;** civil engineering, from Ross Graduate Fellowship/Assistantship, \$29,165, “Cai, Jiannan.”

**Cai, Liping A;** hospitality & tourism, from S China University of Technology, \$24,000, “China Research Programs.”

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

**Caldwell, Barrett S;** industrial engineering, from National Aeronautics and Space Administration, \$360,000, “Indiana Space Grant Fellowship Program 2016-2018 Augmentation.”

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

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

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

**Cappelleri, David J; Ramani, Karthik and Zhang, Song;** mechanical engineering, from National Science Foundation, \$1,000,000, “NRI: Towards Dexterous Micromanipulation and Assembly.”

**Cason, Timothy N;** economics, from Purdue University, \$29,130, “1617 Purdue Research Foundation (PRF) Research Grant - Management.”

**Chandramouli, Chandramouli V;** mechanical engineering – Calumet campus, from Town of Dyer, \$1,800, “Small Grant Support to Help the Town of Dyer Storm Water Board Arc GIS Documentation and Related Field Work.”

**Chang Alexander, Stewart C;** consumer science & retail, from Ross Graduate Fellowship/Assistantship, \$28,963, “Ingersoll, Lukas.”

**Chapple, Clint C;** biochemistry, from U.S. Department of Energy, \$170,000, “Phenylpropanoid Metabolism in Arabidopsis: the Role of REF4.”

**Chen, Qingyan;** mechanical engineering, from Northeastern University, \$30,000, “A Fast Algorithm to Determine Explosive Dispersion in Enclosed Environment.”

**Chen, Weinong W;** aeronautical & astronautical engineering, from Department of the Army, \$220,000, “Biomechanical Materials Characterization.”

**Chen, Yong P;** physics, from National Science Foundation, \$140,000, “Majorana Particles in Topological Insulator Quantum Wires.”

**Chen, Yong P; Jacob, Zubin and Xu, Xianfan;** physics, electrical & computer engineering, mechanical engineering, from National Science Foundation, \$1,963,939, “EFRI NewLaw: Topological Thermal Transport.” (A Discovery Park award – Birck Nanotechnology Center)

**Chen, Zhixiang;** botany & plant pathology, from National Science Foundation, \$183,280, “A Novel Selective Autophagy Pathway in Plant Immune Responses to Necrotrophic Pathogens.”

**Cheng, Gary J;** industrial engineering, from Freedom Photonics, LLC, \$8,000, “Laser Annealing of Sige and Sigesn Thin Film.”

**Cheng, Ji-Xin; Rajwa, Bartlomiej P and Robinson, Joseph P;** biomedical engineering, basic medical science, from PHS-NIH National Institute of General Medical Science, \$428,677, “High-Throughput High-Content Single Cell Analysis by Multichannel Stimulated Raman Flow Cytometry.”

**Christian, John A;** comparative pathobiology, from America Soc for Veterinary Clinical Path, \$650, “Cytology Resource Center.”

**Clawson, Rosalee A;** political science, from Ludwig Kruhe Graduate Scholarship, \$21,188, “Tormos, Fernando.”

**Clawson, Rosalee A;** political science, from Ludwig Kruhe Graduate Scholarship, \$21,188, “Walker-Kulzick, Rachel.”

**Coddington, Jennifer A; Aaltonen, Pamela M and Kirkpatrick, Jane M;** nursing, from Indiana University Health Arnett, \$44,173, “IU Health Faculty Practice Partnership.”

**Cosier, Richard A;** management, from Foundation Center-Cleveland, \$4,775, “Krannert School of Management Graduate Program to Provide Scholarships to First-Year Students Based on Academic Merit.”

**Cruz, Esmeralda;** field extension educators, from Health Care Education-Training Inc, \$33,300, “Youth Rise.”

**Cui, Meng;** electrical & computer engineering, from PHS-NIH National Institute Neurological Disorders and Stroke, \$461,359, “High Resolution Deep Tissue Calcium Imaging with Large Field of View Wavefront Correction.” (A Discovery Park award – Bindley Bioscience Center)

**Davisson, Vincent J;** medicinal chemistry & molecular pharmacology, from National Science Foundation, \$50,000, “Assay Technology for Low Abundance Biomarker Quantification.”

**Dawson, Daniel T; Baldwin, Michael E; Chavas, Daniel R and Tanamachi, Robin L;** earth & atmospheric sciences, from National Oceanographic & Atmospheric Administration, \$173,981, “Improved Understanding of Tornado Development and Risk Using Models and Observations from Vortex-Se 2017.”

**DeLaurentis, Daniel A; Dumbacher, Daniel L; Grant, Michael J and Howell, Kathleen;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$96,876, “Characterizing Mission and System Architecture via Analysis of Operational and Developmental Interdependencies; Amendment 2.”

**DeLaurentis, Daniel A;** aeronautical & astronautical engineering, from Intelligent Automation Inc, \$30,000, “Sufficient Statistics for System of Systems Control (S4c).”

**Delp, Edward J;** electrical & computer engineering, from Raytheon, \$505, “Multi-Sponsor.”

**Delp, Edward J;** electrical & computer engineering, from University of Hawaii, \$51,538, “Domoic Acid Neurotoxicity in Native Americans.”

## Deng to Gabauer

**Deng, Meng** and **Kuang, Shihuan**; agricultural & biological engineering, animal sciences, from National Institutes of Health, \$77,500, "Engineering a Biomaterial Niche of Satellite Cells for Skeletal Muscle Regeneration."

**Deng, Qing**; biological sciences, from PHS-NIH National Institute of General Medical Science, \$369,178, "Role of Micrnas in Neutrophil Migration."

**Dietz, James E**; computer & information technology, from United States Military Academy, \$120,000, "USMA Intergovernmental Personnel Assignment (IPA)."

**Doucette, Suzanne C**; chemistry, from U.S. Department of Energy, \$19,143, "Synthetic, Spectroscopic, and Computational Studies of Uranium Complexes Supported by Redox-Active Ligands."

**Dunning, John B** and **Ruhl, Patrick J**; forestry & natural resources, from Amos W. Butler Audubon Society, Inc., \$3,000, "Worm-Eating Warbler Breeding Demography in South-Central Indiana."

**Dydak, Ulrike**; health sciences, from Yale University, \$234,276, "In Vivo Quantification of Cerebellar Gaba and Naa in Essential Tremor."

**Dyke, Shirley J**; civil engineering, from National Science Foundation, \$100,000, "EAGER: Active Citizen Engagement to Enable Lifecycle Management of Infrastructure Systems."

**Ebert, David S** and **Delp, Edward J**; electrical & computer engineering, from U.S. Department of Homeland Security, \$80,000, "Vbolo Version 2." (A Discovery Park award – Discovery Park Administration)

**Eckhardt, Christopher I**; psychological science, from PHS-NIH National Institute on Alcohol Abuse, \$43,576, "Randomized Controlled Trial of an Attention-Based Intervention for Alcohol-Facilitated Intimate Partner Violence – Joel Sprunger."

**El Gamal, Ali**; electrical & computer engineering, from Huawei Technologies, \$25,650, "Gift Letter in Support of XHAUL for Dynamic Interference Management."

**Elliott, Daniel S**; electrical & computer engineering, from National Science Foundation, \$234,858, "Towards Precision Measurements of Atomic Parity Violation Using Two-Pathway Coherent Control."

**Elliott, Stephen J** and **Oconnor, Kevin J**; industrial technology, from 3M General Offices, \$49,094, "3M Test."

**Erasmus, Marisa A**; animal sciences, from Grassworx LLC, \$7,148, "Investigating Nest Substrate Preferences of Laying Hens."

**Esters, Levon T**; youth development & agricultural education, from John Deere Agricultural US, \$3,750, "John Deere Map Summer Program."

**Eugster, Patrick T**; computer science, from National Science Foundation, \$485,504, "Computer Systems Research (CSR):Small:Elastic and Robust Cloud Programming."

**Farkas, Brian E**; food science, from Geswein Farms, \$30, "Multi-Sponsored Gift Fermentation."

**Fekete, Donna M**; biological sciences, from National Institutes of Health, \$43,576, "Molecular Regulators of Innervation and Patterning Across the Developing Cochlea."

**Field, William E; Baldwin, Charles F** and **Chastain, Cindra M**; agricultural & biological engineering, from Farm Service Agency, \$50,000, "Increasing Awareness of FSA Services and Programs Among Agrability Clientele and Underserved Populations."

**Field, William E**; agricultural & biological engineering, from Farm Credit Council, \$3,800, "Breaking New Ground."

**Finley, John P**; physics, from Winifred B. Bilsland Endowment, \$10,706, "Wang, Haoyu."

**Fisher, Timothy** and **Ruan, Xiulin**; mechanical engineering, from Case Western Reserve University, \$197,185, "Nanofabrication of Tunable 3-D Nanotube Architectures; Amendment 6; (Grant 105800)."

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

**Florax, Raymond; Delgado, Michael S; Waldorf, Brigitte S; Beaulieu, Lionel J; Kumar, Indraneel** and **Wilcox, Michael D**; agricultural economics, Office of Engagement, agriculture - administration, from Economic Research Service, \$75,000, "Resilience to the Intergenerational Transmission of Poverty."

**Foreman, James C** and **Bertino, Elisa**; engineering technology, computer science, from Raytheon, \$70,000, "Survey of Countermeasures in Mission Critical Systems."

**Fouche, Rayvon D**; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$18,538, "Dou, Yu."

**Fouche, Rayvon D**; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$18,538, "Dou, Yu."

**Frisbee, Marty D**; earth & atmospheric sciences, from National Science Foundation, \$90,171, "Collaborative Research: Tectonic and Climatic Forcing of Hydrological Systems in the Southern Great Basin."

**Frosch, Robert J**; civil engineering, from University of Alabama, \$18,117, "Graduate Support for Quang Nguyen."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Zhang, Ying-Sheng."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Paez, Juan."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Maresh, Marianne."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Yadav, Ravi."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Yang, Zhiyu."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Zhang, Jifa."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Wang, Xiaoyu."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Peron, Raquel."

**Gabauer, Colleen L**; graduate school administration, from Purdue Doctoral Program, \$28,963, "Alvarado, Cynthia."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Xie, Dan."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Chen, Hao."

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Brito, Carlos."



## Gabauer to Han

**Gabauer, Colleen L**; graduate school administration, from Purdue Doctoral Program, \$28,960, “Nicholis, Conrad.”

**Gabauer, Colleen L**; graduate school administration, from Purdue Doctoral Program, \$28,960, “Loperena-Medina, Sue Heidi.”

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,879, “Zheng, Fudan.”

**Gabauer, Colleen L**; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, “Zhang, Ke.”

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

**Garimella, Suresh V**; mechanical engineering, from Purdue Doctoral Program, \$20,942, “Son, Karen.”

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

**Garner, Allen L**; nuclear engineering, from Eagle Harbor Technologies, Inc., \$30,500, “Precision, Handheld, Eddy Current Sensor for Nondestructive Evaluation of Spacecraft Structures.”

**Garrison, James L**; aeronautical & astronautical engineering, from Jet Propulsion Laboratory, \$66,944, “Wideband Altimetry Using Signals of Opportunity.” (A Discovery Park award – Purdue Climate Change Research Center)

**Garrison, James L**; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$99,777, “Assimilation of Global Navigation Satellite System (GNSS)-R Delay-Doppler Maps into Hurricane Models.”

**Garrison, James L**; aeronautical & astronautical engineering, from Defense Threat Reduction Agency, \$450,364, “Signatures of Underground Nuclear Tests Observed in the Ionosphere.”

**Gavin, Timothy P**; health & kinesiology, from Ross Graduate Fellowship/Assistantship, \$28,963, “Majed, El Zahraa.”

**Ghiselli, Richard F**; hospitality & tourism, from J. Willard & Alice S Marriott Foundation, \$25,000, “Marriott Executive in Classroom Series.”

**Ghosh, Arun K**; medicinal chemistry & molecular pharmacology, from National Institutes of Health, \$100,000, “Design and Synthesis of Nonpeptide Protease Inhibitors.”

**Ghosh, Arun K**; medicinal chemistry & molecular pharmacology, from National Institutes of Health, \$510,574, “Design & Synthesis of Nonpeptide Protease Inhibitors.”

**Gibson, Kevin D**; botany & plant pathology, from Purdue University Special Initiative Program, \$32,330, “Chong, Rylan.”

**Gillespie, Robert B**; biology — Fort Wayne campus, from Agricultural Research Service, \$38,000, “Effects of Nutrient-Pesticide Mixtures on Biota in Agricultural Headwater Streams in the Midwestern U.S.”

**Gleich, David F**; computer science, from Massachusetts Institute of Technology, \$95,687, “Swept Time-Space Domain Decomposition Rule for Breaking the Latency Barrier, Amendment 1; (Grant 108096).”

**Gleich, David F**; computer science, from Midcontinent Independent System Operator, \$73,601, “Admm for Power-Grid Optimization.”

**Goffman, Lisa A**; speech, language and hearing sciences, from National Institutes of Health, \$43,579, “Articulatory, Segmental, and Prosodic Characteristics in Children with Speech Sound Disorders-Janet Vuolo.”

**Goforth, Reuben R**; forestry & natural resources, from U.S. Geological Survey, \$80,000, “Evaluating an Alternative Fish Barrier Design for Controlling Asian Carp Movements and Establishing a Carp Edna Gradient in the Upper Wabash River Watershed and its Tributaries.”

**Gondhalekar, Ameya D**; entomology, from Bayer Corporation, \$10,000, “Comparing Efficacy of Maxforce Cockroach Baits and Competitor Products in Controlling German Cockroach Infestations in Multi-Family Housing.”

**Gore, Jay P**; mechanical engineering, from George Washington Carver Fellowship, \$22,188, “Terrell, Glenn.”

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

**Greene, Christopher H**; physics, from National Science Foundation, \$85,000, “Collaborative Research: Few-Body Interactions in Ultracold Quantum Gases.”

**Grigorescu, Elena**; computer science, from National Science Foundation, \$200,000, “EAGER: Complexity of Computation on Codes and Lattices.”

**Groll, Eckhard A**; mechanical engineering, from Bristol Compressors, Inc., \$4,778, “Herrick Labs Donation.”

**Gruenbaum, Ellen R**; anthropology, from Ross Graduate Fellowship/Assistantship, \$18,538, “Huang, Sarah.”

**Guan, Wenjing**; horticulture & landscape architecture, from Sakata Seed America Inc., \$1,000, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$2,000, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Hm Clause Inc, \$150, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Hm Clause Inc, \$750, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Syngenta Crop Protection Inc., \$1,500, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Syngenta Crop Protection Inc., \$1,000, “Chris Gunter General Research Activities.”

**Guan, Wenjing**; horticulture & landscape architecture, from Ag Nutrition LLC, \$3,000, “Chris Gunter General Research Activities.”

**Haines, Melinda D**; visual & performing arts – Fort Wayne campus, from Arts United of Greater Fort Wayne, \$4,445, “Indiana University-Purdue University Fort Wayne (IPFW)/Shruti Indian Performance Series – Anoushka Shankar.”

**Hamilton, Roy L**; Education Opportunities Program – Calumet campus, from Indiana Commission for Higher Education, \$2,000, “Indiana Scholarcorps AmeriCorps Program 2016-2017.”

**Han, Qingyou**; engineering technology, from Tianjin Lizhong Alloy Group Co. Ltd, \$10,000, “Center for Materials Processing Research (CMPR).”

## Handwerker to Jacob

**Handwerker, Carol A; Zhao, Fu; Iyer, Ananth V and Sutherland, John W;** materials engineering, mechanical engineering, management, environmental & ecological engineering, from Ames Laboratory, \$370,000, "Critical Materials Institute, Modification 5 [Grant 106637]."

**Harbor, Jonathan M;** earth & atmospheric sciences, from Purdue University Special Initiative Program, \$33,538, "Roemmele, Christopher."

**Hartman, Nathan W;** computer graphics technology, from Rolls-Royce, Inc., \$336,792, "Model-Based Enterprise (MBE) Data and Infrastructure."

**Hartman, Nathan W;** computer graphics technology, from Gulfstream Aerospace Corporation, \$50,000, "Product Lifecycle Management Center of Excellence (Product Lifecycle Management (PLM))."

**Helie, Sebastien;** psychological science, from University of California - Santa Barbara, \$83,854, "The Cognitive Neuroscience of Human Category Learning, Modification 3."

**Helie, Sebastien;** psychological science, from National Science Foundation, \$9,556, "Research Experience for Undergraduates (REU) Supplement: Collaborative Research: A Behavioral and Computational Investigation of the Generality and Transferability of Category Representations."

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

**Hertel, Thomas W;** agricultural economics, from European Commission, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

**Hertel, Thomas W;** agricultural economics, from Productivity Commission, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

**Hertel, Thomas W;** agricultural economics, from Commerce, U.S. Department of, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

**Hogenesch, Harm;** comparative pathobiology, from Bureau of Land Management, \$78,375, "Development of a Next Generation Anti-Fertility Vaccine for Horses."

**Holford, Kenneth C;** engineering, mathematics & science – Calumet campus, from U.S. Forest Service, \$6,000, "Urban Waters Partnership in Northwest Indiana."

**Hong, Wei;** foreign language & literature, from Chinese Language Council International, \$22,533, "Confucius Institute at Purdue University."

**Honnappa, Harsha;** industrial engineering, from National Science Foundation, \$220,658, "Transitory Stochastic Models: Analysis and Optimization."

**Hooser, Stephen B;** comparative pathobiology, from PHS-FDA Food and Drug Administration, \$16,500, "CVM Vet-LRN Veterinary Diagnostic Laboratory Program."

**Hooser, Stephen B;** comparative pathobiology, from PHS-FDA Food and Drug Administration, \$10,000, "CVM Vet-LRN Veterinary Diagnostic Laboratory Program."

**Horgan, Briony H;** earth & atmospheric sciences, from National Aeronautics and Space Administration, \$72,706, "Investigating the Original and Alteration History of North Polar Sediments with High Resolution Spectroscopy."

**Horgan, Briony H;** earth & atmospheric sciences, from National Aeronautics and Space Administration, \$30,000, "The Origin of Hydrated Sulfates in the Southern High Latitudes of Mars for Sheridan Ackiss."

**Hountz, Randall A;** health sciences, from Northwestern University, \$420,910, "Midwest Small Practice Care Transformation Research Alliance, Amendment 1; (Grant 107754)." (A Discovery Park award - regenstrief.)

**Hountz, Randall A;** technical assistance program, from Indiana State Office of Rural Health, \$106,146, "Leadership-Pull Improvements in Critical Access Hospital."

**Howarter, John A;** materials engineering, from National Institute of Justice, \$49,925, "Nanostructural Characterization of Ballistic Fiber Degradation."

**Howell, Kathleen;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$20,000, "Targeting, Guidance and Proximity Operations Near Small Bodies and Complex Multi-Body Regimes: Supplement."

**Hu, Changdeng;** cancer research center, from Army Medical Research Acquisition Activity, \$564,044, "Co-Targeting of Androgen Synthesis and Androgen Receptor Expression as a Novel Treatment for Castration Resistant Prostate Cancer."

**Huang, Fang;** biomedical engineering, from PHS-NIH National Institute of General Medical Science, \$376,214, "Interferometric 3-D Super-Resolution Imaging and Structure and Stoichiometry Mapping in Living Cells."

**Huber, Jessica E; Helie, Sebastien and Lee, Ji Yeon;** speech, language and hearing sciences, psychological science, from Purdue University, \$11,500, "Purdue Institute for Integrative Neuroscience RFA."

**Hwang, Inseok;** aeronautical & astronautical engineering, from Intelligent Automation Inc, \$32,300, "Safety Analysis for Evaluating (SAFE) sUAS."

**Ileleji, Klein;** agricultural & biological engineering, from Foreign Agricultural Service, \$1,224, "Technical Support to the Nigeria Capacity Building Program on Stored Commodities."

**Ileleji, Klein;** agricultural & biological engineering, from Foreign Agricultural Service, \$167,549, "Technical Support to the Nigeria Capacity Building Program on Stored Commodities."

**Ishii, Mamoru;** nuclear engineering, from Nuclear Regulatory Commission, \$100,000, "Noncondensable Gas Transport in Piping Systems."

**Ivantysynova, Monika;** agricultural & biological engineering, from Ford Motor Company, \$40,000, "MAHA Fluid Power Teaching and Research Laboratory."

**Iyer-Pascuzzi, Anjali;** botany & plant pathology, from Purdue Doctoral Program, \$28,457, "Harrington, Emily."

**Jacob, Zubin;** electrical & computer engineering, from Yale University, \$163,311, "Waveguide Nano-SSPD for Advancing the Limits of Photon Detection." (A Discovery Park award — Birck Nanotechnology Center)

## Jacobs to Lechtenberg

**Jacobs, Douglass F;** forestry & natural resources, from U.S. Forest Service, \$5,000, "Nursery Production in the Eastern US."

**Jacobs, Douglass F;** forestry & natural resources, from U.S. Forest Service, \$20,000, "Hardwood Tree Improvement and Regeneration Center."

**Jacobs, Douglass F;** forestry & natural resources, from U.S. Forest Service, \$5,000, "Optimizing Nursery Photoperiod to Promote Root Growth of Forest Tree Seedlings after Planting."

**Jagannathan, Suresh;** computer science, from Defense Advanced Research Projects Agency, \$125,995, "DARPA Intergovernmental Personnel Assignment (IPA) — Suresh Jagannathan."

**Jahanshahi, Mohammad Reza;** civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Ghosh Mondal, Tarutal."

**Jesiek, Brent K and Zoltowski, Carla B;** engineering education, engineering projects in community service (EPICS), from National Science Foundation, \$22,424, "Collaborative Research: Foundations of Social and Ethical Responsibility Among Undergraduate Engineering Students: Comparing Across Time, Institutions, and Interventions."

**Jiang, Qing;** foods & nutrition, from University of North Carolina, \$20,440, "Phase II Studies of Gamma Tocopherol as an Intervention for Environmental Asthma."

**Jiang, Qing;** foods & nutrition, from Winifred B. Bilsland Endowment, \$21,188, "Yang, Chao."

**Jiang, Qing;** foods & nutrition, from Purdue University, \$25,000, "Natural Forms of Vitamin E as Effective Anti-Asthmatic Agents."

**Johnson, David R;** materials engineering, from Bechtel Group, Inc., \$30,000, "Single Crystal Growth of Stainless Steel."

**Johnson, William G;** botany & plant pathology, from FMC Corporation, \$5,000, "Weed Science Research Voluntary Support."

**Johnston, Cliff T;** agronomy, from Michigan State University, \$50,590, "Geochemical Controls on the Adsorption, Bioavailability, and Long-Term Environmental Fate of Polychlorinated, Amendment No. 4."

**Jones, Timothy M;** physics, from Fermi National Accelerator Laboratory, \$191,304, "U.S. Compact Muon Solenoid (CMS) Operations at LHC (UPGRADE-FPIX)."

**Kaplan, Ian; Foster, Ricky E and Krupke, Christian H;** entomology, from National Institute of Food & Agriculture, \$3,673,611, "Navigating the Trade-Off Between Pest Management and Pollinator Conservation in Cucurbits."

**Key, Nicole L;** mechanical engineering, from Rolls-Royce, Inc., \$57,331, "3-Stage Compressor Research for Rear Block Performance."

**Key, Nicole L;** mechanical engineering, from Rolls-Royce, Inc., \$46,406, "CSTAR Performance Research."

**Key, Nicole L;** mechanical engineering, from Duke University, \$61,947, "Grand Challenges in Turbomachinery Forced Response and NSV (207098)."

**Kihara, Daisuke;** biological sciences, from National Science Foundation, \$542,383, "Collaborative Research: Efficient Mathematical and Computational Framework for Biological 3-D Image Data Retrieval."

**Kim, Chang H;** comparative pathobiology, from Ross Graduate Fellowship/Assistantship, \$31,173, "Liu, Qingyang."

**Kim, Hye-Ji;** horticulture & landscape architecture, from Ross Graduate Fellowship/Assistantship, \$18,457, "Lin, Meng-Yang."

**Kokini, Jozef L;** food science, from Fitzpatrick, Cella, Harper & Scinto, \$8,000, "Multi-Sponsored Gift."

**Konieczny, Stephen F;** biological sciences, from Winifred B. Bilsland Endowment, \$10,482, "Peterson, Lenna."

**Konieczny, Stephen F;** biological sciences, from Winifred B. Bilsland Endowment, \$10,482, "Liu, Yue."

**Konieczny, Stephen F;** biological sciences, from Winifred B. Bilsland Endowment, \$10,482, "Ronald, Kelly."

**Konieczny, Stephen F;** biological sciences, from Winifred B. Bilsland Endowment, \$10,706, "Gleichsner, Alyssa."

**Kramer, Rebecca K;** mechanical engineering, from National Aeronautics and Space Administration, \$74,000, "Control of an Active Sensor Skin for Extreme Terrain Mobility."

**Krause, Jane E;** pharmacy practice, from Coalition for a Drug Free Tippecanoe County, \$5,000, "Addressing Prescription Drug Abuse and Misuse on Campus: a Continuing Project."

**Kuang, Shihuan;** animal sciences, from Purdue University, \$24,010, "PCCR Challenge Awards."

**Kuhn, Richard J;** biological sciences, from Washington University, \$36,979, "Antibody-Based Protection Against Dengue Virus, Modification 1; (Grant 108374)."

**Kulkarni, Milind;** electrical & computer engineering, from National Science Foundation, \$54,297, "SI2-SSI: Collaborative Research: Paratree: Parallel Software for Spatial Trees in Simulation and Analysis."

**Kulkarni, Milind;** electrical & computer engineering, from U.S. Department of Energy, \$150,000, "Compiler and Run-Time Approaches to Enable Large Scale Irregular Programs."

**Lacount, Douglas J;** medicinal chemistry & molecular pharmacology, from Washington University, \$271,250, "Defining the Role of Host Factors in Ebola Virus RNA Synthesis."

**Ladisch, Michael R;** agricultural & biological engineering, from Indiana Corn Marketing Council, \$40,000, "Corn Bioreactor Scale-Up."

**Landry, Steven J;** industrial engineering, from Purdue Doctoral Program, \$31,675, "Reinert, Audrey."

**Landry, Steven J;** industrial engineering, from Federal Aviation Administration, \$188,354, "Project #24: Pilot Performance Considerations for Sensor Technologies."

**Landry, Steven J;** industrial engineering, from Purdue Doctoral Program, \$14,130, "Dunn, Jocelyn."

**Lang, Rafael F;** physics, from National Science Foundation, \$64,000, "Collaborative Research: Continuation of the XENON Dark Matter Search Program at LNGS."

**Latin, Richard X;** botany & plant pathology, from Dow Agro Sciences, \$5,000, "Evaluation of Dow Fungicide for Efficacy Against Turf Disease."

**Latin, Richard X;** botany & plant pathology, from Syngenta Crop Protection Inc., \$1,800, "Turfgrass Disease Research."

**Lechtenberg, Victor L;** president, from Indiana University, \$10,000, "Support of Southeastern Small Business Development Center (SBDC)."



## Lee to Mattes

**Lee, Linda S;** agronomy, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, “Bahambari, Peyman.”

**Lehman, James D; Bessenbacher, Ann M and Burgess, Wilella D;** education — administration, from Association of American Universities, \$36,783, “AAU Group on STEMEdhub.” (A Discovery Park award – Discovery Learning Research Center)

**Li, Ninghui;** computer science, from National Science Foundation, \$299,564, “EAGER:Bridging the Gap Between Theory and Practice in Data Privacy.”

**Licato, John C;** computer science – Fort Wayne campus, from Air Force Office of Scientific Research, \$119,999, “Active Formalization through Analogico-Deductive Reasoning.”

**Liceaga, Andrea M;** food science, from Lassonde Specialties Inc, \$1,000, “Multi-Sponsored Gift-Sensory.”

**Liceaga, Andrea M;** food science, from Maplehurst Bakeries Inc., \$2,000, “Multi-Sponsored Gift-Sensory.”

**Liceaga, Andrea M;** food science, from Impossible Foods Inc., \$8,500, “Multi-Sponsored Gift-Sensory.”

**Liceaga, Andrea M;** food science, from Turkey Hill Dairy, \$4,000, “Multi-Sponsored Gift-Sensory.”

**Liceaga, Andrea M;** food science, from Koch Foods of Chicago, \$1,500, “Multi-Sponsored Gift-Sensory.”

**Liceaga, Andrea M;** food science, from Turkey Hill Dairy, \$10,000, “Multi-Sponsored Gift-Sensory.”

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

**Liceaga, Andrea M;** food science, from Cedarlane Natural Foods, \$3,000, “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 Weaver Popcorn Company, \$1,000, “Multi-Sponsored Gift-Sensory.”

**Light, Michael T and Miller, Ty J;** sociology, from National Institute of Justice, \$32,000, “Drugs, DUI, and Crime? What Are the Effects of Legalization of Marijuana in Colorado?”

**Lin, Xiaozhu;** electrical & computer engineering, from National Science Foundation, \$249,548, “Computer Systems Research (CSR): Small: Collaborative Research: Efficient Exploitation of Heterogeneous Memory through OS/Compiler Support.”

**Liu, Anyi and Elish, Karim;** computer science – Fort Wayne campus, from National Science Foundation, \$143,306, “Collaborative Research: Building Cybersecurity Capacity in Pervasive Computing.”

**Liu, Sandra S;** consumer science & retail, from Indiana University, \$19,900, “Exploring De-Adoption of Indiana Local Health Department Accreditation.”

**Liu, Xiaoqi;** cancer research center, from University of Wisconsin-Madison, \$134,850, “Role of Polo-Like Kinase-1 in Melanocytic Transformation.”

**Liu, Xiaoqi and Ratliff, Timothy L;** cancer research center, from National Institutes of Health, \$354,563, “Treatment of Castration-Resistant Prostate Cancer (CRPC).”

**Liu, Xiaoqi;** cancer research center, from University of Wisconsin-Madison, \$77,542, “Role of SIRT1 in Melanocyte Biology and Melanocytic Transformation.”

**Loesch-Fries, Loretta S and Johal, Gurmukh S;** botany & plant pathology, from Foreign Agricultural Service, \$39,983, “East/West Africa Borlaug Fellowship - Plant Health/Biotechnology - Kenya.”

**Low, Philip S;** chemistry, from Hurvis, John Thomas & Julie Ann, \$403,000, “Hurvis Malaria- Hollow Research.”

**Lucht, Robert P and Bolton, J S;** mechanical engineering, from Rolls-Royce, Inc., \$150,000, “Fuel Injector Two-Phase Internal Flow Studies.”

**Luke, Eileen M;** CERIS, from Animal Plant Health Inspection Service, \$17,750, “Notify – a Clearinghouse for Nursery Shipment Notifications to State Plant Regulators.”

**Lyanda-Geller, Yuli;** physics, from U.S. Department of Energy, \$122,000, “Charge Carrier Holes Correlations and Non-Abelian Physics in Nanostructures, Quantum Hall Effect and Hybrid Superconductor/Semiconductor Structures.”

**Lynch, Cyndi D;** graduate school administration, from Purdue University Special Initiative Program, \$29,667, “Lumpkin, Donenique.”

**Lynch, Cyndi D;** graduate school administration, from Purdue University Special Initiative Program, \$29,667, “Wu, Hsin-Man.”

**Lyon, Angeline M;** biological sciences, from American Heart Association, \$231,000, “Rap1-Dependent Phospholipase Cepsilon Activation, a Driver of Cardiac Hypertrophy.”

**Lyutikov, Maxim Y;** physics, from National Science Foundation, \$149,194, “Cosmic Ray-Modified Astrophysical Shocks: Modeling and Observations.”

**Lyutikov, Maxim Y;** physics, from U.S. Department of Energy, \$79,995, “Collaborative Research: Explosive Reconnection in Relativistic Magnetically-Dominated Plasmas.”

**Ma, Jianxin;** agronomy, from Agricultural Research Service, \$1,090, “Profiling Gene Expression in Soybean Cotyledons.”

**MacDermid Wadsworth, Shelley;** child development & family studies, from Ross Graduate Fellowship/Assistantship, \$28,963, “McCall, Christine.”

**MacDermid Wadsworth, Shelley; Broniarczyk, Kathy M and Topp, Dave;** child development & family studies, from Emory University, \$62,859, “Star Behavioral Health Providers Georgia.”

**Magana Deleon, Alejandra J; Benes, Bedrich; Berger, Edward J and Ngambeki, Ida B;** computer & information technology, computer graphics technology, engineering education, from National Science Foundation, \$325,081, “Haptic-Based Learning Experiences as Cognitive Mediators for Conceptual Understanding and Representational Fluency in Engineering Education.”

**Manfra, Michael J;** electrical & computer engineering, from National Science Foundation, \$320,000, “OP: Terahertz Lasers Using Intersubband Transitions in Non-Polar III-Nitrides.”

**Mashtare, Michael L;** agronomy, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, “McLaughlin, Kyle.”

**Mattes, Richard D;** foods & nutrition, from National Institutes of Health, \$73,456, “Interdisciplinary Training in Signals Controlling Ingestion and Obesity.”

## Mattoo to Ong

**Mattoo, Seema** and **Yernool, Dinesh A**; biological sciences, from PHS-NIH National Institute of General Medical Science, \$301,580, “Role of Fic Proteins in Cellular Signaling.”

**McCann, James A**; political science, from Russell Sage Foundation, \$150,000, “The 2016 Latino Immigrant National Election Study (LINES).”

**McDaniel, Rebecca S**; civil engineering, from Martin Imi, Inc., \$20,485, “Determining the Fiber Content in Crack Sealing Materials.”

**McDaniel, Rebecca S**; civil engineering, from Indiana Department of Transportation, \$45,000, “NCSC Base Funding.”

**McKee, Renee K**; **Blankenship, Bonnie T**; **McDonough, Meghan H** and **Snyder, Frank J**; cooperative extension service expenses, health & kinesiology, from National Institute of Food & Agriculture, \$140,000, “4-H PALS Purdue University Sustainable Community Project.”

**Melosh, Henry J**; physics, from National Aeronautics and Space Administration, \$115,760, “Size and Velocity of High-Speed Impact Ejecta.”

**Mengiste, Tesfaye D**; botany & plant pathology, from Rural Development Administration, \$15,797, “Transcriptional Systems in Plant Responses to Pathogens-Grant 208332.”

**Mengiste, Tesfaye D**; botany & plant pathology, from National Science Foundation, \$175,662, “Untangling the Complex Network of BIK1 Mediated Immune Response Signaling Pathways.”

**Merwade, Venkatesh M**; civil engineering, from Cuahsi, \$15,000, “Merwade- CUAHSI Support.”

**Minton, David A** and **Melosh, Henry J**; earth & atmospheric sciences, physics, from National Aeronautics and Space Administration, \$161,385, “Constraining Lunar Crater Saturation by Modeling Gravity Recovery & Interior Lab (GRAIL) Porosity.”

**Minton, David A**; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$30,000, “Tidal Dissipation During Close Encounters.”

**Minton, David A**; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$30,000, “Modeling the Evolution of Lunar Impact Glasses - NESSF Fellowship for Ya-Huei Huang.”

**Mohammadi, Mohsen**; agronomy, from Ross Graduate Fellowship/Assistantship, \$28,963, “Russell, Blake.”

**Molnar, Denes**; physics, from U.S. Department of Energy, \$72,337, “Transition from Dissipative Fluid Dynamics to Particles in Heavy Ion Collisions.”

**Morisette, Dallas T**; electrical & computer engineering, from Sonrisa Research Inc, \$689,325, “Radical Innovations in SIC Power Devices.”

**Mugler, Andrew J**; physics, from Human Frontier Science Program Orgn, \$272,051, “Telling Time with a Noisy Clock: Mechanism of Cell-Intrinsic Temporal Regulation of Gene Expression.”

**Murray, Michael D**; pharmacy practice, from Regenstrief Institute for Health Care, \$115,068, “Observational Medical Outcomes Partnership (OMOP) 2011 Research Collaborations; Amendment 5.”

**Nagele, Monica E**; field extension educators, from Walmart Foundation, \$1,000, “HO 9065.”

**Nakatsu, Cindy H**; agronomy, from U.S. Geological Survey, \$43,260, “Genomic Analysis of Microbial Communities in Degraded Ecosystems.”

**Narimanov, Evgeniy**; electrical & computer engineering, from National Science Foundation, \$302,999, “DMREF: Collaborative Research: Semiconductor Heterostructure Platform for Active Nonlocal Plasmonic and Hyperbolic Materials.” (A Discovery Park award - Birck Nanotechnology Center)

**Nauman, Eric A**; mechanical engineering, from Purdue Doctoral Program, \$10,487, “Lee, Taylor.”

**Nees, Jenna M** and **Pullen, Krista N**; field extension educators, from University of Nebraska-Lincoln, \$34,164, “Farming Together: Next Steps to Successfully Growing Future Farm Generations.”

**Newton, Jill A**; curriculum & instruction, from University of Southern Indiana, \$56,149, “Creating Algebra Teaching Communities for Hoosiers (CATCH).”

**Newton, Kathrynne A**; industrial technology, from Ross Graduate Fellowship/Assistantship, \$18,487, “Zhang, Jianyue.”

**Newton, Kathrynne A**; industrial technology, from Ross Graduate Fellowship/Assistantship, \$18,487, “Sun, Ruiji.”

**Newton, Kathrynne A**; industrial technology, from Ross Graduate Fellowship/Assistantship, \$18,487, “Gu, Yue.”

**Newton, Kathrynne A**; industrial technology, from Purdue Doctoral Program, \$18,487, “Crimmins, Danielle.”

**Newton, Kathrynne A**; industrial technology, from Winifred B. Bilsland Endowment, \$21,188, “Rudari, Lukas.”

**Nielsen, Robert L**; agronomy, from Pioneer Hi-Bred International, Inc., \$10,000, “Corn & Soybean Production.”

**Niyogi, Devdutta S**; agronomy, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, “Sharma, Milind.”

**Njocklibii, Josue**; **Mueller, Donald W**; **Ng, Peter A** and **Yen, Shing-Chung Max**; engineering- Fort Wayne campus, computer science - Fort Wayne campus, from National Science Foundation, \$649,998, “Building a Sustainable Institutional Structure to Support Science, Technology, Engineering & Mathematics (STEM) Scholars at Indiana University-Purdue University Fort Wayne (IPFW).”

**Noinaj, Nicholas**; biological sciences, from Achaogen, \$81,451, “Expression and Purification of the BAM Complex from Acinetobacter Baumannii.”

**Olenchak, F R**; educational studies, from Ross Graduate Fellowship/Assistantship, \$30,089, “Ronyak, Adam.”

**Olenchak, F R**; educational studies, from Purdue University F N Andrews Fellowship, \$30,234, “Lee, Hyeseong.”

**Oliver, Haley F**; food science, from Diversey Lever, \$10,000, “Oliver — Multi-Sponsored Gift.”

**Ong, Chee-Mun**; electrical & computer engineering, from GS Bridge Assistantships, \$8,397, “Prasad, Amritha.”

**Ong, Chee-Mun**; electrical & computer engineering, from Ross Graduate Fellowship/Assistantship, \$29,165, “Stevens, Jacob.”

**Ong, Chee-Mun**; electrical & computer engineering, from Ross Graduate Fellowship/Assistantship, \$29,165, “Fudge, Drummond.”



## Panchal to Redick

**Panchal, Jitesh H;** mechanical engineering, from Tata Consultancy Services, \$221,899, “Decision-Based Collaborative Design Workflow Management for PREM.”

**Patton, Aaron J;** horticulture & landscape architecture, from Precision Laboratories Inc., \$3,000, “Multi-Sponsored.”

**Payne, Lindsey B;** Center for Instructional Excellence, from Indiana Campus Compact, \$3,750, “Building Sustainable Communities through Engagement.”

**Peroulis, Dimitrios; Macheret, Sergey O and Semnani, Abbas;** electrical & computer engineering, aeronautical & astronautical engineering, from National Science Foundation, \$360,000, “Plasmas for Low Noise Reconfigurable Radio Frequency (RF) Systems.” (A Discovery Park award – Birck Nanotechnology Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from IMA Life, \$24,747, “Wireless Temperature Probes for Freeze Dryer Process Monitoring – Phase II.” (A Discovery Park award – Birck Nanotechnology Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$75,000, “Fundamental Research (FSSR Program); Modification 2; Grant 18127.”

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

**Pipes, R Byron and Bogdanor, Michael J;** aeronautical & astronautical engineering, Composites Manufacturing & Simulations Center, from University of Tennessee, \$60,000, “IACMI Proposal for Rapid Response Research (RAPID) Composite Manufacture.”

**Pizlo, Zygmunt;** psychological science, from PHS-NIH National Eye Institute, \$304,358, “Mechanisms Responsible for Veridical Visual Perception.”

**Pol, Vilas G;** chemical engineering, from Texas a&M University, \$110,000, “Addressing Internal Shuttle Effect: Electrolyte Design and Cathode Morphology Evolution in Li-S Batteries, Amendment 2; (Grant 107531).”

**Porterfield, D. M;** agricultural & biological engineering, from Binational Science Foundation, \$14,675, “Remote Mobile Sensors Operation for Water Quality and Security Enhancements of Drinking Water Distribution Systems.” (A Discovery Park award – Birck Nanotechnology Center)

**Porterfield, D. M;** agricultural & biological engineering, from National Aeronautics and Space Administration, \$17,681, “Inter-governmental Personnel Assignment (IPA) Assignment Agreement.”

**Porterfield, D. M;** agricultural & biological engineering, from Binational Science Foundation, \$16,830, “Remote Mobile Sensors Operation for Water Quality and Security Enhancements of Drinking Water Distribution Systems.” (A Discovery Park award – Birck Nanotechnology Center)

**Post, Carol B;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$328,806, “Nuclear Magnetic Resonance (NMR) Structure of Peptide and Protein Complexes.”

**Pothen, Alex;** computer science, from U.S. Department of Energy, \$174,154, “Combinatorial Algorithms in Scientific Computing.”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$74,000, “Performance Characterization of Alternative Hypergolic Propellants – Jared Willits.”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from Physical Sciences, Inc., \$49,000, “Phase 1 STTR: Affordable Nano/Micro Launch Propulsion Stages.”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$74,000, “Reactive Nano Scale Emulsions for High Performance Hybrid Propulsion – Joshua D. Mathews.”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from Indiana Office of Tourism Development, \$81,626, “Indiana Bicentennial Torch Relay - Purdue Statement of Work.”

**Pourpoint, Timothee L; Ramachandran, P V and Bane, Sally P;** aeronautical & astronautical engineering, chemistry, from Missile Defense Agency, \$189,590, “Development and Characterization of Hypergolic Propellants for Mda Applications, Modification 7; [Grant 107631].”

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from Jacobs Essa Group, \$10,387, “Triglyme/Sodium Borohydride Fuel Characterization Support.”

**Povolotskyi, Mykhailo;** electrical & computer engineering, from National Science Foundation, \$144,969, “E2CDA:Type I: Collaborative Research: a Fast 70mv Transistor Technology for Ultra-Low-Energy Computing.” (A Discovery Park award – Network for Computational Nanotechnology)

**Prezzi, Monica and Salgado, Rodrigo;** civil engineering, from Indiana Department of Transportation, \$32,917, “Experimental Study of the Load Response of Closed-Ended and Open-Ended Pipe Piles for Alluvial Soil (Phase II).”

**Pushkar, Yulia N;** physics, from U.S. Department of Energy, \$130,000, “Water Oxidation Catalysis: Multifunctional Assemblies and Control of Reactive Intermediates.”

**Qi, Yuan;** computer science, from Google Inc, \$78,388, “Google PhD Fellowship in Machine Learning – Shandian Zhe.”

**Raghunathan, Anand;** electrical & computer engineering, from Winifred B. Bilsland Endowment, \$20,188, “Raha, Arnab.”

**Ramani, Karthik;** mechanical engineering, from George Washington Carver Fellowship, \$22,188, “Glenn, Terrell.”

**Rapoport, Anatoli;** curriculum & instruction, from JSC Center for International Pro Bolashak, \$97,929, “Kazakhstan English Teacher Professional Development.”

**Ratliff, Timothy L;** comparative pathobiology, from Indiana Elks Charities Inc., \$130,000, “Indiana Elks Charities Inc.(2).”

**Ratliff, Timothy L;** comparative pathobiology, from Purdue University, \$50,000, “1617 Bridge Funding.”

**Redick, Thomas S;** psychological science, from Indiana University, \$36,599, “Behavioral Disinhibition in Early-Onset Alcoholism, Amendment 2; (Grant 107364).”

**Redick, Thomas S;** psychological science, from National Science Foundation, \$287,996, “Collaborative Research: Tailoring Cognitive Training Interventions to the Individual: Testing a Multifaceted Theory of Working Memory.”

## Rhoads to Shepardson

**Rhoads, Jeffrey F; Bolton, J S; Davies, Patricia and Gonzalez, Marcial;** mechanical engineering, from Office of Naval Research, \$329,741, “Integrated Test System for Investigating the Dynamic Response of Energetic and Related Composite Materials Under the Influence of Mechanical and Acoustic Insults.”

**Ribeiro, Fabio H;** chemical engineering, from U.S. Department of Energy, \$153,261, “Fundamental Studies on the Kinetics of Oxidation Reactions.”

**Richert, Brian T;** animal sciences, from Elanco Animal Health, \$14,784, “Enzyme Research – Graduate Student Support.”

**Richert, Brian T;** animal sciences, from Diamond V Mills, Inc., \$12,000, “Swine Research.”

**Richmond, Douglas S;** entomology, from Agricultural Research Service, \$5,000, “Biological Control of Black Cutworm in Turf with Baculovirus.”

**Richmond, Douglas S;** entomology, from Bayer Cropscience, \$13,000, “Turfgrass Entomology Research.”

**Richmond, Douglas S;** entomology, from Syngenta Crop Protection Inc., \$2,400, “Turfgrass Entomology Research.”

**Ridgway, Kenneth D;** earth & atmospheric sciences, from David M. Knox Endowment, \$19,548, “Arementa-Romero, Mariah.”

**Rompf, Tiark;** computer science, from National Science Foundation, \$332,800, “Software and Hardware Foundations (SHF): Medium: Collaborative Research: from Volume to Velocity: Big Data Analytics in Near-Realtime.”

**Rossmann, Michael G and Kuhn, Richard J;** biological sciences, from Washington University, \$299,809, “Antibody-Based Protection Against Dengue Virus, Amendment 3; Grant 106676.”

**Rossmann, Michael G;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$2,008, “Structural Investigations of the Alphaviral Lifecycle.”

**Russell, Mark A;** youth development & agricultural education, from Winifred B. Bilsland Endowment, \$10,246, “Kararo, Matthew.”

**Russell, Mark A;** youth development & agricultural education, from Higher Education Commission Pakistan, \$3,500, “Bench Fee for Gulfam Hassan.”

**Sadeghi, Farshid;** mechanical engineering, from U.S. Department of Energy, \$800,000, “Tribological Damage Mechanisms from Experiments and Validated Simulations of Alloy 800H and Inconel 617 in a Simulated HTGR/VHTR Helium Environment, Rc-2.3: Helium Tribology for HTGRS.”

**Sadof, Clifford S;** entomology, from U.S. Forest Service, \$37,705, “Emerald Ash Borer (EAB) University: Using Web-Based Seminars Cooperatively to Provide Information About Emerald Ash Borer (EAB) and Other Invasive Forest Health Issues to Targeted Audiences.”

**Salazar, Kara A and Pijanowski, Bryan C;** forestry & natural resources, from Indiana Department of Natural Resources, \$70,000, “Tipping Points and Indicators: Engaging Great Lakes Communities to Develop Tipping Point Action Plans.”

**Salgado, Rodrigo;** civil engineering, from CTI and Associates Inc, \$1,000, “Coffee.”

**Sangid, Michael D;** aeronautical & astronautical engineering, from Pratt & Whitney Group, \$50,000, “Validation of Crystal Plasticity Finite Element Method Framework for Prediction of Titanium Alloy Properties.”

**Sangid, Michael D;** aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$120,000, “Identifying the Crack Driving Force Mechanism through a Data-Driven, Bayesian Analysis of Existing High Energy.”

**Saunders, Michael R;** forestry & natural resources, from U.S. Forest Service, \$168,773, “End-of-Rotation Prescribed Fire: Tree- and Stand-Level Effects on Qualify and Lumber Value Recovery.”

**Schmidt, Edie K and Stephens, Matthew P;** industrial technology, from Bosma Enterprises, \$9,039, “Bosma Enterprises Facility Relocation Project.”

**Schmitt, Sara A and Purpura, David J;** child development & family studies, from Oregon State University, \$36,943, “Red Light, Purple Light – Developing a Self-Regulation Intervention for Children at-Risk for School Difficulty, Amendment 1; (Grant 107841).”

**Schneider, Steven P;** aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$80,000, “Towards a Process for Calibrating 1-MHz Pressure-Fluctuation Sensors with Small Pressure Steps in a Shock Tube.”

**Scott-Moncrieff, Joanna C;** veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$10,331, “Ecc Residency Training Program.”

**Scott-Moncrieff, Joanna C;** veterinary clinical science, from Veterinary Vision of Rochester, \$10,113, “Radiology Residency Support.”

**Shakouri, Ali;** electrical & computer engineering, from Eli Lilly and Company, \$105,000, “Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART).”

**Shalaev, Vladimir M; Boltasseva, Alexandra; Narimanov, Evgeniy and Cox, Monica F;** electrical & computer engineering, engineering education, from Norfolk State University, \$66,500, “Partnership for Research and Education in Materials: Partnership for Advanced Functional Metamaterials (Meta-PREM); Amendment 4, Grant 106224.” (A Discovery Park award – Birk Nanotechnology Center)

**Shalaev, Vladimir M and Boltasseva, Alexandra;** electrical & computer engineering, from Stanford University, \$100,000, “Integrated Hybrid Nanophotonic Circuits; Amendment 8; Grant 105831.”

**Sheehan, Amy H;** pharmacy practice, from Janssen Scientific Affairs, \$86,954, “FDA/Purdue/ Janssen Scientific Affairs Regulatory Pharmaceutical Fellowship.”

**Sheehan, Amy H;** pharmacy practice, from Takeda Pharmaceutical International Inc US Region, \$156,342, “Takeda-Purdue Regulatory Fellowship.”

**Sheffield, John W;** lafayette polytechnic, from International Association for Hydrogen Energy, \$2,500, “IAHE Expenses.”

**Shepardson, Daniel P; Bayley, William G; Sands, Philip A; Smith, Steven C and Walker, William S;** science – administration, chemistry, computer science, earth & atmospheric sciences, office of engagement, from Lafayette School Corporation, \$5,000, “Content Thematic Units for Intergrated Science, Technology, Engineering & Mathematics (STEM) Education.”

## Singh to Wendt

**Singh, Manpreet**; food science, from Aaron Jordan, \$75, "Multi-Sponsored Gift."

**Singh, Manpreet**; food science, from Kathy Kaspar, \$150, "Multi-Sponsored Gift."

**Sintim, Herman O**; chemistry, from University of Maryland, \$124,834, "The Bacterial Mechanosensitive Channel as a Multimodal Sensor Device."

**Smith, Mjt; Mason, Linda J; Yadav, Aman and Sahley, Christie L**; graduate school administration, educational studies, biological sciences, from National Science Foundation, \$46,000, "Professorial Advancement Initiative."

**Smith, Mjt**; graduate school administration, from Purdue University Special Initiative Program, \$30,872, "Ahanger, Mohsen."

**Smith, Mjt**; graduate school administration, from Purdue University Special Initiative Program, \$28,879, "Armadita, Filza."

**Snow, Lowell D**; technical assistance program, from National Institute of Standards & Technology, \$2,758,688, "FFO 2014-NIST-01, Award Competition for Indiana Hollings NIST Manufacturing Extension Partnership (MEP) Center YR2 Continuation."

**Son, Steven F**; mechanical engineering, from Alion Science and Technology, \$40,000, "Shear Impact of Reactives for Bullet Impact Spotting Applications."

**Son, Steven F**; mechanical engineering, from Northeastern University, \$61,691, "Christian Sorensen - Center of Excellence for Awareness and Localization of Explosives-Related Threats (ALERT)."

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

**Staiger, Christopher J**; biological sciences, from U.S. Department of Energy, \$150,000, "Regulation of Actin Stochastic Dynamics: Actin and Myosin Involvement in Delivery of Materials to the Cell Wall."

**Stantz, Keith M**; health sciences, from Lilly (ELI) and Company, \$14,026, "Effects of Targeting Anti-Angiogenic Pathways on the Tumor Microenvironment Using Photoacoustic Computed Tomographic Imaging."

**Stefancik, Jennifer L**; field extension educators, from The Glick Fund, \$7,056, "Gardening, Cooking and Helping Others in Daviess County."

**Strachan, Alejandro H**; materials engineering, from Air Force Research Laboratory, \$49,999, "Large-Scale Molecular Dynamics Simulations of Ferroelectric Properties of Nanoparticles, Modification 1; (Grant 108246)."

**Tao, Weiguo A and Zhang, Dabao**; biochemistry, statistics, from PHS-NIH National Institute of General Medical Science, \$301,561, "A Proteomic Platform to Identify and Validate Biomarkers in Metabolic Syndrome and Coronary Artery Disease."

**Taylor, Lynne S**; industrial & physical pharmacy, from U.S. Department of Education, \$443,052, "Pharmaceutical Engineering 2015 Graduate Assistance in Areas of National Need (GAANN)."

**Teegarden, Dorothy**; foods & nutrition, from Winifred B. Bilsland Endowment, \$21,188, "Wilmanski, Tomasz."

**Thottethodi, Mithuna S; Rao, Sanjay G and Vijaykumar, T N**; electrical & computer engineering, from National Science Foundation, \$500,000, "Computer Systems Research (CSR): Small: Smart-edge for Low Latency and Consistent Mobile Web Applications."

**Topp, Elizabeth M**; industrial & physical pharmacy, from Hoffmann-La Roche Inc., \$103,613, "Solid-State Hydrogen/Deuterium Exchange with Mass Spectrometric Analysis (ssHDX-MS) for a Lyophilized Monoclonal."

**Tuinstra, Mitchell R; Agee, April A; Crawford, Melba M; Jin, Jian and Weil, Clifford F**; agronomy, agriculture – administration, agricultural & biological engineering, from United Sorghum Checkoff Program Board, \$199,725, "Developing Prediction Models for Water and Nitrogen Status in Sorghum."

**Tung, Wen-Wen and Luo, Qianwen**; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$13,860, "Impacts on the Surface Energy Balance by the US Landfalling Atmospheric Rivers."

**Ukkusuri, Satish V; Sundaram, Shreyas and Lee, Seung Yoon**; civil engineering, electrical & computer engineering, communication, from National Science Foundation, \$2,204,202, "CRISP Type 2: Collaborative Research: Critical Transitions in the Resilience and Recovery of Interdependent Social and Physical Networks."

**Vanfossen, Phillip J**; curriculum & instruction, from FMC Agricultural Chemical Group, \$27,912, "Adetunjil, Adegoke."

**Vanfossen, Phillip J**; curriculum & instruction, from Purdue Doctoral Program, \$31,900, "Strait, Marquettea."

**Varma, Amit H and Seo, Jungil**; civil engineering, from Charles Pankow Foundation, \$600,000, "Seismic and Wind Behavior and Design of Coupled CF-CPSW Core Walls for Steel Buildings."

**Wachs, Juan P**; industrial engineering, from Purdue University F N Andrews Fellowship, \$31,593, "Gonzalez, Glebys."

**Wang, Xiao**; statistics, from National Science Foundation, \$100,000, "Prediction Models Based on Large Scale Image Data."

**Wasserman, Adam**; chemistry, from U.S. Department of Energy, \$48,809, "Partition Density Functionals: Theory and Applications."

**Watts, Val J**; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Mental Health, \$442,159, "Understanding Adaptive Signaling of Neuronal Adenylyl Cyclases Using siRNA."

**Weatherman, Kara D**; pharmacy practice, from Teva Pharmaceuticals, USA, \$52,979, "Evaluation of Tevadaptor in Radiology Applications."

**Weaver, Connie M**; foods & nutrition, from Ross Graduate Fellowship/Assistantship, \$28,963, "Jun, Shinyoung."

**Weil, Clifford F**; agronomy, from Weil, Clifford F, \$3,006, "Multi-Sponsored."

**Weiner, Andrew M**; electrical & computer engineering, from Optical Society of America, \$1,250, "The Optical Society - Voluntary Support."

**Weinstein, Dana and Roy, Kaushik**; electrical & computer engineering, from HRL Laboratories, LLC, \$673,839, "The Unconventional Processing of Signals for Intelligent Data Exploitation."

**Wendt, Oliver**; speech, language and hearing sciences, from Speak Modalities LLC, \$50,000, "Integrated Framework for Simultaneous Generative Language Training and Progress Tracking for Minimally Verbal Children with Autism."



## Wise to Zinsmeister

**Wise, Kiersten A;** botany & plant pathology, from BASF Corp, Chemicals Div., \$1,200, “Voluntary Support Account.”

**Wright, Wayne E;** curriculum & instruction, from Zhengzhou Yuren Education Group, \$7,000, “Professional Development for Yuren Education Group Teachers.”

**Wu, Benxin;** mechanical engineering, from Innovative Scientific Solutions, Inc., \$8,086, “Laser Machining of Ridges on Wind Tunnel Test Model Tips.”

**Xiang, Chong;** economics, from Purdue University, \$29,130, “1617 Purdue Research Foundation (PRF) Research Grant - Management.”

**Xu, Qin;** food science, from University of Idaho, \$3,600, “Identifying How Potato Skin Wastes Produced in Idaho Can Be Used to Modulate Glycemic Response.”

**Xu, Xianfan; Boudouris, Bryan W and Pan, Liang;** mechanical engineering, chemical engineering, from National Science Foundation, \$1,250,000, “Special Nuclear Material (SNM): Continuous and Scalable 3-D Nanoprinting.” (A Discovery Park award – Birck Nanotechnology Center)

**Xu, Xianfan;** mechanical engineering, from Advancement Storage Technology Consortium, \$70,000, “Novel NFT Design with Improved Optical Throughput and Confinement.” (A Discovery Park award – Birck Nanotechnology Center)

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

**Yang, Won Sik;** nuclear engineering, from U.S. Department of Energy, \$640,000, “Development of Transient Capabilities for the NEAMS Neutronics Code PROTEUS.”

**Ye, Peide;** electrical & computer engineering, from National Science Foundation, \$40,000, “EFRI 2-DARE: Phosphorene, an Unexplored 2D High-Mobility Semiconductor.” (A Discovery Park award – Birck Nanotechnology Center)

**Young, Bryan G;** botany & plant pathology, from Miller Chemical & Fertilizer Corp., \$500, “Multi-Sponsored Gift Account.”

**Youngblood, Jeffrey P;** materials engineering, from U.S. Forest Service, \$15,000, “Hydrophobized Cellulose Nanomaterials by Fatty Acids, Biodiesel, and Plant Oils for Polymer Composites.”

**Zaspel, Jennifer M and Nearns, Eugenio H;** entomology, from National Science Foundation, \$179,663, “CSBR: Natural History: Rehabilitation and Revitalization of the Purdue Entomological Research Collection.”

**Zaspel, Jennifer M;** entomology, from Ross Graduate Fellowship/Assistantship, \$28,963, “Andrew, Theresa.”

**Zentner, Michael G;** academic technologies, from National Science Foundation, \$107,269, “Collaborative Research: SI2-SSI: Adding Volunteer Computing to the Research Cyberinfrastructure.”

**Zhang, Guangjun and Deng, Qing;** comparative pathobiology, biological sciences, from Purdue University, \$25,000, “Revealing the Roles of Membrane Potential in Tumor-Neutrophil Interactions Using a Zebrafish Model.”

**Zhang, Haiyan H;** engineering technology, from Faurecia Emissions Control Technology, Inc., \$10,000, “Center for Technology Development Consortium (CTD).”

**Zhang, Hao; Niyogi, Devdutta S; Preckel, Paul V and Hertel, Thomas W;** statistics, agronomy, agricultural economics, from Kansas State University, \$119,849, “The Role of International Trade in Adapting US Agriculture to Increased Global Climate Variability.”

**Zhang, Min; Fleet, James C and Liu, Wanqing;** statistics, foods & nutrition, medicinal chemistry & molecular pharmacology, from National Institutes of Health, \$144,153, “Administrative Supplement to: Big Data Training for Translational Omics Research.”

**Zhang, Xiangxiang;** mathematics, from National Science Foundation, \$71,022, “Robust and Efficient High Order Methods for Time Dependent Problems.”

**Zhao, Lan;** academic technologies, from National Science Foundation, \$412,326, “Collaborative Research: Abi Development: Origin: Origin Inference from Geospatial Isotope Networks.”

**Zhou, Chenn Q;** Center for Innovation thru Visualization & Simulation, from Automotive m/f Technical Education, \$30,000, “AMTEC Virtual Simulator Continuation.”

**Zhou, Chenn Q;** mechanical engineering – Calumet campus, from Cliffs Natural Resources, \$25,000, “Steel Manufacturing Simulation and Visualization Consortium.”

**Zhou, Chenn Q;** Center for Innovation thru Visualization & Simulation, from Arcelormittal USA, \$35,206, “Walking Beam Reheat Furnace Optimization.”

**Ziaie, Babak;** engineering administration engineering experiment, from Nextflex, \$594,197, “A Flexible Smart Wound Dressing with Integrated on-Demand O<sub>2</sub>-Release and Sensing Capability.” (A Discovery Park award – Birck Nanotechnology Center)

**Zillich, Alan J;** pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$81,209, “R.L. Roudebush Veterans Administration Medical Center.”

**Zillich, Alan J and Weddle, Kellie Jones;** pharmacy practice, from Indiana University Health, \$92,774, “Co Funded Position with IU Health.”

**Zinsmeister, William J;** earth & atmospheric sciences, from ExxonMobil Foundation Fund, \$1,500, “Zinsmeister Research.” ■

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