

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

July 2017

Abel to Bahr

Abel, Steven R and **Vanfossen, Phillip J**; Office of Engagement, education-administration, from Woodrow Wilson National Fellowship Foundation, \$30,000, "Indiana Science, Technology, Engineering & Mathematics (STEM) Teaching Fellowship Mentoring."

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

Aggarwal, Vaneet; industrial engineering, from National Science Foundation, \$7,800, "Research Experience for Undergraduates (REU) Supplement: Small: Collaborative Research: Communications with Energy Harvesting Nodes."

Agrawal, Rakesh and **Tawarmalani, Mohit**; chemical engineering, management, from U.S. Department of Energy, \$310,122, "Development of Method and Algorithms to Identify Easily Implementable Energy-Efficient Low-Cost Multicomponent."

Agrawal, Rakesh; Tuinstra, Mitchell R; Bermel, Peter A; Brouder, Sylvie M; Duval-Couetil, Nathalie A; Gitau, Margaret W; Harris, Michael T and **Sesmero, Juan P**; chemical engineering, agronomy, electrical & computer engineering, technology, leadership, & innovation, agricultural & biological engineering, agricultural economics, from National Science Foundation, \$2,510,755, "NRT- INFEWS: Collaborative Research: Sustainable Food Energy and Water Systems (SFEWS)."

Alexeenko, Alina; aeronautics & astronautics, from Pfizer Inc, \$10,000, "Lyohub Consortium."

Alexeenko, Alina; aeronautics & astronautics, from IMA North American Inc, \$10,000, "Lyohub Consortium."

Allebach, Jan P; electrical & computer engineering, from Hewlett Packard, \$9,954, "Training-Based Half-Tone Algorithms for Better Half-Tone Image Quality for the HP Digital Press."

Alsop, Janet M; curriculum and instruction, from Purdue Doctoral Program, \$32,041, "Chhikara, Alankrita."

Alsop, Janet M; curriculum and instruction, from Ross Graduate Fellowship-Assistantship, \$32,041, "Premont, David."

Alsop, Janet M; curriculum and instruction, from Ross Graduate Fellowship-Assistantship, \$32,041, "Zhou, Lili."

Alsop, Janet M; curriculum and instruction, from Purdue University F N Andrews Fellowship, \$20,162, "Adetunji, Adegoke."

Alsop, Janet M; curriculum and instruction, from Winifred B. Endowment Bilsland, \$21,526, "Karimi, Nastaran."

Alsop, Janet M; curriculum and instruction, from Purdue University F N Andrews Fellowship, \$32,041, "Farmer, Tadd."

Alsop, Janet M; curriculum and instruction, from Winifred B. Bilsland Endowment, \$9,683, "Kersey, Elizabeth."

Anderson, Theresa M and **Plaut, Karen I**; animal sciences, agriculture – administration, from Binational Agricultural Research & Development, \$5,840, "Photoperiod Effects on Lactating Goats: Are They Mediated by the Molecular Clock in the Mammary Gland?"

Apostoaia, Constantin M; electrical and computer engineering, from The Vibration Institute, \$1,000, "Condition Monitoring and Fault Diagnosis of Induction Motor Drives."

Applegate, Bruce M; food sciences, from Smithfoods Inc, \$4,500, "Food Microbiology Research."

Armstrong, S D; English, from David M. Knox Endowment, \$21,229, "Hall, Johnay."

Armstrong, S D; English, from Purdue Doctoral Program, \$25,229, "Ford, Shaun Bryan."

Armstrong, S D; English, from David M. Knox Endowment, \$21,229, "Schneiders Kelsey."

Armstrong, S D; English, from David M. Knox Endowment, \$21,229, "Rutledge, Tamara."

Bagchi, Saurabh and **Goldwasser, Dan**; electrical & computer engineering, computer science, from National Science Foundation, \$66,523, "NeTS: Medium: Collaborative Research: Tango: Performance and Fault Management."

Bahr, David F; materials engineering, from Winifred B. Bilsland Endowment, \$21,229, "Huang, Sabrina."

Bahr, David F; materials engineering, from National Science Foundation, \$301,235, "Designing 2d Nanostructured Metals for Age Hardenability."

Bahr, David F; materials engineering, from George Washington Carver Fellowship, \$26,987, "Deneke, Naomi."

Bahr, David F; materials engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Weaver, Erich."

Bahr, David F; materials engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Elquist, Aline."

Bahr, David F; materials engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Serratos, Carlos."

Bahr, David F; materials engineering, from Purdue Doctoral Program, \$31,904, "Kedir, Nesredin."

Bahr, David F; materials engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Heflin, Diana."

Bahr, David F; materials engineering, from Purdue Doctoral Program, \$31,904, "Paldi Robynn."

Bahr, David F; materials engineering, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, "Lund, Jarrod."

Baribusta to Chandramouli

Baributsa, Dieudonne; entomology, from Multi-Sponsored Industrials, \$19,654, "Pics Voluntary Support."

Baributsa, Dieudonne and **Woloshuk, Charles P**; entomology, botany and plant pathology, from Palladium International, LLC, \$50,746, "Feed the Future Ag Diversification Activity – Malawi."

Beaulieu, Lionel J and **Kumar, Indraneel**; agricultural economics, Office of Engagement, from Mississippi State University, \$35,000, "Stronger Economies Together Phase VII."

Beckerman, Janna L; botany and plant pathology, from BASF Corporation, \$4,000, "Indiana Arborists Association, Inc."

Berger, Edward J; engineering education, from Purdue Doctoral Program, \$31,904, "GE, Julianna."

Bhave, Sunil A; electrical & computer engineering, from General Electric Company, \$80,000, "Real Time Simulations of Complex Physical Systems."

Bigelow, Cale A; horticulture and landscape architecture, from BASF Corporation, \$8,280, "BASF Project 2017 (Record Id 85297851)."

Bigelow, Cale A; horticulture and landscape architecture, from Azomite Soil Productions LLC, \$2,538, "Putting Greens Research."

Bilionis, Ilias; Nguyen, Thanh T and **Panchal, Jitesh H**; mechanical engineering, management, from National Science Foundation, \$502,945, "Understanding Strategic Behavior in Systems Engineering a Theoretical Framework Based on Dynamic Network Games of Incomplete Information."

Bobet, Antonio and **Haikal, Ghadir**; civil engineering, from Indiana Department of Transportation, \$20,613, "SPR-3857 Assessment of Pipe Fill Heights."

Bogdanor, Michael J; Composites Manufacturing & Simulations Center, from Institute for Advanced Composites Manufacturing Innovation, \$17,667, "Ad Van Trailer Coupler Finite Element Analysis."

Bolin, Jeffrey T; Executive Vice President for Research & Partnerships, from Purdue University, \$29,526, "FY17-18 Purdue Research Foundation (PRF) Research Grant."

Bouman, Charles A; electrical & computer engineering, from Showalter Trust, \$60,000, "Showalter Professorship 2017."

Bouman, Charles A; electrical & computer engineering, from Northrop Grumman Corporation, \$30,000, "Model Based Iterative Reconstruction Methods for Computed Tomography (CT), Change Order 3; (Grant 108846)."

Braile, Lawrence W; earth, atmospheric, & planetary science, from American Geophysical Union, \$20,000, "AGU Sage Support Gift."

Bullock, Darcy M; civil engineering, from Kittelson & Associates, \$73,177, "NCHRP 03-122 Performance Based Management of Traffic Signals; Amendment 1, Grant 108604."

Buzzard, Gregory T; mathematics, from Purdue Doctoral Program, \$18,874, "Martinez, Atzimba."

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship-Assistantship, \$18,874, "Glenn, Gavin."

Buzzard, Gregory T; mathematics, from Purdue University F N Andrews Fellowship, \$18,528, "Himes, Zachary."

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship-Assistantship, \$18,874, "Eldaghar, Omar."

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship-Assistantship, \$18,874, "Lacclair, Adam."

Buzzard, Gregory T; mathematics, from Purdue Doctoral Program, \$22,729, "Esqueda, Arianna."

Buzzard, Gregory T; mathematics, from Purdue University F N Andrews Fellowship, \$18,874, "Polak, Raymond."

Cai, Liping A; hospitality & tourism management, from Ross Graduate Fellowship-Assistantship, \$29,526, "Shi, Jieyu."

Cai, Zhiqiang; mathematics, from National Science Foundation, \$107,225, "A Posteriori Error Estimation through Duality and Some Other Topics."

Cakmak, Mukerrem; mechanical engineering, from Imagine Research and Technology Inc, \$252,303, "Development of Transparent Conductive Films." (a Discovery Park award – Birck Nanotechnology Center)

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$760,000, "Indiana Space Grant Fellowship Program 2015-2018."

Capano, Michael A; electrical & computer engineering, from Purdue Doctoral Program, \$31,904, "Kalaswad, Matias."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Krithivasan, Sarada."

Capano, Michael A; electrical & computer engineering, from Winifred B. Bilsland Endowment, \$21,229, "Si, Mengwei."

Capano, Michael A; electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$21,229, "Lingaraju, Navin."

Capano, Michael A; electrical & computer engineering, from Purdue Doctoral Program, \$21,229, "Green, Roland."

Capano, Michael A; electrical & computer engineering, from Winifred B. Bilsland Endowment, \$21,229, "Sengupta, Abhronil."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Kaiser, Jan."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Qu, Xiangyu."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Zhang, Xiarui."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Hastings, Ryan."

Capano, Michael A; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$19,729, "Prematilake, Malin."

Carlson, Erica; physics and astronomy, from National Science Foundation, \$105,000, "Decoding Spatial Complexity in Strongly Correlated Electronic Systems."

Chandramouli, Chandramouli V; mechanical and civil engineering, from Town of Dyer, \$6,000, "Small Grant Support to Help the Town of Dyer Storm Water Board Arc GIS Documentation and Related Field Work."

Chaubey to Fahmy

Chaubey, Indrajeet; earth, atmospheric, & planetary science, from Ross Graduate Fellowship-Assistantship, \$29,526, “Mittal, Gaurav.”

Chen, Weinong W; aeronautics & astronautics, from Office of Naval Research, \$35,000, “Visualization of Composite Damage by Direct Energy.”

Chen, Weinong W; aeronautics & astronautics, from Procter & Gamble Company, \$65,000, “Mechanical Characterization of P&G Materials.”

Cheng, Guang; statistics, from Office of Naval Research, \$79,164, “Statistical and Computational Tradeoffs in Massive Data.”

Choi, Jong Hyun; mechanical engineering, from National Science Foundation, \$390,000, “Photo-Reconfiguration of Topological DNA Origami Nanostructures.”

Christ, Sharon L; human development and family studies, from Spencer Foundation, \$49,884, “The Impacts of Emotional Neglect During Adolescence on Academic Functioning and Long-Term Educational Attainment: How Do Schools Facilitate Protection?”

Christov, Ivan C; mechanical engineering, from National Science Foundation, \$299,460, “Microscale Fluid-Structure Interactions: Towards a Predictive Theory of Their Dynamic Response.”

Clawson, Rosalee A; political science, from Ludwig Kruhe Graduate Scholarship, \$21,224, “Vllasi, Elis.”

Clawson, Rosalee A; political science, from Purdue Doctoral Program, \$25,224, “Ferrer-Nunuz, Shariana.”

Clawson, Rosalee A; political science, from Ross Graduate Fellowship-Assistantship, \$18,574, “Dervisevic, Lejla.”

Clawson, Rosalee A; political science, from Purdue University F N Andrews Fellowship, \$21,224, “Jett, Janel.”

Clawson, Rosalee A; political science, from George Washington Carver Fellowship, \$26,982, “Jackson, Jasmine.”

Clawson, Rosalee A; political science, from Purdue University F N Andrews Fellowship, \$23,224, “Yalbir, Sihem Naz.”

Collingsworth, Paris D; forestry and natural resources, from University of Illinois, \$34,616, “Improving Community Resiliency in the Great Lakes through Applied Research and Extension; Amendment 3, Grant 108149.”

Corti, David S; chemical engineering, from Purdue Doctoral Program, \$31,904, “Torres Jessica.”

Corti, David S; chemical engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Akriti Akriti.”

Corti, David S; chemical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Finkenauer, Blake.”

Corti, David S; chemical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Bickel, Elizabeth.”

Corti, David S; chemical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Coultais-Mckenney, Caralyn.”

Corti, David S; chemical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Weideman, Kyle.”

Csathy, Gabor A; physics and astronomy, from National Science Foundation, \$116,356, “Probing Non-Abelian Quasiparticles with Johnson Noise Limited Measurements.”

Dadarlat, Marius D; mathematics, from National Science Foundation, \$58,410, “Operator Algebras, Groups and Topological Invariants.”

Delgado, Michael S; Kumar, Indraneel; Waldorf, Brigitte S and Beaulieu, Lionel J; agricultural economics, Office of Engagement, from Economic Research Service, \$75,000, “Resilience to the Inter-generational Transmission of Poverty.”

Deng, Meng; agricultural & biological engineering, from Purdue Doctoral Program, \$31,904, “Lengemann, Paul.”

Dietz, James E; Aaltonen, Pamela M and Field, William E; computer and information technology, nursing, agricultural & biological engineering, from Edventure Partners, \$2,000, “Peer to PEER: Hoosier Neighbor?”

Doucette, Suzanne C; chemistry, from National Science Foundation, \$405,000, “Establishing Bonding and Reactivity in Organometallic Uranium Species.”

Dunning, John B; Higdon, Ashley E and Neumann, Landon K; forestry and natural resources, First Street Towers, from Amos W. Butler Audubon Society, Inc., \$1,500, “Using Stable Isotopes and Satellite Transmitters to Track Northern Saw-Whet Owls in West-Central Indiana.”

Dunning, John B and Ruhl, Patrick J; forestry and natural resources, from Amos W. Butler Audubon Society, Inc., \$3,000, “Postfledging Associations of Mature Forest Birds with Early Successional Habitat in South-Central Indiana.”

Ebert, David S and Surakitbanharn, Chittayong; electrical & computer engineering, from Morgan State University, \$7,979, “Visual Analytics Summer Training for Morgan State University Students.”

El Gamal, Ali; electrical & computer engineering, from Huawei Technologies, \$25,650, “Xhaul for Dynamic Interference Management.”

Elliott, Daniel S; electrical & computer engineering, from National Science Foundation, \$174,573, “Towards Precision Measurements of Atomic Parity Violation Using Two-Pathway Coherent Control.”

Engel, Bernard A; agricultural & biological engineering, from Higher Education Commission Pakistan, \$3,500, “Bench Fees – Nowsher Yousaf.”

Erasmus, Marisa A; animal sciences, from Agricultural Research Service, \$24,225, “Effect of Short Term High Tryptophan Diet Fed to Sows on Subsequent Piglet Behavior.”

Fahmy, Sonia A; Zhu, Xiao; Felisberto Martins Ribeiro, Bruno; Ngambeki, Busiime I and Key, Nicole L; Center for Education & Research in Information Assurance & Security, ITaP Research Computing, computer science, computer and information technology, mechanical engineering, from National Science Foundation, \$841,506, “CICI: CE: Enhancing Cybersecurity for Broadening Data Driven Research and Partnerships.”

Farkas to Hartman

Farkas, Brian E; food sciences, from Crazy Horse Hops LLC, \$150, “Multi Sponsored Gift Fermentation.”

Farkas, Brian E; food sciences, from Annual Reviews, \$500, “Multi Sponsored Gift.”

Farkas, Brian E; food sciences, from Heartland Food Products Group, \$1,500, “Pilot Plant Multi-Sponsored Gift.”

Farkas, Brian E; food sciences, from D. Kay Cooksey, \$250, “Pilot Plant Multi-Sponsored Gift.”

Feinberg, Richard A; consumer science, from Ross Graduate Fellowship-Assistantship, \$29,526, “Meier, Stephanie.”

Fentiman, Audeen W; engineering education, from U.S. Department of Energy, \$15,000, “W Fullmar, J Boguski, 09/10, C Brooks 10/11 T Novakowski 13/14 Fellows – Cooperative Agreement to Host DOE Fellows and Scholars at Purdue University.”

Fernandez-Juricic, Esteban; biological sciences, from Avangrid, \$225,930, “Understanding the Golden Eagle Sensory World to Enhance Detection and Response to Wind Turbines.”

Ferraro, Kenneth F; sociology, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Huffman, Mary.”

Field, William E; agricultural & biological engineering, from Indiana Grain and Feed Association, \$250, “Farm Safety.”

Figueiredo, Marxa L; basic medical sciences, from Winifred B. Bilsland Endowment, \$32,389, “Rivera-Cruz, Corsette.”

Fisher, Timothy; mechanical engineering, from Rolls-Royce, Inc., \$100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership.”

Fisher, Timothy; mechanical engineering, from The Boeing Company, \$100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership.”

Fleet, James C; nutrition science, from Purdue University F N Andrews Fellowship, \$29,176, “Lobene, Andrea.”

Fleet, James C; nutrition science, from Winifred B. Bilsland Endowment, \$21,829, “Carreiro, Alicia.”

Fleet, James C; nutrition science, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Wang, Yu.”

Fleet, James C; nutrition science, from Winifred B. Bilsland Endowment, \$21,829, “O’Connor, Lauren.”

Fleet, James C; nutrition science, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Kim, Sora.”

Flesch, Lucy M; earth, atmospheric, & planetary science, from National Science Foundation, \$294,288, “Quantifying the Role of Mantle Flow in Driving Surface Deformation in Alaska through 3-D Numerical Simulations.”

French, Doran C; human development and family studies, from Purdue University F N Andrews Fellowship, \$18,874, “Simon, Kara.”

French, Doran C; human development and family studies, from Ross Graduate Fellowship-Assistantship, \$18,874, “Horvath, Gregor.”

Friedman, Elliot M and Christ, Sharon L; human development and family studies, from PHS-NIH National Institute on Aging, \$241,031, “Living Well with Later Life Multimorbidity: A Biopsychosocial Approach.”

Garcia, R Edwin and Stanciu, Lia A; materials engineering, from National Science Foundation, \$450,000, “NSF/Dmr-Bsf: Ceramic Electrode/Electrolyte Interfaces Fundamentals in All Solid State Li-Ion Batteries.”

Garner, Allen L; Harris, Jason T and Okuniewski, Maria A; nuclear engineering, health sciences, materials engineering, from Nuclear Regulatory Commission, \$51,252, “Nuclear Science and Engineering Fellowship Program at Purdue University.”

Garner, Allen L; nuclear engineering, from Office of Naval Research, \$56,623, “Nanoscale Effects on Gas Breakdown and Electron Emission.”

Garrison, James L; aeronautics & astronautics, from Jet Propulsion Laboratory, \$51,944, “Wideband Altimetry Using Signals of Opportunity; Amendment 1; Grant 108562.”

Gavin, Timothy P; health & kinesiology, from Purdue University F N Andrews Fellowship, \$29,176, “Cui, Chuyi.”

Gitau, Margaret W; agricultural & biological engineering, from Purdue Doctoral Program, \$31,904, “Mijares, Valeria.”

Gletsu-Miller, Nana A; nutrition science, from J. Bruce Wicking, \$2,000, “Nana Gletsu-Miller.”

Goni Cortes, Joaquin; industrial engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Duong-Tran, Duy.”

Gotham, Douglas J and Preckel, Paul V; biological sciences, agricultural economics, from Midcontinent Independent System Operator, \$208,148, “A Proposal to Provide Independent Energy and Peak Demand Forecasts to the Midcontinent System Operator (MISO).” (a Discovery Park award – Energy Center)

Gowher, Humaira; biochemistry, from PHS-NIH National Institute of General Medical Science, \$320,880, “Regulation of Dnmt3 Activity at Enhancers of Cell Identity Genes During Differentiation.”

Grant, Richard H; agronomy, from AMEC, \$15,225, “Dry Deposition Monitoring at Vincennes Indiana, Amendment 1.”

Greeley, Jeffrey P; chemical engineering, from Winifred B. Bilsland Endowment, \$21,229, “Majumdar, Paulami.”

Greene, Christopher H; physics and astronomy, from National Science Foundation, \$90,000, “Collaborative Research: Few-Body Interactions in Ultracold Quantum Gases.”

Guan, Wenjing; horticulture and landscape architecture, from Hm Clause Inc, \$700, “Chris Gunter General Research Activities.”

Hamaker, Bruce R and Ferruzzi, Mario; food sciences, from Kansas State University, \$176,462, “Expanding Markets for Sorghum and Millet Farmers in West Africa through Strengthening of Entrepreneur Processors and Nutrition-Based Promotion of Products.”

Handwerker, Carol A; materials engineering, from Ames Laboratory, \$391,000, “Critical Materials Institute; Modification 8 [Grant 106637]”

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$33,097, “2016-17 Joint PhD Program for Graduate Support – Silvia Canelon.”

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

Heeg to Kluender

Heeg, Marlene O; pharmacy administration, from Novartis Pharmaceuticals Corporation, \$120,000, "Psoriasis and Psoriatic Arthritis: Strategies for Targeted Care and Multidisciplinary Management."

Heeg, Marlene O; pharmacy administration, from Boehringer Ingelheim Pharmaceutical Inc, \$100,000, "Managing Type 2 Diabetes: the Role of Insulin."

Heister, Stephen D; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Harroun, Alexis."

Hertel, Thomas W; agricultural economics, from National Institute of Standards & Technology, \$20,435, "Global Trade Analysis Project (GTAP) Consortium."

Hertel, Thomas W; agricultural economics, from European Commission, \$21,335, "Global Trade Analysis Project (GTAP) Consortium."

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

Hoffmann, Stephen R; engineering education, from Winifred B. Bilsland Endowment, \$21,229, "Hsu, Erh-Ting."

Hoffmann, Stephen R; engineering education, from Purdue University F N Andrews Fellowship, \$29,176, "Mash, Brandon."

Hoffmann, Stephen R; engineering education, from Purdue University F N Andrews Fellowship, \$29,176, "Quinn, Caitlin."

Hook, Tomas O; forestry and natural resources, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, "Nease, Patricia."

Hook, Tomas O; forestry and natural resources, from University of Illinois, \$52,473, "Minibus 2016-2018."

Hountz, Randall A; industrial engineering, from Indiana Family & Social Services Administration, \$41,040, "IDMHA Lean Support for Integrated Care Entities." (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Huang, Chi-Hua; agronomy, from Advanced Design & Machine, \$2,700, "Liming Research Program."

Huang, Libai; chemistry, from U.S. Department of Energy, \$150,000, "Spatial and Temporal Imaging of Multi-Scale Interfacial Charge Transport in Two-Dimensional Heterostructures."

Huang, Rong; medicinal chemistry and molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$304,324, "Protein N-Terminal Methylation Mechanisms and Inhibition."

Hubbard, Sarah M; aviation & transportation technology, from Ross Graduate Fellowship-Assistantship, \$18,874, "Wang, Cheng."

Hudmon, Karen S; pharmacy practice, from Indiana State Department of Health, \$250,000, "Bringing Indiana Along."

Hung, Chen-Lung; physics and astronomy, from Office of Naval Research, \$220,000, "Ultracold Molecule Assembly with Photonic Crystals."

Hurt, R D; history, from Purdue University F N Andrews Fellowship, \$23,224, "Vsetecka, Johnathon."

Hwang, Inseok; aeronautics & astronautics, from Intelligent Automation Inc, \$192,415, "Safety Analysis for Evaluating (SAFE) sUAS."

Hynes, Morgan M; engineering education, from Winifred B. Bilsland Endowment, \$21,229, "Hira, Avneet."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$14,000, "Advanced Two-Phase Instrumentation: Experimental Support for Trace Model Development."

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$44,106, "Task 4: Non-Condensable Gas Transport."

Iyer, Ananth V; Dunlop, Steven R and Labi, Samuel; management, digital education, civil engineering, from Indiana Department of Transportation, \$225,000, "Ohio River Bridge, PRB, Project after Action Review of Procurement Models."

Iyer, Ananth V; management, from Purdue University F N Andrews Fellowship, \$15,023, "Ferguson, Victor."

Jahanshahi, Mohammad Reza; civil engineering, from Electric Power Research Institute (EPRI), \$15,000, "Analyzing Videos for Autonomous Crack Detection."

James, Adrian M; managerial studies, from Indiana Campus Compact, \$2,050, "Improving Knowledge of Effective Team Practices Using a Service Learning Project."

Janick, Jules; horticulture and landscape architecture, from Lillian Goldman Charitable Trust, \$10,000, "Art in Horticulture."

Jiang, Yiwei; agronomy, from Midwest Regional Turf Foundation, \$4,000, "Turf Physiology."

Johnson, Mark C; electrical & computer engineering, from Intel Corporation, \$10,000, "Embedded Systems Education."

Johnson, Mary E; aviation & transportation technology, from Purdue University F N Andrews Fellowship, \$16,044, "Feng, Yilin."

Johnson, Mary E; aviation & transportation technology, from Purdue Doctoral Program, \$12,925, "Holtaway, Lorraine."

Johnson, William G; botany and plant pathology, from Engage Agro, \$54,600, "Weed Science Research Voluntary Support."

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

Johnson, William G; botany and plant pathology, from United Phosphorus Inc, \$16,800, "Weed Science Research Voluntary Support."

Jun, Martin Byung-Guk; mechanical engineering, from Burroughs Wellcome Fund, \$7,000, "Diagnosis from Exhaled Breath Using Fiber Optic and Nanodevice Based Sensors."

Kentamaa, Hilkka I; chemistry, from Neste Oil Oyj, \$12,527, "Development of Methodology for the Molecular Level Characterization of Paraffins."

Kim, Hye-Ji; horticulture and landscape architecture, from Higher Education Commission Pakistan, \$3,500, "Development of Management Strategies to Improve Yield and Quality of Horticultural Crops."

Kinzer-Ursem, Tamara L; biomedical engineering, from Trask Trust Fund, \$12,000, "Portable Platform for Pathogen Detection."

Kirkpatrick, Jane M; nursing, from Health Resources & Services Administration, \$1,198,609, "Health Center Cluster."

Kluender, Keith R; speech, language & hearing sciences, from Winifred B. Bilsland Endowment, \$21,829, "Suresh, Chandan."

Konieczny to MacDermid Wadsworth

Konieczny, Stephen F; biological sciences, from Winifred B. Bilsland Endowment, \$11,229, “Parvate, Amar.”

Konieczny, Stephen F; biological sciences, from Winifred B. Bilsland Endowment, \$11,229, “Zhang, Kaibo.”

Konieczny, Stephen F; biological sciences, from Purdue University F N Andrews Fellowship, \$29,176, “Vannatta, Jonathan.”

Latin, Richard X; botany and plant pathology, from BASF Corporation, \$4,000, “Turfgrass Disease Research.”

Lee, Bethany E and White, Sarah E; English, from Indiana Campus Compact, \$100, “Slamcamp 2017.”

Lee, Hyowon and Bentley, Robin T; biomedical engineering, veterinary clinical sciences, from PHS-NIH National Institute Neurological Disorders and Stroke, \$188,040, “In Vivo Evaluation of Implantable Self-Clearing Catheter for Hydrocephalus.”

Leonard, Laurence B; Christ, Sharon L; Deevy, Patricia L and Karpicke, Jeffrey D; speech, language & hearing sciences, human development and family studies, psychological science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$527,435, “Retrieval-Based Word Learning in Specific Language Impairment.”

Leung, Yuk Fai; biological sciences, from Schlumberger Foundation, \$46,199, “Fellowship for Prahatha Venkatraman.”

Li, Tongcang; physics and astronomy, from National Science Foundation, \$89,258, “Faculty Early Career Development (CAREER): Quantum Spin-Optomechanics of Optically Levitated Nanodiamonds.”

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

Liceaga, Andrea M; food sciences, from Morgan Foods Inc., \$3,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food sciences, from Bay Valley Foods LLC, \$1,500, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food sciences, from Monogram Food Solutions Inc, \$6,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food sciences, from Impossible Foods Inc., \$2,000, “Multi Sponsored Gift – Sensory.”

Liceaga, Andrea M; food sciences, from Impossible Foods Inc., \$6,000, “Multi Sponsored Gift – Sensory.”

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

Liceaga, Andrea M; food sciences, from Heartland Food Products Group, \$6,000, “Multi Sponsored Gift – Sensory.”

Lin, Xiaozhu; electrical & computer engineering, from National Science Foundation, \$250,000, “SaTC: CORE: Small: Collaborative: Guarding the Integrity of Mobile Graphical User Interfaces.”

Linnes, Jacqueline C; Kinzer-Ursem, Tamara L and Kim, Hye-Ji; biomedical engineering, horticulture and landscape architecture, from PHS-Biomedical Imaging & Bioengineering, \$216,957, “Biosensor for Non-Invasive Glucose Detection in Exhaled Breath Condensates.”

Longuski, James M and Saikia, Sarag J; aeronautics & astronautics, from Hampton University, \$29,438, “SNAP: Small Next-Generation Atmospheric Probe.”

Low, Philip S; Purdue Institute for Drug Discovery, from Endocyte, Inc., \$700,000, “Folate Chemo: Novel, Non-Toxic, Delivery of Chemotherapeutics.”

Lucht, Robert P; mechanical engineering, from Siemens Power Generation Inc, \$100,000, “Distributed Combustion Studies in the Purdue High-Pressure Gas Turbine Combustion Test Rig.”

Luo, Zhao-Qing and Das, Chittaranjan; biological sciences, chemistry, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$405,709, “Effector-Mediated Ubiquitin Manipulation in Legionella Pneumophila Pathogenesis.”

Lyle, Ladawn T; comparative pathobiology, from Ross Graduate Fellowship-Assistantship, \$31,904, “Dieterly, Alexandra.”

Lynall, Matthew D; management, from National Science Foundation, \$50,000, “I-Corps Team – Rocket Launch System.”

Ma, Zhao; agricultural & biological engineering, from University of Illinois at Champaign-Urbana, \$99,356, “Combining Societal Acceptance and Biophysical Drivers of Conservation Practices to Improve Water Quality in Multi-Use Landscapes.”

Ma, Zhao; forestry and natural resources, from Chappelle, \$21,229, “Hawes, Jason.”

Ma, Zhao; Bauchet, Jonathan J and Zanolli, Laura C; forestry and natural resources, consumer science, anthropology, from National Science Foundation, \$125,525, “Co-Producing Environmental Conservation and Social Equity: is Conditionality in Payments for Ecosystem Services a Necessity or Impediment?.”

Ma, Zhao; forestry and natural resources, from Purdue Doctoral Program, \$29,526, “Nixon, Rebecca.”

MacDermid Wadsworth, Shelley and Wagner, Janet L; human development and family studies, from the Department of Veterans Affairs, \$13,138, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Janet Wagner.”

MacDermid Wadsworth, Shelley and Christensen, Richard L; human development and family studies, from Department of Veterans Affairs, \$1,454, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration Richard Christensen.”

MacDermid Wadsworth, Shelley and Collette, Christy L; human development and family studies, from Department of Veterans Affairs, \$8,401, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration Christy Collette.”

MacDermid Wadsworth, Shelley and Topp, Dave; human development and family studies, from Department of Veterans Affairs, \$25,669, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Dave Topp.”

MacDermid Wadsworth, Shelley and Wellnitz, Andrea L; human development and family studies, from Department of Veterans Affairs, \$20,472, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Andrea Wellnitz.”

MacDermid Wadsworth, Shelley and Watkins, Natasha D; human development and family studies, from Department of Veterans Affairs, \$14,922, “Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Natasha Watkins.”

MacDermid Wadsworth to Newton

MacDermid Wadsworth, Shelley and **Kirchubel, Linda**; human development and family studies, from Department of Veterans Affairs, , \$8,670, "Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Linda Kirchubel."

MacDermid Wadsworth, Shelley and **Wilson, Steven R**; human development and family studies, communication, from Department of Veterans Affairs, , \$25,889, "Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Steven Wilson."

MacDermid Wadsworth, Shelley and **Elias, Cezanne M**; human development and family studies, from Department of Veterans Affairs, , \$12,231, "Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration Cezanne Elias."

MacDermid Wadsworth, Shelley; human development and family studies, from Department of Veterans Affairs, , \$32,512, "Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration for Dr. MacDermid Wadsworth."

MacDermid Wadsworth, Shelley and **Sternberg, Martina M**; human development and family studies, from Department of Veterans Affairs, , \$22,560, "Intergovernmental Personnel Assignment (IPA) with MN Veterans Administration Martina Sternberg."

Magana Deleon, Alejandra J; computer and information technology, from National Science Foundation, \$114,398, "Collaborative Research: SmartCAD: Guiding Engineering Design with Science Simulations."

Malis, Oana and **Manfra, Michael J**; physics and astronomy, electrical & computer engineering, from National Science Foundation, \$145,035, "Novel Infrared Optical Materials Based on III-Nitride Semiconductors."

Manfra, Michael J; physics and astronomy, from Microsoft Corporation, \$127,125, "Microsoft Quantum Computing."

Marinero-Caceres, Esteban E; **Boltasseva, Alexandra** and **Shalaev, Vladimir M**; materials engineering, electrical & computer engineering, from Office of Naval Research, \$149,989, "Merging Spintronics and Nanophotonics: the Confluence of Spin, Photons, Plasmons and Charge for Novel Hybrid." (a Discovery Park award – Birk Nanotechnology Center)

Mattson, Marifran; communication, from Ross Graduate Fellowship-Assistantship, \$21,224, "Eise, Jessica."

Mattson, Marifran; communication, from Chappelle, \$21,224, "Holmes, Madeleine."

Mattson, Marifran; communication, from Purdue University F N Andrews Fellowship, \$23,224, "Barber, Hayden."

Mattson, Marifran; communication, from Knox, David M. Endowment, \$21,229, "Ware, Amanda."

Maynard, Elizabeth T; horticulture and landscape architecture, from Crookham Company, \$1,100, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture and landscape architecture, from High Mowing Organic Seeds, \$100, "Research for 1995 Vegetable Variety Trial Program."

McKee, Renee K; cooperative extension service expenses, from National 4-H Council, \$12,000, "Establishing a CS Pathway for Americas Youth."

McLucky, Scott A; chemistry, from Merck Sharp & Dohme Corp, \$50,000, "Evaluation of a High-Throughput Analysis Approach Based on Mass Spectrometry Using Proton Transfer Ion/Ion Reactions and/or DMS-MS for Screening the Physical Stability of Proteins and Peptides in Solution."

McLucky, Scott A; chemistry, from National Science Foundation, \$274,000, "Instrument Development: High Performance Electrostatic Linear Ion Trap Mass Spectrometry."

McMillan, Sara K and **Merwade, Venkatesh M**; agricultural & biological engineering, civil engineering, from National Science Foundation, \$312,066, "INFEWS N/P/H₂O: Nitrogen and Phosphorus Dynamics in Restored Floodplains of Intensively Managed Watersheds."

McMillan, Sara K; agricultural & biological engineering, from University of Illinois at Champaign-Urbana, \$100,000, "Environmental Trade-Offs in Water Quality and Climate Regulation Resulting from Floodplain Restoration Using the Two-Stage Ditch."

Meilan, Richard; forestry and natural resources, from Lockheed Martin Corp., \$2,000, "Futuragene Transformation Optimization."

Meilan, Richard; forestry and natural resources, from Enp Investments, \$500, "Voluntary Support Research / Development."

Mengiste, Tesfaye D; botany and plant pathology, from Rural Development Administration, \$16,402, "Transcriptional Systems in Plant Responses to Pathogens."

Mickelbart, Michael V; horticulture and landscape architecture, from Purdue University F N Andrews Fellowship, \$30,386, "Mano, Noel."

Mittal, Suresh K; comparative pathobiology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$385,429, "Adenoviral Vector-Based Pandemic Influenza Vaccine."

Mou, Shaoshuai; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Jin, Wanxin."

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

Mutchler, Jane F; business, from Indiana University Northwest, \$15,000, "Northwest Indiana Small Business Development Center 2017 – IUN Cash Match Support."

Nagy, Zoltan; chemical engineering, from Eli Lilly and Company, \$25,000, "Continuous In-Situ Seed Generation and Crystal Growth Using a Novel Integrated MSM-PR-OBC Combination Approach."

Nagy, Zoltan; **Koswara, Andy** and **Szilagyi, Botond**; chemical engineering, from National Science Foundation, \$50,000, "I-Corps Team: MiniPharm: Miniaturized, End-to-End Pharmaceutical Manufacturing Platform."

Newton, Kathryn A; technology, leadership, & innovation, from Winifred B. Bilsland Endowment, \$10,229, "Park, Gilchan."

Newton, Kathryn A; technology, leadership, & innovation, from Purdue University F N Andrews Fellowship, \$18,528, "Zhang, Jianyue."

Newton, Kathryn A; technology, leadership, & innovation, from Purdue Doctoral Program, \$18,528, "Crimmins, Danielle."

O'Haire to Redick

O'Haire, Marguerite E; comparative pathobiology, from Purdue University F N Andrews Fellowship, \$21,229, "Rodriguez, Kerri."

Olenchak, F R; educational studies, from Purdue University F N Andrews Fellowship, \$29,505, "Joy, Eileen."

Olenchak, F R; educational studies, from David M. Knox Endowment, \$22,182, "Josie, Samuel."

Olenchak, F R; educational studies, from Winifred B. Bilsland Endowment, \$21,526, "Kim, Jungsun."

Olenchak, F R; educational studies, from Ross Graduate Fellowship-Assistantship, \$32,041, "Cho, Hyeree."

Olenchak, F R; educational studies, from Ross Graduate Fellowship-Assistantship, \$32,041, "Kang, Ellice."

Olenchak, F R; educational studies, from Ross Graduate Fellowship-Assistantship, \$32,041, "David, Marie Vivienne."

Olenchak, F R; educational studies, from Purdue University F N Andrews Fellowship, \$32,041, "Lee, Hyeseong."

Olenik, Nicole L; pharmacy practice, from Fred Run Ltd, \$1,600, "Pharmacy Diabetes Education Program."

Panitch, Alyssa; biomedical engineering, from Winifred B. Bilsland Endowment, \$21,229, "Lin, Jenny."

Park, Kinam; biomedical engineering, from Showalter Trust, \$60,000, "Investigation on Polymer Coacervation at the Oil/Water Interface."

Patton, Aaron J; horticulture and landscape architecture, from Gowan Company, \$3,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture and landscape architecture, from BASF Corporation, \$5,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Venetria K; interdisciplinary studies, from Purdue Doctoral Program, \$25,229, "Raymond, Malik."

Patton, Venetria K; interdisciplinary studies, from Purdue Doctoral Program, \$21,229, "Leon, Rocio."

Patton, Venetria K; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$20,443, "Mears, Maria."

Patton, Venetria K; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$20,443, "Molina Ana Maria."

Patton, Venetria K; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$20,448, "Barniskis, Esme."

Patton, Venetria K; interdisciplinary studies, from Winifred B. Bilsland Endowment, \$21,229, "Munt, Christopher."

Patton, Venetria K; interdisciplinary studies, from Lynn Interdisciplinary Graduate Fellowship, \$20,448, "Zunia, Arguello."

Patton, Venetria K; interdisciplinary studies, from Purdue Doctoral Program, \$21,229, "Scettrini, Bethany."

Patton, Venetria K; interdisciplinary studies, from Purdue University F N Andrews Fellowship, \$20,448, "Smith, Ariel."

Pijanowski, Bryan C; forestry and natural resources, from Winifred B. Bilsland Endowment, \$10,724, "Bellisario, Kristen."

Pijanowski, Bryan C; forestry and natural resources, from Winifred B. Bilsland Endowment, \$10,724, "Ghadiri Khanaposhtani, Maryam."

Pijanowski, Bryan C; forestry and natural resources, from Purdue University F N Andrews Fellowship, \$29,526, "Savage, David."

Pijanowski, Bryan C; forestry and natural resources, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, "Jessup, Laura."

Poggie, Jonathan; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Hall, Ian."

Pourpoint, Timothee L; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Veth, Alexandra."

Prabhakar, Sunil K; computer science, from Purdue Doctoral Program, \$7,479, "Johnson, Amber."

Prabhakar, Sunil K; computer science, from Purdue University F N Andrews Fellowship, \$18,523, "Zafarani, Farzad."

Prabhakar, Sunil K; computer science, from Purdue University F N Andrews Fellowship, \$18,523, "Ibrahim, Rania Mohamad."

Prakash, Arun; civil engineering, from Chappelle, \$21,229, "Culp, Spencer."

Purzer, Senay; engineering education, from Winifred B. Bilsland Endowment, \$21,229, "Goldstein, Molly."

Quagrainie, Kwamena K; agricultural economics, from Oregon State University, \$150,000, "Aquaculture Development and the Impact on Food Supply, Nutrition and Health in Ghana and Tanzania – Phase II."

Rahman, Mohammad S; management, from National Science Foundation, \$50,000, "Zeromanipulation: Facilitating Transactions without Revealing."

Rajwa, Bartlomiej P; basic medical sciences, from J M Malone and Son Inc, \$5,517, "Analysis of Triploidy in Ctenopharyngodon Idella Embryos Using Flow Cytometry." (a Discovery Park award – Bindley Bioscience Center)

Ramanathan, Shriram; materials engineering, from Office of Naval Research, \$47,000, "Tunable Electronic Composites with Phase Change Materials and Controlled Disorder."

Ramani, Karthik; mechanical engineering, from George Washington Carver Fellowship, \$22,987, "Glenn, Terrell."

Ramirez, Julio A; Bobet, Antonio and Johnson, David R; civil engineering, industrial engineering, from National Science Foundation, \$900,000, "NHERI Network Coordination Office."

Ramkrishna, Doraiswami; chemical engineering, from Abbvie Inc, \$10,000, "Modeling of Crystal Morphology and Polymorphs."

Ratliff, Timothy L; Center for Cancer Research, from Walther Cancer Institute Foundation Inc, \$100,000, "Center Director Developmental Funds Award."

Rebello, Carina M; Hirsch, Andrew S; Bryan, Lynn A and Haugan, Mark P; physics and astronomy, from National Science Foundation, \$299,846, "ARISE – Argumentation Infused Scale-Up Environment."

Redick, Thomas S; psychological science, from National Science Foundation, \$5,000, "Research Experience for Undergraduates (REU) Supplement: Collaborative Research: Testing Individualized Cognitive Training Interventions Based on a Multifaceted Theory of Working Memory."

Remis to Shih

Remis, Melissa J and **Hall, Elizabeth S**; liberal arts-administration, anthropology, from National Science Foundation, \$27,550, "Doctoral Dissertation Research: Zoonotic Risks at the Human-Primate Interface: Behavior, Nutritional Status, and Immune Function in a Central African Forest Reserve."

Renzulli, Linda A; sociology, from Purdue University F N Andrews Fellowship, \$35,134, "Kaul, Vasundhara."

Renzulli, Linda A; sociology, from Winifred B. Bilsland Endowment, \$19,229, "Kadowaki, Joy."

Renzulli, Linda A; sociology, from Ross Graduate Fellowship-Assistantship, \$33,114, "Hou, Yifei."

Ricker-Gilbert, Jacob E; **Bauchet, Jonathan J** and **Woloshuk, Charles P**; agricultural economics, consumer science, botany and plant pathology, from International Maize & Wheat Improvement Center, \$12,000, "Measuring African Farmers' and Traders' Willingness to Pay for a Low Cost Maize Moisture Meter: Evidence from an Experimental Auction in Kenya."

Rickus, Jenna L; agricultural & biological engineering, from George Washington Carver Fellowship, \$34,307, "Colbert, Ashlee."

Riley, Donna M; engineering education, from Ross Graduate Fellowship-Assistantship, \$30,389, "Rivera, Ralph."

Riley, Donna M; engineering education, from Purdue University F N Andrews Fellowship, \$31,904, "Williams, Taylor."

Riley, Donna M; engineering education, from Purdue Doctoral Program, \$31,904, "Rohde, Jacqueline."

Riley, Donna M; engineering education, from Purdue University F N Andrews Fellowship, \$31,904, "Pantoja, Christina."

Riley, Donna M; engineering education, from Chappelle, \$21,229, "Lyon, Joseph."

Riley, Donna M; engineering education, from Purdue Doctoral Program, \$31,904, "Dunford, Amy."

Rollock, David; psychological science, from Ross Graduate Fellowship-Assistantship, \$18,874, "Neo Wei Siong."

Rollock, David; psychological science, from Purdue Doctoral Program, \$20,799, "Escobedo, Abraham."

Rompf, Tiark; computer science, from National Science Foundation, \$101,113, "Faculty Early Career Development (CAREER): Generative Programming and Dsls for Safe Performance Critical Systems."

Rossmann, Michael G; biological sciences, from National Science Foundation, \$400,055, "X-Ray Determinations of Proteins and Viruses."

Ruan, Xiulin and **Lundstrom, Mark S**; mechanical engineering, electrical & computer engineering, from Defense Advanced Research Projects Agency, \$307,092, "First Principles-Based Predictive Design of Thermoelectric Materials Under Large Temperature Gradients."

Ruiz, Yumary; health & kinesiology, from Ross Graduate Fellowship-Assistantship, \$18,874, "Cavin, Rebecca."

Ruple, Audrey; comparative pathobiology, from Bernese Mountain Dog Club of America, \$19,778, "Bernese Mountain Dog Club of America Health Survey."

Salazar, Kara A; Illinois-Indiana Sea grant college program, from Indiana State Department of Agriculture, \$60,000, "Comprehensive Planning for Economic Development: a Guide for Local Government."

Sangid, Michael D; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Gustafson, Sven."

Santerre, Charles R; nutrition science, from Ross Graduate Fellowship-Assistantship, \$29,526, "Coyne, Mychaela."

Santerre, Charles R; nutrition science, from Purdue Doctoral Program, \$18,528, "Miles, Devin."

Schoenlein, William E and **Durkes, Abigail C**; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$49,036, "Pre-Clinical Device Testing Agreement; Studies: CI-PDE3, CI-SCTR, CI-CGTE, CI-BEAK, CI-BLA2 and POC."

Scott-Moncrieff, Joanna C; veterinary clinical sciences, from Veterinary Vision of Rochester, \$11,284, "Radiology Residency Support."

Seidl, Amanda H; speech, language & hearing sciences, from Purdue University F N Andrews Fellowship, \$21,229, "Simon, Kara."

Seidl, Amanda H; speech, language & hearing sciences, from Ross Graduate Fellowship-Assistantship, \$18,874, "Thomas, Ashley."

Sen, Shreyas; electrical & computer engineering, from National Science Foundation, \$250,000, "SATC: Core: Small: Collaborative: Electron Microscopic (EM) and Power Side-Channel Attack Immunity through High-Efficiency Hardware Obfuscations."

Sepulveda, Maria S; **Hoverman, Jason T** and **Lee, Linda S**; forestry and natural resources, agronomy, from Department of the Army, \$290,000, "Development of Amphibian Poly- and Perfluoroalkyl Substances Toxicity Reference Values for Use in Ecological Risk Assessment at Aqueous Film Forming Foam Sites; Modification 2, Grant 108326."

Sepulveda, Maria S; forestry and natural resources, from Ross Graduate Fellowship-Assistantship, \$29,526, "Allmon, Elizabeth."

Shah, Kavita; Center for Cancer Research, from Harvard Medical School, \$85,095, "Investigating 53bp1 Dephosphorylation as a Critical Determinant of PARP Inhibitor Sensitivity."

Sharma, Pankaj; technology, leadership, & innovation, from Arcelormittal USA, \$15,000, "Inspiring Future Science, Technology, Engineering & Mathematics (STEM) Leaders in Energy Using Drones to Monitor Energy Infrastructure." (a Discovery Park award – Energy Center)

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

Shi, Riye; basic medical sciences, from Winifred B. Bilsland Endowment, \$13,479, "Page, Jessica."

Shih, Tom I; aeronautics & astronautics, from David M. Knox Endowment, \$21,229, "Rink, Kimberly."

Shih, Tom I; aeronautics & astronautics, from Purdue Doctoral Program, \$31,904, "Ramirez, Miguel."

Shih, Tom I; aeronautics & astronautics, from Chappelle, \$21,229, "Goggin, McClain."

Shih, Tom I; aeronautics & astronautics, from Purdue University F N Andrews Fellowship, \$19,189, "Clarke, Shanelle."

Shih, Tom I; aeronautics & astronautics, from Purdue Doctoral Program, \$31,904, "Crowley Farenga, Julia."

Simpson to Weinstein

Simpson, Garth J and **Bouman, Charles A**; chemistry, electrical & computer engineering, from National Science Foundation, \$438,000, "Grant Opportunities for Academic Liaison with Industry (GOALI): Sensitively Quantifying Trace Crystallinity and Crystal Form within Pharmaceutical Formulations."

Sivasankar, Preeti M; speech, language & hearing sciences, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, "Duan, Chenwei."

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

Spafford, Eugene H; computer science, from Sandia National Laboratories, \$30,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

Spencer, David A; aeronautics & astronautics, from Ross Graduate Fellowship-Assistantship, \$30,389, "Tamrazian, Sabastian."

Staiger, Christopher J; botany and plant pathology, from U.S. Department of Energy, \$150,000, "Regulation of Actin Filament Ends: the Role of Capping Protein in Plant Growth and Lipid Signaling."

Strimel, Greg J; technology, leadership, & innovation, from Venturewell, \$5,000, "Design & Innovation Polytechnic Curriculum."

Stroshine, Richard L; agricultural & biological engineering, from Weaver Popcorn Company, \$950, "Stroshine Multi-Sponsor Gift."

Sullivan, John P; aeronautics & astronautics, from Brigham Young University, \$3,104, "Development and Delivery of Aerospace Capstone Project Q4 2013-Q4 2016."

Sundaram, Neera J; mechanical engineering, from Office of Naval Research, \$25,000, "Reimagining Thermal Management Systems through Optimal Plant and Control Co-Design."

Sundaram, Neera J; mechanical engineering, from Office of Naval Research, \$72,488, "Reimagining Thermal Management Systems through Optimal Plant and Control Co-Design."

Sutherland, John W; environmental & ecological engineering, from Sanji Industries, LLC, \$15,000, "Indianas Next Generation Manufacturing Competitiveness Center Focus Area Consortium."

Sutherland, John W; environmental & ecological engineering, from Ryobi Die Casting (USA) Inc, \$15,000, "Indianas Next Generation Manufacturing Competitiveness Center Focus Area Consortium."

Taleyarkhan, Rusi P; nuclear engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Hemesath, Mitchell."

Taleyarkhan, Rusi P; nuclear engineering, from Sagamore/Adams Laboratories LLC, \$4,888, "TMFD Sensor Testing Per Sponsor Specifications."

Tao, Weiguo A; biochemistry, from University of Pennsylvania, \$150,000, "Identification of CDKL5 Direct Substrates Based on Kinase Assay Linked Phosphoproteomics."

Tesini Roseguini, Bruno and **Goergen, Craig J**; health & kinesiology, biomedical engineering, from Showalter Trust, \$75,000, "Effects of Heat Treatment on Collateral Growth, Skeletal Muscle Capillarization and Fatigue Resistance in a Pre-clinical Model of Peripheral Arterial Disease."

Tong, Yunjie; biomedical engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Shen, Xin."

Topp, Elizabeth M; industrial and physical pharmacy, from National Institutes of Health, \$30,000, "Protein Aggregation in Amorphous Solids."

Towns, Marcy H and **Harwood, Cynthia A**; chemistry, from National Science Foundation, \$290,952, "Improving Undergraduate Chemistry Students Hands-on Laboratory Skills through Video-Based Assessment."

Trader, Darci J; Center for Cancer Research, from Purdue University, \$10,000, "Development of RPN-6 Inhibitors, the Hinge of the Proteasome, as a New Anti-Cancer Target."

Trumble, Kevin P and **Krane, Matthew J**; materials engineering, from Rolls-Royce Corporation, \$120,000, "Single Crystal Casting Development."

Turco, Ronald F; agronomy, from The Agribusiness Council of Indiana, \$1,000, "St Mary Watershed Voluntary Support (Cost Share for 16099346)."

Turco, Ronald F; agronomy, from Indiana Farm Bureau, Inc., \$10,000, "St Mary Watershed Voluntary Support (Cost Share for 16099346)."

Turco, Ronald F; agronomy, from Indiana Soybean Alliance, \$15,000, "St Mary Watershed Voluntary Support (Cost Share for 16099346)."

Turco, Ronald F; agronomy, from Indiana Corn Marketing Council, \$15,000, "St Mary Watershed Voluntary Support (Cost Share for 16099346)."

Turco, Ronald F; agronomy, from Indiana Dairy Producers, \$500, "St Mary Watershed Voluntary Support (Cost Share for 16099346)."

Tyler, James M and **Adams, Katherine E**; psychological science, from Kinley Trust, \$19,553, "Gratitude: Weakening the Link Between Physical Appearance and Self-Worth."

Ventresca, Mario; industrial engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Kawano Mori, Larissa."

Wachs, Juan P; industrial engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Carvajal, Juan."

Wang, Haiyan; materials engineering, from National Science Foundation, \$65,000, "From Atomic Scale Strain Probing to Smart 3-D Interface Design."

Wang, Haiyan; materials engineering, from Office of Naval Research, \$302,247, "Wang – Explore the Fundamentals for Field-Enhanced Mass Transport Phenomena in Ceramics."

Wang, Haiyan; materials engineering, from Office of Naval Research, \$45,000, "Wang – Strain Driven Novel Layered Oxide Thin Films with Unique Functionalities."

Watkins, Adam E; honors college, from Indiana Campus Compact, \$2,250, "Student Learning through Service and Creative Engagement."

Weibel, Justin A; mechanical engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Lyons, Sara."

Weinstein, Dana and **Roy, Kaushik**; electrical & computer engineering, from HRL Laboratories, LLC, \$359,459, "The Unconventional Processing of Signals for Intelligent Data Exploitation, Amendment 10; Grant 106611)."

Wilbur to Zollner

Wilbur, Ronnie B; speech, language & hearing sciences, from Ohio State University, \$2,712, “Computational Methods for the Study of American Sign Language Nonmanuals Using Very Large Databases; Amendment 2, Grant 108306.”

Williams, Rod N; forestry and natural resources, from Taylor University, \$50, “Voluntary Support.”

Wirth, Mary J; chemistry, from National Institutes of Health, \$274,457, “Sub-1um Particles for NanoLC-MS of Intact Proteins.”

Won, You-Yeon; chemical engineering, from Winifred B. Bilsland Endowment, \$21,229, “Kim, Hyun Chang.”

Wu, Benxin; mechanical engineering, from National Science Foundation, \$299,739, “Fundamental Research on a Novel Double-Pulse Laser Micro Sintering Technology.”

Xin, Yan Ping; educational studies, from National Science Foundation, \$50,000, “Conceptual Model-Based Math Intelligent Tutors (Commit).”

Yang, Danzhou; Center for Cancer Research, from Purdue University, \$10,000, “Targeting the Nucleolin/Myc G-Quadruplex Complex for C-Myc Modulation.”

Yao, Bin; mechanical engineering, from Hangzhou Kangchuang Touzi Co, Ltd, \$100,000, “Modeling and Control of a Linear Motor Driven Modular Conveyor System.”

Ye, Peide; Xu, Xianfan and Zemlyanov, Dmitry Y; electrical & computer engineering, mechanical engineering, from National Science Foundation, \$20,000, “Efri 2-Dare: Phosphorene, an Unexplored 2d High-Mobility Semiconductor.” (a Discovery Park award – Birck Nanotechnology Center)

Yen, Jui-Hung; medical education, from Indiana University, \$17,620, “Dr. Jimmy Yen Research Enhancement Grant.”

Yih, Yuehwern; industrial engineering, from Catholic Relief Services, \$5,000, “Humanitarian Response and Supply Chain Management.”

Yih, Yuehwern; industrial engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Kerh, Rhoann.”

Zavattieri, Pablo D; civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Garnica, Alvaro.”

Zavattieri, Pablo D; civil engineering, from National Science Foundation, \$40,000, “Collaborative Research: 3-D Printing of Civil Infrastructure Materials with Controlled Microstructural Architectures.”

Zentner, Michael G; ITaP Research Computing, from University of California – San Diego, \$688,612, “S2i2: Impl: the Science Gateways Community Institute (Sgci) for the Democratization and Acceleration of Science; Modification 1, Grant 108680.”

Zhang, Hao; statistics, from Purdue University F N Andrews Fellowship, \$18,874, “Tao, Xinlin.”

Zhang, Hao; statistics, from Purdue Doctoral Program, \$22,729, “Cardona, Daniel.”

Zhang, Hao; statistics, from Winifred B. Bilsland Endowment, \$21,229, “Qiu, Yixuan.”

Zhang, Hao; statistics, from Ross Graduate Fellowship-Assistantship, \$18,874, “Wang, Chi-Hua.”

Zhang, Hao; statistics, from Ross Graduate Fellowship-Assistantship, \$18,874, “Ramprasad, Pratik.”

Zhang, Hao; statistics, from Purdue University F N Andrews Fellowship, \$18,528, “Sullivan, Kirsan.”

Zhang, Hao; statistics, from Purdue Doctoral Program, \$18,874, “Kamran, Usama.”

Zhang, Xiangxiang; mathematics, from National Science Foundation, \$67,978, “Robust and Efficient High Order Methods for Time Dependent Problems.”

Zhang, Yiying; electrical & computer engineering, from National Science Foundation, \$404,572, “Computer Systems Research (CSR): Small: Distributed Shared Persistent Memory.”

Zhang, Zhong-Yin; medicinal chemistry and molecular pharmacology, from Lynn Interdisciplinary Graduate Fellowship, \$30,736, “Que, Zhefu.”

Zhang, Zhong-Yin; medicinal chemistry and molecular pharmacology, from Purdue University F N Andrews Fellowship, \$29,176, “Nielsen, Jeffery.”

Zhao, Kejie; mechanical engineering, from National Science Foundation, \$326,405, “Bridging Mechanics and Electrochemistry: Theories and Experiments on Energy Materials.”

Zhou, Chenn Q and Silaen, Armin K; Center for Innovation thru Visualization & Simulation, from Citgo Petroleum Corporation, \$27,885, “Co Boiler Checker Wall Blockage Response Study.”

Zhou, Chenn Q; mechanical and civil engineering, from Hatch Associates Consultants, Inc, \$50,000, “Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership.”

Zhou, Chenn Q; Chen, Bin and Silaen, Armin K; Center for Innovation thru Visualization & Simulation, electrical and computer engineering, from U.S. Steel Corporation, \$63,324, “Data Analytics Hot Stop Mill Quality Control.”

Zhou, Chenn Q and Silaen, Armin K; Center for Innovation thru Visualization & Simulation, from Daily Thermetrics, \$8,294, “Heat Tube Skin Thermocouple Heat Shield Design.”

Zollner, Patrick A; forestry and natural resources, from Purdue University F N Andrews Fellowship, \$30,386, “Tinklenberg, Jessica.” ■

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