

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

October 2016

Acharya to Bingham

Acharya, Lalatendu and **Garimella, Suresh V**; consumer science & retail, mechanical engineering, from Purdue University, \$29,130, "FY16_17 Purdue Research Foundation (PRF) Research Grants."

Addison, Megan D; field extension educators, from Hancock County Community Foundation, \$2,500, "Kindergarten 101."

Adeola, Olayiwola; animal sciences, from Maple Leaf Farms Inc., \$16,250, "Maple Leaf Farms."

Adeola, Olayiwola; animal sciences, from DSM Nutritional Products, Inc., \$39,500, "Effect of Novel Carbohydrase Enzymes in Corn/Soy-Based Broiler Diets."

Alam, Muhammad A; electrical & computer engineering, from Texas Instruments, Inc., \$60,000, "Texas Instruments Gift."

Alexeenko, Alina and **Sriramesh, Krishnamurthy**; aeronautical & astronautical engineering, communication, from University of Illinois at Champaign-Urbana, \$35,000, "Student Aerothermal Spectrometer Satellite of Illinois and Indiana (SASSI2)."

Anderson, Joseph M; agronomy, from Rubisco Seeds LLC, \$3,250, "Corn Research."

Applegate, Bruce M; food science, from Millisecond Technologies, Corp, \$2,000, "Food Microbiology Research."

Arling, Gregory W; nursing, from Indiana University, \$15,939, "Optimistic (Optimizing Patient Transfers, Impacting Medical Quality, & Improving Symptoms: Transforming Institutional Care) Resource Center Planning Grant."

Bagchi, Saurabh; electrical & computer engineering, from AT&T Foundation, \$20,000, "ATT – Bagchi."

Bane, Sally P; aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$116,382, "Plasma-Enhanced Flames at Elevated Pressure."

Bay, Jennifer L; English, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Bayley, William G; chemistry, from Herron High School, \$600, "Instrumentation Van Project."

Bayley, William G; chemistry, from Lake Central School Corporation, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from North Putnam Community School Corporation, \$600, "Instrumentation Van Project."

Bayley, William G; chemistry, from Crawfordsville High School, \$300, "Instrumentation Van Project."

Bayley, William G; chemistry, from Noblesville High School, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from North Montgomery Community School Corp., \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Logansport Community School Corp, \$600, "Instrumentation Van Project."

Bayley, William G; chemistry, from Warren Co. Metropolitan School District, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Crown Point Comm School Corp, \$1,000, "Instrumentation Van Project."

Beaudoin, Stephen P; chemical engineering, from Northeastern University, \$75,000, "Mechanics of Compounded Explosives for Enhanced Checkpoint Detection."

Beaulieu, Lionel J; Office of Engagement, from Valpo Chamber, \$2,500, "Northwest Regional CD Voluntary Support."

Beckman, Joseph W; computer & information technology, from Purdue University, \$29,130, "FY16_17 Purdue Research Foundation (PRF) Research Grant."

Benes, Bedrich; computer graphics technology, from Mitsubishi Electronics Corp., \$5,000, "Mitsubishi Electric Research Lab."

Bennett, Gary W; entomology, from Purdue Doctoral Program, \$28,963, "Rodrigues, Aaron."

Bertino, Elisa; computer science, from Electronics and Telecommunications Research Institute, \$44,740, "Study on Key Hiding and Software Integrity Verification for Unmanned Vehicle."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$8,000, "2014 National Bentgrass (Putting Green) Test."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$5,000, "2014 National Fineleaf Fescue Test."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$5,000, "2015 National Low Input Cool-Season Test."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$6,000, "2014 National Bentgrass (Fairway/Tee) Test."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$5,000, "2015 National Low Input Cool-Season Test."

Bigelow, Cale A; horticulture & landscape architecture, from National Turfgrass Evaluation Program, \$11,000, "2013 National Bermudagrass Test."

Bingham, Clifton W; computer science, from Bureau of Census, \$151,657, "Tools to Support Anonymization."

Blackwood to Farkas

Blackwood, Evelyn; anthropology, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Bolton, J S; mechanical engineering, from Beijing Ancsonic Technology Co. Ltd, \$27, "China Voluntary Support."

Brady, Colleen M; youth development & agricultural education, from National Institute of Food & Agriculture, \$43,253, "An Integrated Approach to Agricultural Literacy and Careers in Agriculture through Agriculture in the Classroom."

Braile, Lawrence W; earth & atmospheric sciences, from American Geophysical Union, \$10,000, "AGU SAGE Support Gift."

Bullock, Darcy M; civil engineering, from Kittelson & Associates, \$219,602, "NCHRP 03-122 Performance Based Management of Traffic Signals."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$27,795, "2017 Transportation Research Board (TRB) Annual Meeting Activities."

Buzon, Michele R; anthropology, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Cai, Hubo; civil engineering, from Purdue University F N Andrews Fellowship, \$31,675, "Cai, Jiannan."

Cai, Liping A; hospitality & tourism, from South China University of Technology, \$20,000, "China Research Programs."

Cakmak, Mukerrem; mechanical engineering, from Imagine Research and Technology Inc, \$78,000, "Scale-Up Production of UV-Curable Contact Stabilization Coating Material for Electrical Contact Surfaces." (a Discovery Park award — Birck Nanotechnology Center)

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

Caldwell, Barrett S; industrial engineering, from St. Joseph College, \$1,000, "Indiana Space Grant Consortium (INSGC) Affiliate Dues."

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

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

Calve, Sarah; biomedical engineering, from Nexxt Spine LLC, \$6,507, "Testing the Compatibility of New Metal-Based Spinal Implants."

Campanella, Osvaldo H; agricultural & biological engineering, from Mizkan Americas Inc, \$900, "Multi-Sponsored Gift Account."

Campbell, Wayne W; foods & nutrition, from American Egg Board, \$20,000, "Acute Effect of an Egg-Based High Protein Meal on the Hypertensive Response to Exercise."

Catlin, Ann C; RCAC, from International Thymic Malignancy Group, \$55,440, "2016-2017 Projects for Interactive International Thymic Malignancy Interest Group (ITMIG) International Database Repository and Outlier Research."

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

Christian, John A; comparative pathobiology, from Cliffs Natural Resources, \$25,000, "Cytology Resource Center."

Christmon, Kenneth C; diversity and multicultural affairs — Fort Wayne campus, from Indiana Commission for Higher Education, \$2,000, "2016-2017 Scholarcorps AmeriCorps Program."

Collicott, Steven H; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$161,685, "Zero-G Condensation Droplets and Flow in Phase-Change Loops."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$140,000, "S-Brite - Truss Bridge Strength and Deterioration Study."

Cui, Meng; electrical & computer engineering, from National Institutes of Health, \$102,029, "Super-Resolution Deep Tissue Imaging of Dendritic Spines."

Dasgupta, Anirban; statistics, from Elsevier Ltd, \$69,887, "Executive Editor Agreement for Anirban Dasgupta."

Deering, Amanda J; food science, from Clabber-Girl, \$1,400, "Multi-Sponsored Gift Account."

Dooley, Frank J and Drake, Brent M; Office of the Provost, Office of Institutional Research, **Assessment and Effectiveness**, from Georgia State University, \$209,998, "MAAPS: Measuring Analytics as Predictors of Success, Amendment 1; (Grant 108168)."

Dydak, Ulrike; health sciences, from Yale University, \$113,070, "Indiana Vivo Quantification of Cerebellar GABA and NAA in Essential Tremor; Amendment 1; Grant 108197."

Dykhuisen, Emily C; medicinal chemistry & molecular pharmacology, from the V Foundation for Cancer Research, \$100,000, "Chromatin Targeting by the Bromodomains of PBRM1, a Tumor Suppressor Subunit of the P-BAF Chromatin Remodeling Complex."

Elliott, Julie L; earth & atmospheric sciences, from Columbia University, \$72,877, "Tectonic and Magmatic Processes During Early-Stage Rifting: an Integrated Study of Northern Lake Malawi, Africa."

Farkas, Brian E; food science, from D-B Body Shop, \$150, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Panatea LLC, \$4,500, "Pilot Plant Multi-Sponsored Gift."

Farkas, Brian E; food science, from Treasurer Properties, \$60, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Crazy Horse Hops LLC, \$60, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Treasurer Properties, \$60, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Koh Knox Inc, \$100, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Koh Knox Inc, \$35, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from The Pine Farm Hops, LLC, \$30, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Hoosier Hops Farm LLC, \$90, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Geswein Farms, \$90, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from Paul F. Williams, Jr., \$60, "Multi-Sponsored Gift Fermentation."

Farkas, Brian E; food science, from La Porte Vineyard, \$30, "Multi-Sponsored Gift Fermentation."

Feikes to Hill

Feikes, David J; Warren, Aaron R and Pratt, David M; education — Calumet campus, physics — North Central campus, from Indiana Department of Education, \$97,121, “Conceptual Algebra Readiness with Engineering and Science (CARES).”

Fernandez-Juricic, Esteban; biological sciences, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Field, William E; agricultural & biological engineering, from National Institute of Food & Agriculture, \$532,293, “National Agri-ability Project, 2016-2020.”

Field, William E; agricultural & biological engineering, from Life Essentials, LLC, \$10,846, “Breaking New Ground.”

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

Fisher, Timothy; mechanical engineering, from Lockheed Martin Corp., \$100,000, “Integrated Thermal Management of Aerospace Vehicles Consortium Membership.”

Foster, Kenneth A; agricultural economics, from Colciencias, \$16,651, “Beca-Colciencias – Fulbright Carlos Fontanilla Diaz.”

Foster, Ricky E; entomology, from Andermatt Biocontrol AG, \$3,000, “Evaluation of Helicovex for Control of Corn Earworms on Sweet Corn.”

Garrison, James L; aeronautical & astronautical engineering, from University of Michigan, \$10,795, “Cyclone Global Navigation Satellite System (CYGNSS); Amendment 8; (Grant 106499).”

Gavin, Timothy P; Abbott, Angela R and Burgess, Wilella D; health & kinesiology, health and human sciences, from PHS-CDC Centers for Disease Control, \$578,449, “Reducing Obesity in Indiana through Community Involvement to Increase Prevention.”

Giannios, Dimitrios; physics, from Columbia University, \$10,245, “First-Principle Modeling of the Crab GEV Flares.”

Gleich, David F; computer science, from Stanford University, \$89,704, “Miner: Multimodal Networks: a General Representational Language Applied to Bio-Medical Hypothesis Generation and Validation; Amendment 5; (Grant 107796).”

Godwin, Allison F; engineering education, from National Science Foundation, \$59,507, “Collaborative Research: Preparing Engineers to Address Climate Change and its Implications: Modeling Impact of College Experiences on Students Beliefs and Agency.”

Goldwasser, Dan; computer science, from Northeastern University, \$75,000, “Improving Protocol Vulnerability Discovery via Semantic Interpretation of Textual Specifications.”

Goodsell, Johnathan E and Yu, Wenbin; Composites Manufacturing & Simulations Center, from Spirit Aerosystems Inc, \$80,395, “Micromechanical Modeling of Porosity in Composites.”

Goodsell, Johnathan E and Bogdanor, Michael J; aeronautical & astronautical engineering, materials engineering, from Louisiana Center for Manufacturing Sciences, \$25,000, “Virtual Allowables for Composite Liquid Hydrogen Tanks.”

Goosen, Robert K; Pandey, Ashutosh and Shih, Tom I; Technical Assistance Program, aeronautical & astronautical engineering, from Dekker Vacuum Technologies, Inc., \$23,750, “Dekker Vacuum 2nd Year Research.”

Gounder, Rajamani P; chemical engineering, from BASF Corporation, \$125,000, “Synthesis and Stability of Zeolites.”

Granger, Darryl E; earth & atmospheric sciences, from Sierra Pacific Industries, \$40,290, “Darryl Granger Discretionary Funds.”

Grant, Richard H; agronomy, from MACTECH Engineering and Consulting, Inc., \$6,001, “Dry Deposition Monitoring at Vincennes, Indiana.”

Guan, Wenjing; horticulture & landscape architecture, from United Genetics Seed Company, \$600, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture & landscape architecture, from Holganix, LLC, \$1,500, “Chris Gunter General Research Activities.”

Hacker, Thomas J; computer & information technology, from Rochester Institute of Technology, \$11,233, “Cyberbridges 2016 Workshop.”

Hamilton, Roy L; Education Opportunities Program – Calumet campus, from U.S. Department of Education, \$285,079, “Ronald E. McNair Post-Baccalaureate Achievement Program, 2016-17.”

Harriger, Alka R; Harriger, Bradley C; Li, Weiling and Parker, Loran C; computer & information technology, engineering technology, education-administration, from National Science Foundation, \$2,499,739, “Curriculum and Assessment Design to Study the Development of Motivation and Computational Thinking for Middle School Students Across Three Learning Contexts.”

Haviarova, Eva; forestry & natural resources, from Agricultural Marketing Service, \$94,510, “Market Opportunities for USA Hardwoods in Emerging Economies of Eastern Europe.”

Heber, Albert J; agricultural & biological engineering, from Atmosphere Global LLC, \$2,850, “Agricultural Engineering.”

Heeg, Marlene O; pharmacy – administration, from Novartis Pharmaceuticals Corporation, \$150,000, “Therapeutic Decision Making with Consideration of Patient Preferences and Risk-Tolerance.”

Heeg, Marlene O; pharmacy – administration, from Prometheus Laboratories Inc, \$20,000, “Sub-Optimal Outcomes Create Substantial Challenges: Moving the Mark in IBD Management.”

Heeg, Marlene O; pharmacy – administration, from Merck & Company Inc., \$200,000, “2016 – 2017 Gala HCV Resistance Meeting Series.”

Heeg, Marlene O; pharmacy – administration, from Genzyme Corporation, \$62,792, “Applying Evidence-Based Management Strategies for Patients with MS: An Educational Data Continuum.”

Heeg, Marlene O; pharmacy – administration, from Takeda Pharmaceutical International Inc US Region, \$198,180, “Increasing Patient Access to Biologic Therapy in IBD: Practical Strategies to Minimize the Burden of Prior Authorization and Improve the Provider-Payer Relationship (150204275).”

Heinz, Michael G; speech, language & hearing sciences, from Association for Research in Otolaryngology, \$1,000, “Student Exposure to Outside Speakers in Seminars in Hearing Research at Purdue University.”

Hill, Catherine A; entomology, from Showalter Trust, \$5,000, “2013 Showalter Awards.”

Hockerman to Liceaga

Hockerman, Gregory H; medicinal chemistry & molecular pharmacology, from Showalter Trust, \$5,000, “2015 Showalter Scholar Awards.”

Hook, Tomas O; Doucette, Jarrod S; Miller, Brian K and Pijanowski, Bryan C; forestry & natural resources, from University of Illinois, \$52,473, “Minibus 2016-2018.”

Howell, Kathleen; aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc, \$22,436, “National Aeronautics and Space Administration (NASA) Guidance, Navigation, and Control Technical Discipline Team (TDT).”

Hutzel, William J; engineering technology, from America Society of Heating, Refrigeration/Air Conditioning Engineering Inc, \$5,000, “American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE).”

Hwang, Inseok; aeronautical & astronautical engineering, from Mosaic ATM Inc, \$80,000, “Anomaly Detection in the National Airspace System.”

Irazoqui, Pedro; biomedical engineering, from Showalter Trust, \$5,000, “2013 Showalter Awards.”

Jiang, Qing; foods & nutrition, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Johnson, Carla J; education – administration, from Battelle Memorial Institute, \$61,755, “Battelle – Army Educational Outreach Program Cooperative Agreement, Modification 3; Grant 108058.”

Johnson, William G; botany & plant pathology, from FMC Corporation, \$5,500, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Bayer Crop-science, \$13,000, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from United Soybean Board, \$289,691, “USB Herbicide Resistant Weeds and Crops – Year 2/3.”

Johnson, William G; botany & plant pathology, from Nufarm Americas Inc., \$3,500, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Dow Agro Sciences, \$5,500, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Bayer Crop-science, \$5,000, “Weed Biology and Management.”

Johnson, William G; botany & plant pathology, from Bayer Crop-science, \$36,500, “Weed Science Research Voluntary Support.”

Johnson, William G; botany & plant pathology, from Land O’ Lakes Inc., \$4,000, “Weed Science Research Voluntary Support.”

Jordan, Mark A; biology – Fort Wayne campus, from Michigan Society of Herpetologists, \$500, “Utilizing Environmental DNA (eDNA) for the Detection of the Eastern Massasauga (*Sistrurus Catenatus*).”

Kihara, Daisuke; biological sciences, from Showalter Trust, \$5,000, “2013 Showalter Awards.”

Kildishev, Alexander V; electrical & computer engineering, from National Institute for Materials Science, \$9,000, “Spontaneous Emission of R6G: Experimentally Fitted Numerical Modeling.”

Kim, Yuan H; animal sciences, from Konkuk University, \$10,000, “Novel Aging Method to Improve Quality and Value of Underutilized Meat Products.”

Kirkpatrick, Jane M and Aaltonen, Pamela M; nursing, from Health Resources & Services Administration, \$945,574, “Health infrastructure investment program – Family Health Clinic of Monon.”

Kirkpatrick, Jane M; nursing, from Health Resources & Services Administration, \$171,260, “Health Center Cluster.”

Kirkpatrick, Jane M; nursing, from Health Resources & Services Administration, \$47,841, “Health Center Cluster.”

Klimeck, Gerhard; Madhavan, Krishna; McLennan, Michael J; Zentner, Lynn K and Zentner, Michael G; electrical & computer engineering, engineering education, Research Computing (RCAC), from National Science Foundation, \$1,980,000, “Network for Computational Nanotechnology – Cyber Platform.” (a Discovery Park award – Network for Computational Nanotechnology)

Krupke, Christian H; entomology, from Monsanto Company, \$1,860, “Addition of Precept to University Corn Rootworm Soil Insecticide Efficacy Trials.”

Krupke, Christian H; entomology, from United Phosphorus Inc, \$5,600, “Krupke – Entomology – Research.”

Kuang, Shihuan; animal sciences, from Showalter Trust, \$5,000, “2015 Showalter Scholar Awards.”

Landry, Steven J; industrial engineering, from National Aeronautics and Space Administration, \$509,935, “A System Study of Safe, High-Capacity Architectures for Future Airspace Operations.”

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

Lee, Chi Hwan; biomedical engineering, from Asian Office of Aerospace Research & Development, \$107,660, “Integration of Three-Dimensional Silicon Microtip Arrays Onto Flexible Substrates.”

Lee, Chi Hwan; biomedical engineering, from The Jackson Laboratory, \$50,000, “Development and Validation of Miniaturized Wearable Skin-Like Sensors for Mouse Models.”

Lee, Hyowon; biomedical engineering, from Samsung Electronics Co., Ltd, \$100,000, “Implantable Neuromonitoring Interface for Personalized Medicine.”

Lee, Seokcheon; industrial engineering, from Kyonggi University, \$10,050, “Development of CCTV Deployment Algorithm for Structure Monitoring.”

Leverage, Paula E; foreign language & literature, from Purdue University, \$7,000, “CLA Research Incentive Grants.”

Li, Ninghui and Proctor, Robert W; computer science, psychological science, from North Carolina State University, \$10,000, “North Carolina State University Science of Security Labet; Amendment 6: (Grant 107122).”

Li, Ninghui; computer science, from National Science Foundation, \$46,820, “TWC SBE: Medium: Collaborative: User-Centric Risk Communication and Control on Mobile Devices.”

Liceaga, Andrea M; food science, from Talking Rain Beverage Company, \$1,000, “Multi-Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Bay Valley Foods LLC, \$7,000, “Multi-Sponsored Gift – Sensory.”

Liceaga, Andrea M; food science, from Dreampak, \$1,000, “Multi-Sponsored Gift – Sensory.”

Liceaga to Niyogi

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$3,000, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$2,000, "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 Bay Valley Foods LLC, \$1,000, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Ramsey Popcorn Co Inc, \$1,500, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$3,000, "Multi-Sponsored Gift – Sensory."

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

Liceaga, Andrea M; food science, from Bay Valley Foods LLC, \$3,000, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Impossible Foods Inc., \$2,550, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$3,000, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$3,000, "Multi-Sponsored Gift – Sensory."

Liceaga, Andrea M; food science, from Bay Valley Foods LLC, \$2,000, "Multi-Sponsored Gift – Sensory."

Liu, Wanqing; Jones-Hall, Yava L and Zhang, Min; medicinal chemistry & molecular pharmacology, comparative pathobiology, statistics, from National Institutes of Health, \$405,048, "Fatty Acid Desaturase 1 (FADS1) Variants and Non-Alcoholic Fatty Liver Disease."

Loew, Tamara F; recreation & wellness, from Indiana Collegiate Action Network, \$3,015, "Alcohol on Campus: Past, Present, Future."

Lu, Na; civil engineering, from National Science Foundation, \$50,000, "High Temperature Thermometric Materials for Power Generation."

Lu, Yung-Hsiang; electrical & computer engineering, from National Science Foundation, \$27,000, "SI2-SSE:Analyze Visual Data from Worldwide Network Cameras - Supplement."

Lukasik, Christopher J; English, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Lundstrom, Mark S; Alam, Muhammad A and Roy, Kaushik; electrical & computer engineering, from National Science Foundation, \$700,000, "Network for Computational Nanotechnology – Needs Node." (a Discovery Park award – Network for Computational Nanotechnology)

Lundstrom, Mark S; Alam, Muhammad A and Roy, Kaushik; electrical & computer engineering, from National Science Foundation, \$300,000, "Network for Computational Nanotechnology – Needs Node; Supplement." (a Discovery Park award – Network for Computational Nanotechnology)

Luo, Zhao-Qing; biological sciences, from Cornell University, \$33,633, "Structural and Functional Characterization of a Novel Family of Ubiquitin E3 Ligases from Legionella Pneumophila."

Ma, Zhao; McMillan, Sara K; Engel, Bernard A and Prokopy, Linda S; forestry & natural resources, agricultural & biological engineering, from University of Illinois at Champaign-Urbana, \$99,420, "Combining Societal Acceptance and Biophysical Drivers of Conservation Practices to Improve Water Quality in Multi-Use Landscapes."

MacDermid Wadsworth, Shelley; child development & family studies, from Ohio State University, \$1,400, "SBHP Evaluation."

Marconnet, Amy M and Reid, Tahira; mechanical engineering, from Procter & Gamble Company, \$33,500, "Thermal Science Studies to Impact the Hair and Beauty Industry – Phase 2."

Matson, Eric T; computer & information technology, from Argonne National Laboratory, \$55,347, "Development of Sensor Arrays for a Waggle Stack."

Mattes, Richard D; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Hunter, Stephanie."

McDaniel, Rebecca S; civil engineering, from Indiana Department of Transportation, \$43,986, "Patching Composite Pavements."

McKee, Renee K; agriculture - administration, from Rural King Distributing, \$10,699, "4-H Youth Programs."

McKee, Renee K; agriculture - administration, from Multi-Sponsored Industrials, \$22, "4-H Youth Programs."

McKee, Renee K; agriculture - administration, from Multi-Sponsored Industrials, \$8, "4-H Youth Programs."

McKee, Renee K; cooperative extension service expenses, from National Institute of Food & Agriculture, \$700,000, "Military Teen Adventure Camp Program."

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."

Mei, Jianguo; chemistry, from Furcifer Inc, \$99,883, "Electroactive Polymers for Electrochromic Applications; Amendment 1."

Menekse, Muhsin; engineering education, from Purdue University, \$10,400, "16-17 Purdue Research Foundation (PRF) SFG."

Michelusi, Nicolo; Krogmeier, James V and Love, David J; electrical & computer engineering, from National Science Foundation, \$941,197, "EARS: Collaborative Research: Real-Time Control of Dense, Mobile, Millimeter Wave Networks Using a Programmable Architecture."

Moulton, Sabra R; airport operations, from Federal Aviation Administration, \$0, "Strengthen and Rehabilitate Runway 10-28:Base Bid (Runway 10 End) Only (Federal)."

Neumeister, Norbert; physics, from Princeton University, \$35,000, "U.S. Compact Muon Solenoid (CMS) Operations at the Large Hadron Collider (LHC)."

Nie, Linda H; health sciences, from Boston University, \$76,415, "Validation of Portable Xrf for in Vivo Measurement of Heavy Metal Exposure."

Niyogi, Devdutta S; Biehle, Donald J and Scheeringa, Kenneth L; agronomy, Southeast-Purdue Agricultural Center, from Mary S. Rice Farm Estate, \$2,500, "Maintenance and Improvement of Purdue Agricultural Centers Weather Station Network – 2016."

Nof to Ryu

Nof, Shimon Y; industrial engineering, from Agricultural Research Organization, \$104,000, "Development of a Robotic Inspection System for Early Identification and Locating of Biotic and Abiotic Stresses in Greenhouse Crops."

Oakes, William C; engineering education, from Multi-Sponsored Industrials, \$60,000, "Engineering Projects in Community Service (EPICS)."

Oliver, Haley F; food science, from Sealed Air Corporation, \$43,167, "Disinfectant Performance Curves for Antibiotic Resistant and Multi-Drug Resistant Pathogens."

Parashar, Neeti; chemistry and physics – Calumet campus, from University of Nebraska-Lincoln, \$42,218, "U.S. Compact Muon Solenoid (CMS) Phase-1 Upgrades; Amendment No. 4; Grant 107160."

Patrick, Helen and **Mantzicopoulos-James, Panayota Y;** educational studies, from Institute of Education Sciences, \$461,651, "Measuring Effective Teaching Across Core Academic Content Areas in Kindergarten."

Peroulis, Dimitrios; electrical & computer engineering, from Landauer Inc., \$37,500, "Center for Electronic Defense Systems (CEDs) Consortium."

Peterson, John R; physics, from Association of University for Research in Astronomy, \$140,000, "PhoSim Large Synoptic Survey Telescope (LSST) Characteristics Development & Large-Scale Image Production."

Pinal, Rodolfo; industrial & physical pharmacy, from Hahn Loeser & Parks LLP, \$4,600, "Center for Pharmaceutical Processing Research Consortium."

Pipes, R Byron; materials engineering, from MSC Software, \$15,000, "Purdue cvfHUB Membership Agreement - MSC Software Belgium SA (aka eXstream)."

Pipes, R Byron; materials engineering, from Purdue Research Foundation, \$0, "Institute for Advanced Composites Manufacturing Innovation (IACMI) Purdue Research Foundation (PRF) Internal Match Funds."

Pol, Vilas G; chemical engineering, from Superior Graphite, \$15,000, "Tribotesting and Analysis of Three Superior Graphite Samples."

Pourpoint, Timothee L and **Heister, Stephen D;** aeronautical & astronautical engineering, from Lynntech Inc, \$32,000, "Study of Reactivity of Aqueous Solutions of Sodium Borohydride and Hydrogen Peroxide."

Pourpoint, Timothee L; aeronautical & astronautical engineering, from Sandia National Laboratories, \$65,000, "Investigation and Diagnosis of Rocket Exhaust Plumes; Amendment 1 (Grant 108158)."

Powley, Terry L; **Irazoqui, Pedro;** **Liu, Zhongming;** **Phillips, Robert J;** **Rajwa, Bartlomiej P;** **Rickus, Jenna L;** **Robinson, Joseph P** and **Ward, Matthew P;** psychological science, electrical & computer engineering, basic medical science, agricultural & biological engineering, biomedical engineering, from PHS-NIH Office of the Director, \$2,004,446, "Mapping Stomach Autonomic Circuitry and Function for Neuromodulation of Gastric Disorders."

Prabhakar, Sunil K; computer science, from Air Force Research Laboratory, \$162,172, "Quelea: Verified Compilation of Weakly-Consistent Distributed Systems."

Purcell, Lindsey A; forestry & natural resources, from Brandt Consolidated, \$7,500, "Voluntary Support – Purcell."

Radcliffe, John S; animal sciences, from Agricultural Research Service, \$48,156, "Auditory Perception of Swine on Maternal Behavior."

Radcliffe, John S; animal sciences, from Agricultural Research Service, \$21,802, "Evaluating the Effects of Climate Change on Livestock Physiology and Well-Being."

Ramani, Karthik; mechanical engineering, from General Electric Company, \$200,000, "PRIAM 16-03: Enhanced Remote Viewing and Measurement: Towards Future Augmented Reality (AR) Manufacturing Environments."

Ratliff, Timothy L; Cancer Research Center, from Purdue University, \$25,000, "PI4D Research Incentive Program."

Ratliff, Timothy L and **Kasinski, Andrea L;** Cancer Research Center, from Purdue University, \$10,000, "Identifying Genes that Drive Lung Cancer by Negative Selection Screen."

Reklaitis, Gintaras V; **Giridhar, Arun V** and **Nagy, Zoltan;** chemical engineering, from National Science Foundation, \$50,000, "I-Corps: Transforming Personalized Medicine with Printed Medicine."

Remis, Melissa J and **Schulze, Savannah M;** liberal arts – administration, anthropology, from Wenner-Gren Foundation/Anthropological Research, \$19,641, "Implications of Exclusion for Batwa Communities: Remaking Their Histories in a Multispecies Protected Landscape."

Richert, Brian T; animal sciences, from Agricultural Research Service, \$14,334, "Evaluating the Effects of Mitigation Strategies on Piglet Welfare and Future Productivity after Transport During Different Seasons."

Rochefford, Torbert R; agronomy, from The Agricultural Alumni Seed Improvement, \$10,000, "Voluntary Support."

Rodriguez, Catalina E; Education Opportunities Program – Calumet campus, from U.S. Department of Education, \$298,598, "Student Support Services (Year 2)."

Rogat, Aaron D; educational studies, from Concord Inc, \$45,274, "Genniconnect; Amendment 1."

Rokhinson, Leonid P; physics, from National Science Foundation, \$300,000, "Interplay Between Strongly Correlated Quantum Hall States and Superconductivity."

Rokhinson, Leonid P and **Lyanda-Geller, Yuli;** physics, from Office of Naval Research, \$30,000, "Conference on the Physics of Majorana Fermions and Topological Superconductivity."

Rossmann, Michael G; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$481,534, "Structure and Function of Icosahedral Viruses."

Rozhon, Atina M; field extension educators, from Jennings County Community Foundation, \$500, "Reading Made Fun."

Ryu, Minjung; chemistry, from National Science Foundation, \$304,814, "Collaborative Research: Project Reset: Refugee Engagement in Science Exploration for Transformative Purposes."

Sadeghi to Sullivan

Sadeghi, Farshid; mechanical engineering, from Timken Company, \$85,000, "Tribology Lab Research."

Sadof, Clifford S; entomology, from Brandt Consolidated, \$7,500, "Multi-Sponsor."

Salgado, Rodrigo and **Prezzi, Monica**; civil engineering, from Indiana Department of Transportation, \$200,000, "SPR 4109 - Improvement of Stiffness and Strength of Backfill Soils through Optimization of Compaction Procedures and Specifications."

Sanders, Jimmie L; Education Opportunities Program – Calumet campus, from U.S. Department of Education, \$356,640, "Educational Talent Program."

Savaiano, Dennis A; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$28,963, "Mansfield, Jennifer."

Schinckel, Allan P; animal sciences, from Shanghai Sunsing Livestock Poultry, \$32,000, "Sunsing Livestock."

Schoonmaker, Jon; animal sciences, from DSM Nutritional Products, Inc., \$25,000, "DSM Nutritional Products, Inc."

Schuette, Kenneth A; horticulture & landscape architecture, from Greater Houston Community Foundation, \$3,000, "Arneberg Family Charitable Fund."

Schulze, Darrell G; **Benes, Bedrich** and **Kong, Ningning N**; agronomy, computer graphics technology, library administration, from Natural Resources Conservation Service, \$100,000, "Integrating Spatial Educational Experiences - Leveraging NRCS Soils Databases to Visualize Soil Landscapes and Pedons."

Sepulveda, Maria S; forestry & natural resources, from Showalter Trust, \$5,000, "2015 Showalter Scholar Awards."

Shakouri, Ali; electrical & computer engineering, from Carrier Corporation, \$70,000, "Membership Agreement for an Existing Consortium (16121479) [Grant 208830]."

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

Shalaev, Vladimir M; **Boltasseva, Alexandra** and **Narimanov, Evgeniy**; electrical & computer engineering, from University of Michigan, \$320,000, "Centers of Excellence for Materials Research and Innovation (CEMRI) Photonic and Multiscale Nanomaterials; Amendment 8; Grant 105675."

Sheffield, John W; Lafayette Polytechnic, from International Association for Hydrogen Energy, \$2,500, "IAHE Expenses."

Shepson, Paul B; chemistry, from National Science Foundation, \$283,465, "Intergovernmental Personnel Act Assignment for Paul B. Shepson."

Shih, Tom I; aeronautical & astronautical engineering, from Ames Laboratory, \$100,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Turbines; Amendment 21."

Singh, Manpreet; food science, from Emges Deli LLC, \$75, "Multi-Sponsored Gift."

Singh, Manpreet; food science, from Kowalski Companies Inc, \$2,535, "Multi-Sponsored Gift."

Smith, Richard S; food science, from PHS-FDA Food and Drug Administration, \$183,064, "Training and Pilot Processing Laboratory Services for Food Processing Technology Courses, Mod 3; Grant 108196."

Snyder, Margie E; pharmacy practice, from PHS-Ahrq Agency/Healthcare Res & Quality, \$143,697, "Enhancing Clinical Decision Support Applications for Community Pharmacist-Delivered Medication Therapy Management."

Solwitz, Sharon D; English, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Spafford, Eugene H; computer science, from Lockheed Martin Corp., \$100,000, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

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

Steinbach, Sarah M; veterinary clinical science, from Infinity Medical, LLC, \$6,900, "Clinical Nephrology & Urology."

Stewart, Kara R; animal sciences, from Raymond Dean Boyd DBA, \$20,000, "Swine Research."

Stewart, Kara R and **Lugar, Drew W**; animal sciences, from US Pork Center of Excellence, \$703, "Pregnancy Diagnosis in Swine Using Ultrasonography."

Stewart, Kara R; animal sciences, from JBS United Inc, \$13,200, "Swine Research."

Stewart, Kara R; animal sciences, from Cook Research Incorporated, \$24,819, "Hemostatic Compounds in Swine."

Stewart, Kara R and **Lugar, Drew W**; animal sciences, from US Pork Center of Excellence, \$2,121, "Dystocia in Farrowing and How to Safely Pull Pigs."

Stwalley, Robert M; **Stwalley, Carol S**; **Hynes, Morgan M**; **Dickerson, Darryl A** and **Gleghorn, Virginia L**; agricultural & biological engineering, Minority Engineering Program, engineering education, from National Science Foundation, \$973,507, "Rising Scholars: Web of Support Used as an Indicator of Success in Engineering."

Subbarayan-Shastri, Ganesh; mechanical engineering, from Semiconductor Research Corporation, \$95,000, "Characterization of Mechanical Properties of Passivated Metal Lines; Amendment 1; Grant 208856."

Subramaniam, Mangala; sociology, from Purdue University, \$7,000, "CLA Research Incentive Grants."

Sudhoff, Scott D and **Pekarek, Steven D**; electrical & computer engineering, from Florida State University, \$2,000, "Purdue 2017-2021 ESRDC Efforts."

Sudhoff, Scott D; electrical & computer engineering, from National Renewable Energy Laboratory, \$33,333, "SuNLaMP AMPVI: Develop Magnetics Design Optimization Tool and Design and Construct Optimized Power Magnetics, Mod 4; Grant 108167."

Sullivan, John P; aeronautical & astronautical engineering, from Brigham Young University, \$3,543, "Development and Delivery of Aerospace Capstone Project Q4 2013-Q4 2016."

Sundaram to Zillich

Sundaram, Shreyas and **Voyles, Richard M**; electrical & computer engineering, technology – administration, from General Electric Company, \$242,791, “Priam 16.02: Distributed and Self-Adaptive Mechanisms for Resilient, Fault-Tolerant Control of Large-Scale Systems.”

Sutherland, John W; environmental & ecological engineering, from Michigan Technical University, \$65,540, “Oise-Pire: Sustainability, Ecosystem Services, and Bioenergy Development Across the Americas; Amendment 3; Grant 106310.”

Swithers, Susan E; psychological science, from PHS-NIH National Institute of Child Health and Human Development, \$2,000, “Annual Meeting of the International Society for Developmental Psychobiology.”

Taleyarkhan, Rusi P; nuclear engineering, from U.S. Department of Homeland Security, \$193,116, “High Efficiency (x2 He-3), Low-Cost / High Resolution TMFD Based Mobile-Fixed Sensors (with <\$1/cc Materials; <3% Resolution) for Detection of Shielded SNMS.”

Tarko, Andrew P and **Hall, Thomas M**; civil engineering, from Federal Highway Administration, \$35,500, “2016 Dwight David Eisenhower Graduate Fellowship for Thomas Hall.”

Taylor, Lynne S and **Zhou, Qi**; industrial & physical pharmacy, from Bill & Melinda Gates Foundation, \$673,871, “CMC Pilot Project to Evaluate Novel Drug Product Manufacturing Technologies.”

Tesini Roseguini, Bruno and **Gavin, Timothy P**; health & kinesiology, from American College of Sports Medicine, \$10,000, “Heat Stress and Skeletal Muscle Angiogenesis.”

Thompson, David H; chemistry, from Pandion Laboratories LLC, \$6,000, “Pandion Laboratories.”

Tsoukalas, Lefteri and **Choi, Chan K**; nuclear engineering, from North Carolina State University, \$320,000, “Proposal for a Consortium for Nonproliferation-Enabling Capabilities; Amendment 2; Grant 107272.”

Varma, Amit H; civil engineering, from Westinghouse Electric Corporation, \$341,221, “Modeling Deformed Wire Anchors (DWA) and Deformed Rebar Anchors (DRA) for Attachments to Concrete Structures.”

Vijaykumar, T N and **Thottethodi, Mithuna S**; electrical & computer engineering, from SK Hynix Inc, \$124,993, “PNN Architecture for Big Data.”

Vorvoreanu, Mihaela; computer graphics technology, from Citybase LLC, \$20,000, “City of Indianapolis Online Portal Research and Testing Contract with Citybase, LLC.”

Vyn, Tony J; agronomy, from Multi-Sponsored Industrials, \$1,000, “Agricultural Cropping Systems.”

Vyn, Tony J; agronomy, from Multi-Sponsored Industrials, \$930, “Agricultural Cropping Systems.”

Vyn, Tony J; agronomy, from Multi-Sponsored Industrials, \$470, “Agricultural Cropping Systems.”

Vyn, Tony J; agronomy, from Pioneer Hi-Bred International, Inc., \$50,000, “Voluntary Support.”

Vyn, Tony J; agronomy, from Multi-Sponsored Industrials, \$600, “Agricultural Cropping Systems.”

Wagner, Robert G; forestry & natural resources, from Indiana Arborists Association, Inc., \$7,500, “Indiana Arborists Association, Inc.”

Wei, Alexander; chemistry, from Shaoguang Lanwei Pharmaceutical Co, Ltd, \$45,441, “Testing Agreement for Detergent-Chlorine Dioxide Mixture.”

Williams, Christopher S; civil engineering, from Wiss, Janney, Elstner Associates, Inc., \$5,000, “WJE Voluntary Support.”

Williams, Rod N; forestry & natural resources, from Hoosier Herpetological Society, \$222, “Voluntary Support.”

Witkoske, Teresa J; field extension educators, from Wabash County United Fund, \$1,500, “Strengthening Early Literacy.”

Yang, Liu; New Albany Polytechnic, from Supply Velocity, \$14,400, “Distribution Network and Inventory Optimization.”

Yeo, Yoon; industrial & physical pharmacy, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Yeo, Yoon; industrial & physical pharmacy, from University of Chicago, \$158,095, “Image-Guided Radiation-Induced Permeability (IGRIP) for IGDD.”

Youngblood, Jeffrey P; materials engineering, from Toyota Motor Manufacturing Inc., \$22,000, “Preparation of Cellulose Nanofibril (CNF) High Strength Laminates.”

Zentner, Michael G; research computing (RCAC), from University of North Carolina, \$13,226, “Establishing a Prototype Hub for the Mathematics and Climate Research Network.”

Zentner, Michael G and **Vorvoreanu, Mihaela**; research computing (RCAC), industrial technology, from University of California – San Diego, \$688,612, “S2I2: Impl: the Science Gateways Community Institute (SGCI) for the Democratization and Acceleration of Science.”

Zhang, Min; statistics, from National Institutes of Health, \$171,467, “New Statistical Methods to Model Metabolite Profiles for Disease Detection.”

Zhou, Chenn Q; Center for Innovation through Visualization & Simulation, from U.S. Steel Corporation, \$35,206, “Ladle Skimmer Simulation.”

Zillich, Alan J; pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$12,936, “Intergovernmental Personnel Assignment (IPA) Agreement with Richard L. Roudebush VAMC.” ■

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