

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

July 2015

Abbott, Angela R and **Eicher-Miller, Heather A**; foods & nutrition, from Indiana Family and Social Services Administration, \$1,880,058, "Snap ED/Fnp Project FY 2015."

Abel, Steven R; Ainslie, Paul J and **Hicks, Jennifer L**; Office of Engagement, from Indiana Department of Education, \$226,213, "Mathematics in Science, Technology and Engineering."

Abraham, Dulcy M; civil engineering, from Indiana Department of Transportation, \$45,464, "SPR-3944 - Pre-Contract Scoping Processes - Synthesis of Best Practices."

Abu-Omar, Mahdi M and **Caruthers, James M**; chemical engineering, from Chevron Phillips Chemical Company, \$35,000, "Kinetics of Ethylene Oligomerization to Hexene and Octene."

Addison, Megan D; field extension educators, from Hancock County Community Foundation, \$1,000, "Kindergarten 101."

Adeola, Olayiwola; animal sciences, from DSM Nutritional Products, Inc., \$15,000, "DSM."

Aggarwal, Vaneet; industrial engineering, from National Science Foundation, \$229,504, "CIF: Small: Collaborative Research: Communications with Energy Harvesting Nodes."

Agnew, Christopher R; psychological science, from Purdue University F N Andrews Fellowship, \$18,257, "Kearns, Peter."

Agnew, Christopher R; psychological science, from Ross Graduate Fellowship/Assistantship, \$18,257, "Collison, Katherine."

Agnew, Christopher R; psychological science, from Purdue Doctoral Program, \$20,462, "Oumeziane, Belal."

Agnew, Christopher R; psychological science, from Winifred B. Bilsland Endowment, \$20,462, "Vanarsdall, Joshua."

Agnew, Christopher R; psychological science, from Ross Graduate Fellowship/Assistantship, \$18,257, "Zhang, Qi."

Agnew, Christopher R; psychological science, from Ross Graduate Fellowship/Assistantship, \$18,257, "Christopher, Edward."

Agnew, Christopher R; psychological science, from Purdue University F N Andrews Fellowship, \$18,257, "Daly, Christine."

Ahmed, Azza H; nursing, from Egyptian Cultural and Educational Bureau, \$4,000, "Support for Visiting Scholar; Amendment 1."

Aime, Mary C; botany & plant pathology, from National Science Foundation, \$289,045, "CSBR: Natural History Collections: Essential Improvements for the Arthur Fungarium at Purdue University."

Anderson, Trevor R; chemistry, from National Science Foundation, \$23,974, "Collaborative Research: Using Protein Function Prediction to Promote Hypothesis-Driven Thinking in Undergraduate Biochemistry Education."

Anderson, William E; Heister, Stephen D; Pourpoint, Timothee L and **Slabaugh, Carson D**; aeronautical & astronautical engineering, mechanical engineering, from Georgia Institute of Technology, \$300,000, "Combustion Stability Tool Development."

Applegate, Todd J; animal sciences, from Norel Animal Nutrition USA Inc, \$20,000, "Pyhtase in Poultry."

Bagchi, Saurabh and **Song, Xiaohui C**; electrical & computer engineering, academic technologies, from National Science Foundation, \$763,331, "CI: New: Collaborative Research: Computer System Failure Data Repository to Enable Data-Driven Dependability."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$21,462, "Huang, Gaoping."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Purdue University F N Andrews Fellowship, \$21,462, "Jain, Shubham."

Beaulieu, Lionel J; Office of Engagement, from Venturewell, \$1,250, "Multi-Sponsored Account (Purdue Center for Regional Development (PCRD))."

Beckerman, Janna L; botany & plant pathology, from National Institute of Food & Agriculture, \$149,995, "Addressing Integrated Pest Management (IPM) Needs to Improve Efficacies, Reduce Concentrations and Extend Critical Protectant Pesticide Needs for Midwest Fruit Production."

Ben-Amotz, Dor; Buzzard, Gregory T and **Lucier, Bradley J**; chemistry, mathematics, from Office of Naval Research, \$280,000, "Acquisition of an Optimized Binary Compressive Detection (Ob-CD) Raman Chemical Imaging System."

Benes, Bedrich; computer graphics technology, from Intel Corporation, \$20,000, "Intel."

Berger, Edward J; engineering education, from National Science Foundation, \$98,130, "The Engineering Genome Project."

Bertino, Elisa; computer science, from Electronics and Telecommunications Research Institute, \$45,000, "A Study on Applying White-Box Cryptography to Secure Drone Delivery Services." (a Discovery Park award — Cyber Center)

Bertino, Elisa; computer science, from Schlumberger Foundation, \$39,000, "Schlumberger Foundation Faculty for the Future Program Fellowship for Shagufta Mehnaz."

Bhave, Sunil A; electrical & computer engineering, from Semiconductor Research Corporation, \$130,000, "Acoustic-Wave Coupled Spin-Torque Oscillators." (a Discovery Park award — Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, "Hybrid Strain Assisted Magneto-Electric Switching." (a Discovery Park award — Birck Nanotechnology Center)

Biehl, Larry L; academic technologies, from Americaview Inc, \$23,500, “Stateview Program Development and Operations for the State of Indiana.”

Bolton, J S; mechanical engineering, from Schlumberger Foundation, \$40,000, “Support for Fatima Shahab.”

Breur, Gert J; veterinary clinical science, from Cook Research Incorporated, \$54,228, “Evaluation of OA Treatments in Guinea Pigs.”

Brunswicker, Sabine; industrial technology, from Accenture LLP, \$69,884, “Open Innovation Case Studies Analysis.”

Brush, Thomas H; management, from Purdue University F N Andrews Fellowship, \$7,399, “Lou, Rixing.”

Brush, Thomas H; management, from Purdue University F N Andrews Fellowship, \$7,399, “Godwin, Thomas.”

Buckius, Richard O; mechanical engineering, from National Science Foundation, \$749,160, “Intergovernmental Personnel Act (Intergovernmental Personnel Assignment (IPA)) Agreement for Richard Buckius.”

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Martinez, Eleana.”

Buzzard, Gregory T; mathematics, from Purdue Doctoral Program, \$32,808, “Martinez, Benito A.”

Buzzard, Gregory T; mathematics, from Purdue University F N Andrews Fellowship, \$28,586, “James, Melissa A.”

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Stoops, Sarah.”

Buzzard, Gregory T; mathematics, from Purdue University F N Andrews Fellowship, \$18,257, “Araiza, Roy.”

Buzzard, Gregory T; mathematics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Rosenblum, Alison.”

Cabot, Ryan A; animal sciences, from National Institutes of Health, \$328,335, “Developmental Requirements of Swi/Snf Chromatin Remodeling Complexes in Porcine Embryos.”

Caffee, Marc W; physics, from National Science Foundation, \$674,996, “Facility Support: Accelerator Mass Spectrometry at Prime Lab.”

Cai, Hubo; civil engineering, from National Science Foundation, \$216,521, “Mapping the Underworld of Buried Utilities – a Hybrid Approach of Sensing and ‘Virtual Sensors.’”

Campanella, Osvaldo H and Hamaker, Bruce R; agricultural & biological engineering, food science, from Pepsico Inc./ World Trading Co., \$58,769, “Oat Hull Oligosaccharide Ingredient Characterization for Physicochemical Properties and Functionality Continuation.”

Campbell, Wayne W; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Bergia, Robert.”

Carlson, Erica; physics, from National Science Foundation, \$210,000, “Decoding Spatial Complexity in Strongly Correlated Electronic Systems.”

Caudill, David J; field extension educators, from Crawford County Council for a Drug-Free Community, \$1,232, “Project Lead.”

Chang, Chun-Ju; basic medical science, from PHS-NIH National Cancer Institute, \$77,500, “Targeting Cell Polarity Machinery to Exhaust Breast Cancer Science, Technology, Engineering & Mathematics (STEM) Cell Pool.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$22,943, “Fy15-16 Indiana University School of Medicine (IUSM)-Fort Wayne Student Activity Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$55,000, “Fy15-16 Indiana University School of Medicine (IUSM)-Fort Wayne Hoffman Start-Up Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$22,943, “Fy15-16 Indiana University School of Medicine (IUSM)-Fort Wayne Student Technology Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$25,000, “Fy15-16 Indiana University School of Medicine (IUSM)-Fort Wayne Cns Tissue Bank Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$100,000, “Fy15-16 Indiana University School of Medicine (IUSM)-Fort Wayne Chang Start-Up Fund.”

Chang, Fen-Lei F; medical education — Fort Wayne campus, from Indiana University, \$10,000, “Fy15-16 Indiana University School of Medicine (IUSM) Fort Wayne Life Cycle Fund.”

Chapple, Clint C; Doudareva, Natalia and Morgan, John A; biochemistry, horticulture & landscape architecture, chemical engineering, from U.S. Department of Energy,

\$1,022,167, “Modeling and Manipulating Phenylpropanoid Pathway Flux for Bioenergy.”

Chen, Kuan-Chou; finance & economics — Calumet campus, from Indiana Campus Compact, \$2,250, “A Service-Learning Project to Reengineering a Donation Transaction Processing System for Northwest Indiana Food Bank.”

Chen, Weinong W; aeronautical & astronautical engineering, from Procter & Gamble Company, \$65,000, “High Strain Rate Characterization of Nonwoven Materials.”

Chen, Weinong W; aeronautical & astronautical engineering, from Procter & Gamble Company, \$65,000, “High Rate Monotonic and Cyclic Tensile of Polymer Single Fibers.”

Chen, Weinong W; aeronautical & astronautical engineering, from SINTEF Materials and Chemistry, \$10,000, “Dynamic Tri-Axial Compression Testing of Brittle Geomaterials.”

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

Chen, Zhixiang; botany & plant pathology, from National Science Foundation, \$180,749, “A Novel Selective Autophagy Pathway in Plant Immune Responses to Necrotrophic Pathogens.”

Cheng, Gary J; industrial engineering, from Greentech Solution, \$74,674, “High Speed Laser Crystallization (HSLC) of Aluminum Doped ZnO (AZO) Nanoparticles at Room Temperature for High Performance Transparent Conductive Oxide (TCO) Layer.”

Cheng, Ji-Xin; biomedical engineering, from PHS-NIH National Cancer Institute, \$234,465, “Quantitative Spectroscopic Imaging of Cancer Metabolites in Live Cells and Intact Tissues.”

Cheng, Ji-Xin; biomedical engineering, from Venturewell, \$5,000, “Marginpat.”

Cherkauer, Keith A; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$19,962, “Chin, Natalie.”

Childress, Michael O and Cushman, Mark S; veterinary clinical science, medicinal chemistry & molecular pharmacology, from Linus Oncology Inc, \$59,174, “Oral Bioavailability Study of Lmp744 in Dogs with Lymphoma.”

Chun, Hyonho; statistics, from Indiana Department of Transportation, \$5,000, “Performance Acceptance and Performance Monitoring of Pavement Using Falling Weight Deflector (FWD) and International Roughness Index (IRI).”

Clawson, Rosalee A; political science, from Ross Graduate Fellowship/Assistantship, \$15,457, “Bussell, Jessica M.”

Clawson, Rosalee A; political science, from Lynn Interdisciplinary Graduate Fellowship, \$23,435, “Haapala, Kate M.”

Clawson, Rosalee A; political science, from Ross Graduate Fellowship/Assistantship, \$18,257, “Wulbrecht, Elizabeth A.”

Clawson, Rosalee A; political science, from Purdue University F N Andrews Fellowship, \$19,462, “Kelly-Thompson, Kaitlin D.”

Collicott, Steven H; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$22,320, “Advancing Diaphragm Modeling Technology for Propellant Management.”

Collicott, Steven H; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$26,040, “Low Gravity Flow Boiling on Modern Textured Surfaces.”

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$74,738, “Expansion of Scope and Budget for SPR 3715 – S-Brite Center.”

Criswell, Alicia A; field extension educators, from Wayne County Foundation, \$1,050, “Block Party.”

Curtis, Susan; history, from Winifred B. Bilsland Endowment, \$20,189, “Martin, Donovan.”

Davis, Susan B; Office of Engagement, from Indiana University, \$10,000, “HH Small Business Development Center (SBDC) Multi-Sponsor Account (205027).”

De Hoop, Maarten V; mathematics, from National Science Foundation, \$190,000, “Inverse Boundary Value Problems for Scalar and Elastic Waves: Stability Estimates and Iterative Reconstruction.”

DeLaurentis, Daniel A and Landry, Steven J; aeronautical & astronautical engineering, industrial engineering, from National Aeronautics and Space Administration, \$317,006, “Safety Assessment for Separation Assurance in a Distributed Environment.”

Deng, Meng; agricultural & biological engineering, from Purdue Doctoral Program, \$31,804, “Zuponic, Jessica.”

Deshmukh, Abhijit V; industrial engineering, from Accenture LLP, \$25,000, “Accenture — Deshmukh.”

Dillman, Brian G; aviation technology, from Federal Aviation Administration, \$80,322, “Project #14L Midpoint Runway Marking.”

Doudareva, Natalia and Morgan, John A; biochemistry, chemical engineering, from National Science Foundation, \$800,000, “Collaborative Research: Elucidating the Molecular Architecture and Dynamics of Phenylalanine Biosynthesis in Plants.”

Doudareva, Natalia; biochemistry, from Michigan State University, \$253,891, “Evolution of Specialized Metabolite Biosynthetic Pathways in the Lamiaceae: Sources of Chemical Diversity for Molecules Essential for Human Use and Plant Defense.”

Dukes, Jeffrey S; agriculture — administration, from Virginia Polytechnic Institute & State University, \$500,000, “Collaborative Research EASM-3: Decadal Prediction of Sustainable Agricultural and Forest Management — Earth System Prediction.” (a Discovery Park award — Purdue Climate Change Research Center)

Dukes, Jeffrey S; forestry & natural resources, from Northern Arizona University, \$34,615, “Biogeochemical Responses and Feedbacks to Climate Change: Synthetic Meta-Analyses Relevant to Earth System Models.”

Eckhardt, Christopher I; psychological science, from Georgia State University, \$262,154, “Mechanisms of Alcohol-Facilitated Intimate Partner Violence.”

Eicher-Miller, Heather A; foods & nutrition, from Elanco Animal Health, \$31,937, “Nutrient Gaps and Disparities Among Food Insecure Children and Children from Low-Income Households: a Literature Review and Exploratory Analysis Using Nhanes 1999-2010.”

Elliott, Julie L; earth & atmospheric sciences, from Ross Graduate Fellowship/Assistantship, \$28,505, “Miller, Jordyn.”

Elliott, Stephen J and O'Connor, Kevin J; industrial technology, from Authentify Inc., \$27,901, “Authentify Face and Voice Data Collection.”

Engelberth, Abigail S; agricultural & biological engineering, from Purdue Doctoral Program, \$31,202, “Brace, Emma.”

Fankhauser, Gerald J; agriculture — administration, from Indiana State Department of Agriculture, \$20,000, “Moms Choose Turkey.”

Farkas, Brian E; food science, from Mizkan Americas Inc, \$850, “Food Science Research.”

Ferraro, Kenneth F; sociology, from Purdue University F N Andrews Fellowship, \$30,800, “Williams, Monica M.”

Ferraro, Kenneth F; sociology, from Ross Graduate Fellowship/Assistantship, \$28,586, “Rochford, Ellen.”

Ferruzzi, Mario; food science, from Purdue Doctoral Program, \$28,505, “McArthur, Breanna.”

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$9,609, “Tucci, James.”

Finley, John P; physics, from Purdue University F N Andrews Fellowship, \$18,257, “Bian, Tian.”

Finley, John P; physics, from Purdue University F N Andrews Fellowship, \$18,257, “Chen, Jian-Yu.”

Finley, John P; physics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Xiao, Rui.”

Finley, John P; physics, from Purdue Doctoral Program, \$19,744, “Burns, Branden.”

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$9,609, “Chung, Ting-Fung.”

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$9,853, “Kleinbaum, Ethan.”

Finley, John P; physics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Lee, Hyunwoo.”

Finley, John P; physics, from Winifred B. Bilsland Endowment, \$9,853, “Sun, Deke.”

Finley, John P; physics, from Purdue Doctoral Program, \$22,462, “Woods, Dewan.”

Finley, John P; physics, from Purdue University F N Andrews Fellowship, \$18,257, “Jiang, Liyang.”

Foster, Kenneth A; agricultural economics, from Ludwig Kruhe Graduate Scholarship, \$20,266, “Pena Levano, Luis M.”

Foster, Kenneth A; agricultural economics, from Chappelle, \$18,727, “Johnson, Andrew.”

Foster, Kenneth A; agricultural economics, from Winifred B. Bilsland Endowment, \$10,217, “Sun, Shanxia.”

Foster, Kenneth A; agricultural economics, from Purdue University F N Andrews Fellowship, \$28,586, “Smith, Timothy M.”

Foster, Kenneth A; agricultural economics, from Purdue University F N Andrews Fellowship, \$28,586, “McClain, William.”

Foster, Kenneth A; agricultural economics, from Purdue Doctoral Program, \$28,586, “Marquez Alacala, German Alberto.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Purdue Doctoral Program, \$15,457, “Freeman, Jonathan.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Lee, Michelle.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Adomako, Andrea Y.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Purdue Doctoral Program, \$2,765, “Freeman, Jonathan R (interdisciplinary graduate programs).”

Fouche, Rayvon D; interdisciplinary studies — general account, from Purdue Doctoral Program, \$2,800, “Freeman, Jonathan R (interdisciplinary graduate programs).”

Fouche, Rayvon D; interdisciplinary studies — general account, from George Washington Carver Fellowship, \$22,462, “Webb, Naeemah A.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Winifred B. Bilsland Endowment, \$20,189, “Bertolaet, Emma J.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Purdue University F N Andrews Fellowship, \$19,462, “Cienfuegos, Javier A.”

Fouche, Rayvon D; interdisciplinary studies — general account, from Winifred B. Bilsland Endowment, \$20,189, “Marsh, Maureen A.”

Freed, Andrew M; earth & atmospheric sciences, from Purdue University F N Andrews Fellowship, \$28,175, “Trowbridge, Alexander.”

Freed, Andrew M and Melosh, Henry J; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$127,000, “The Evolution of Large Impact Basins on the Moon, Mercury, and Mars.”

Frisbee, Marty D; earth & atmospheric sciences, from David M. Knox Endowment, \$19,822, “Stewart-Maddox, Noah.”

Frisbee, Marty D; earth & atmospheric sciences, from Purdue Doctoral Program, \$30,549, “Meyers, Zachary.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Saha, Aindrila.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Theisen, Chelsea.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Wehde, Katherine.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Jacobson, Kathryn.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Hillman, Ethan.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Gan, Rul.”

Gabauer, Colleen L; graduate school administration, from Purdue Doctoral Program, \$28,586, “Alvarado, Cynthia.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Foguth, Rachel.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Desouza-Carvalho, Thays.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Jiang, Ying.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Grimm De Gulbert, Julio.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Luo, Weichuan.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Heintz, Veronica.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Guo, Wei.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Ko, Mee Jung.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Myoung, Sunghyun.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Beketova, Elena.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Prakash, Priya.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Miloro, Stephen.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$14,346, “Ma, Songyao.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Radhakrish, Saranya.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Niyonsaba, Edouard.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Dutta, Sayan.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Esquina, Candi.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Chandran, Aswathy.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Sweet, Patrick.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Torres Zeld, Eliana.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Vike, Nicole.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,820, “Pak, Alexandr.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, “Salloom, William.”

Gallant, Kathleen H; foods & nutrition, from Ross Graduate Fellowship/Assistantship, \$25,586, “Stremke, Elizabeth.”

Garimella, Suresh V; mechanical engineering, from Du Pont Merck Pharmaceutical Company, \$7,500, “Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) 2012-2013 Membership — Memo Match for 106029.”

Garimella, Suresh V; mechanical engineering, from Aavid Thermalloy, \$7,500, “Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) 2012-2013 Membership — Memo Match for 106029.”

Garimella, Suresh V; mechanical engineering, from Superior Design, \$30,000, “Cooling Technologies Research Center (Cooling Technologies Research Center (CTRC)) 2012-2013 Membership — Memo Match for 106029.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$36,000, "Incorporation of Global Navigation Satellite System (GNSS) Multipath to Improve Autonomous Rendezvous, Docking, and Proximity Operations in Space NSTRF for Benjamin Ashman."

Gaskill, Brianna N; comparative pathobiology, from Petco Animal Supplies Inc, \$9,912, "Impact of Tickling in Rats on Welfare, Purchasing, and Customer Satisfaction."

Gavin, Timothy P; health & kinesiology, from Ross Graduate Fellowship/Assistantship, \$28,586, "Cho, Hyeyoung."

Gavin, Timothy P; health & kinesiology, from Purdue University F N Andrews Fellowship, \$28,586, "Kim, Kyoungrae."

Gleich, David F; computer science, from National Science Foundation, \$10,703, "III: Small: Spectral Clustering with Tensors."

Gletsu-Miller, Nana A; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, "Braun, Ethan."

Goergen, Craig J; biomedical engineering, from Cook Research Incorporated, \$16,000, "Cook Research Guinea Pig Image Testing."

Goergen, Craig J; biomedical engineering, from Chappelle, \$16,488, "Yrinea, Alexa A."

Gondhalekar, Ameya D; Scharf, Michael E and Bennett, Gary W; entomology, from Pest Management Foundation, \$16,000, "Screening of Field-Collected Bed Bugs Isolates for Resistance to Non-Chemical Treatments: Are They Developing Heat Resistance?."

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$500, "Support for the ASCE Journal of Hydrologic Engineering."

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$24,500, "Support for the ASCE Journal of Hydrologic Engineering."

Grant, Ryan W; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$29,523, "Mu, Wei-Chieh."

Gray, Nicholas W; diversity and multicultural affairs — Fort Wayne campus, from Indiana Department of Education, \$18,228, "2015 Indiana University-Purdue University Fort Wayne (IPFW) Upward Bound Summer Food Service Program."

Gruenbaum, Ellen R; anthropology, from Winifred B. Bilsland Endowment, \$20,189, "Maulod, Nuradlina B."

Gruenbaum, Ellen R; anthropology, from Winifred B. Bilsland Endowment, \$20,189, "Ecke, Jonas P."

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship/Assistantship, \$18,257, "Trivedi, Sunny B."

Gruenbaum, Ellen R; anthropology, from Purdue University F N Andrews Fellowship, \$19,462, "Sanders, Kaitlyn."

Gruenbaum, Ellen R; anthropology, from Purdue Doctoral Program, \$19,462, "Carrillo, Erika."

Gruenbaum, Ellen R; anthropology, from Ross Graduate Fellowship/Assistantship, \$15,457, "Dinar, Humera."

Guzey, Siddika; Ayres, Drew C; Bryan, Lynn A; Ryu, Minjung and Asunda, Paul A; curriculum & instruction, technology — administration, industrial technology, from Indiana Department of Education, \$83,445, "A New Msp Partnership to Improve Science, Technology, Engineering & Mathematics (STEM) Integration in Indiana."

Hacker, Thomas J; computer & information technology, from National Science Foundation, \$99,319, "Participant Support for the 2015 NSF Cyberbridges Workshop."

Halum, Stacey L and Harbin, Sherry L; speech, language & hearing sciences, basic medical science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$452,853, "Muscle Progenitor Cell-Based Implants for Dynamic Laryngeal Muscle Reconstruction."

Handwerker, Carol A; Zhao, Fu; Iyer, Ananth V and Sutherland, John W; materials engineering, mechanical engineering, management, environmental & ecological engineering, from Ames Laboratory, \$150,000, "Critical Materials Institute."

Handy, James C; technical assistance program, from Indiana Department of Transportation, \$49,000, "SPR-3948 Pre-Contract Scoping Processes Value Stream Mapping."

Harbor, Jonathan M; earth & atmospheric sciences, from Purdue University Special Initiative Program, \$33,812, "Roemmele, Christopher."

Hartman, Nathan W; computer graphics technology, from Bollinger Shipyards Lockport LLC, \$8,064, "NSRP 13-01 RA Participation - Computer Aided Robotics Welding (Car-W) Phase 0."

Hassanein, Ahmed; Sizyuk, Tatyana S and Fentiman, Audeen W; nuclear engineering, engineering education, from National Science Foundation, \$788,256, "PIRE: Nuclear Energy Systems and Materials Under Extreme Conditions."

Heber, Albert J; agricultural & biological engineering, from Drylet, \$10,000, "Agricultural Engineering."

Heeg, Marlene O; pharmacy — administration, from Janssen Therapeutics, \$680,000, "HIV Core—case-Based Learning to Optimize Real-World Excellence."

Heeg, Marlene O; pharmacy — administration, from Crescendo Bioscience, \$10,000, "2015 National Educational Initiative on Therapeutics & Rheumatology for Rheumatology State Societies."

Heeg, Marlene O; pharmacy — administration, from Takeda Pharmaceutical International Inc US Region, \$150,000, "2015 GiHF National Inflammatory Bowel Disease Educational."

Heinz, Michael G; speech, language & hearing sciences, from Action on Hearing Loss, \$265,342, "Physiological Evaluation of the Signal-to-Noise Envelope Power Ratio with Sensorineural Hearing Loss: Implications for Speech Intelligibility."

Henry, Madeleine M; foreign language & literature, from Ross Graduate Fellowship/Assistantship, \$18,257, "Gabbard, Robert T."

Henry, Madeleine M; foreign language & literature, from Ross Graduate Fellowship/Assistantship, \$18,257, "Takeuchi, Mai."

Henry, Madeleine M; foreign language & literature, from Ross Graduate Fellowship/Assistantship, \$18,257, "Takano, Naoko."

Henry, Madeleine M; foreign language & literature, from Purdue University F N Andrews Fellowship, \$19,462, "Kang, Minji."

Hertel, Thomas W; agricultural economics, from United Nations Economic Commission W Asia, \$40,870, "Global Trade Analysis Project (GTAP) Consortium."

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

Hertig, John B and Degnan, Daniel D; pharmacy — administration, from Becton Dickinson, \$219,186, "Research Proposal on Safety Benefits Associated with Pre-Filled Syringes."

Honarvar, Shaya; biology — Fort Wayne campus, from Drexel University, \$20,460, "Marine Turtle Conservation Initiatives on Bioko Island, Equatorial Guinea."

Hook, Tomas O; forestry & natural resources, from David M. Knox Endowment, \$20,189, "Kalejs, Nicholas."

Horgan, Briony H; earth & atmospheric sciences, from Purdue University F N Andrews Fellowship, \$28,505, “Scudder, Noel.”

Horner, Jane M; field extension educators, from Partners for a Drug Free Cass County, \$2,100, “Have a Healthy Baby 2015-16.”

Hountz, Randall A; Technical Assistance Program, from Northwestern University, \$419,140, “Midwest Small Practice Care Transformation Research Alliance.”

Hummels, David L; management, from Winifred B. Bilsland Endowment, \$20,371, “Khern-AM-Nual, Warut.”

Hunter, Susan R; industrial engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Applegate, Eric a.”

Irazoqui, Pedro; Liu, Zhongming; Powley, Terry L; Robinson, Joseph P and Ward, Matthew P; biomedical engineering, psychological science, basic medical science, from Purdue University, \$160,216, “Closed-Loop Neuromodulation of the Vagus-Gut Pathway.”

Irazoqui, Pedro; biomedical engineering, from Chappelle, \$16,488, “Thackston, Kyle A.”

Irudayaraj, Joseph M; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$9,853, “Cul, Yi.”

Jacobs, Douglass F; forestry & natural resources, from U.S. Forest Service, \$25,000, “Optimizing Nursery Photoperiod to Promote Root Growth of Forest Tree Seedlings after Planting.”

Jahanshahi, Mohammad Reza; civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,505, “Wu, Rih-Teng.”

Janaswamy, Srinivas; food science, from Purdue Doctoral Program, \$28,505, “Carter, Carlos.”

Jenkins, Michael A; forestry & natural resources, from Winifred B. Bilsland Endowment, \$9,609, “Graham, Bradley D.”

Jiang, Qing; foods & nutrition, from University of North Carolina, \$22,030, “Phase II Studies of Gamma Tocopherol as an Intervention for Environmental Asthma, Amendment No. 2.”

Jiang, Yiwei; agronomy, from U.S. Department of Energy, \$184,662, “Genetic Control of Flowering Time in Switchgrass.”

Johnson, Carla J and Guzey, Siddika; curriculum & instruction, from Indiana Department of Education, \$85,019, “Avon-Purdue Math and Science Partnership Program.”

Jones, Owen G; Campanella, Osvaldo H; Reuhs, Bradley L and Hamaker, Bruce R; food science, agricultural & biological engineering, from Kraft Food Inc., \$70,012, “Polysaccharide Characterization of Structural, Interactive, and Functional Properties.”

Keener, Kevin M; food science, from Sealed Air Corporation, \$10,000, “High Voltage Atmospheric Cold Plasma Treatment (HVACP) of Sealed Air Product.”

Keener, Kevin M; food science, from Foster Farms, \$9,994, “High Voltage Atmospheric Cold Plasma Treatment (HVACP) of Raw Poultry.”

Kentamaa, Hilkka I; chemistry, from Pioneer Oil Company, \$8,752, “Development of Methodology for the Molecular Level Characterization of Crude Oil, Brine, and Other Complex Mixtures Relevant to Enhanced Oil Recovery.”

Kever, Shubitha S; diversity and multicultural affairs — Fort Wayne campus, from U.S. Department of Education, \$220,000, “Trio Student Support Services at Indiana University-Purdue University Fort Wayne (IPFW) 2015-2016.”

Kihara, Daisuke; biological sciences, from National Science Foundation, \$164,803, “III: Small: Rapid Response Research (RAPID) Screening of Interacting Ligands and Proteins.”

Kim, Kee Hong; food science, from Winifred B. Bilsland Endowment, \$9,853, “Zhu, Yuyan.”

Kim, Kee Hong; food science, from Jun BAE Ahn, \$1,000, “Multi-Sponsor Gift.”

Kinzer-Ursem, Tamara L; biomedical engineering, from Purdue University F N Andrews Fellowship, \$31,804, “Parasa, Mrugesh.”

Kluender, Keith R; speech, language and hearing sciences, from David M. Knox Endowment, \$20,189, “Haverstock, Kailyn.”

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$20,189, “Codd, Cassandra.”

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$20,189, “Merzdorf, Jessica.”

Kluender, Keith R; speech, language and hearing sciences, from Purdue Doctoral Program, \$20,462, “Fujiki, Robert.”

Kluender, Keith R; speech, language and hearing sciences, from Ross Graduate Fellowship/Assistantship, \$18,257, “Kadlaskar, Girja.”

Kuhn, Richard J; biological sciences, from Ross Graduate Fellowship/Assistantship, \$18,257, “Martinez, Alexander.”

Kuhn, Richard J; biological sciences, from Purdue Doctoral Program, \$18,257, “Zlotnik, Sara.”

Kuhn, Richard J; biological sciences, from Ross Graduate Fellowship/Assistantship, \$18,257, “Li, Chennan.”

Kuhn, Richard J; biological sciences, from Purdue University F N Andrews Fellowship, \$28,586, “Lie, Richard.”

Kuhn, Richard J; biological sciences, from Purdue Doctoral Program, \$18,257, “Keener, Adam.”

Kuhn, Richard J; biological sciences, from Purdue University F N Andrews Fellowship, \$28,586, “Moore, Corey A.”

Kuhn, Richard J; biological sciences, from Ross Graduate Fellowship/Assistantship, \$18,257, “Ganguly, Sanniv.”

Kuhn, Richard J; biological sciences, from Winifred B. Bilsland Endowment, \$9,973, “Yu, Guimei.”

Kuhn, Richard J; biological sciences, from Winifred B. Bilsland Endowment, \$9,973, “Erramilli, Satchal.”

Kuhn, Richard J; biological sciences, from Ross Graduate Fellowship/Assistantship, \$18,257, “Choh, Leang-Chung.”

Kuhn, Richard J; biological sciences, from Winifred B. Bilsland Endowment, \$9,973, “Wijayawardena, Bhagya.”

Kuhn, Richard J; biological sciences, from Winifred B. Bilsland Endowment, \$10,217, “Gall, Aaron R.”

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

Ladisch, Michael R; agricultural & biological engineering, from Purdue University F N Andrews Fellowship, \$31,804, “Hengge, Neal.”

Landry, Steven J; industrial engineering, from Purdue Doctoral Program, \$31,804, “Reinert, Christopher M.”

Lang, Rafael F; physics, from National Science Foundation, \$174,640, “Collaborative Research: Continuation of the Xenon Dark Matter Search Program at Lngs.”

Lang, Rafael F; physics, from Columbia University, \$28,899, “The Xenon1T Dark Matter Project: a Project Proposal from the US Institutions of the Xenon Collaboration; Amendment 4.”

Latin, Richard X; botany & plant pathology, from Bayer Cropscience, \$21,900, “Turfgrass Disease Research.”

Latin, Richard X; botany & plant pathology, from Valent U.S.A. Corporation, \$5,600, “Turfgrass Disease Research.”

Law, William R; engineering, mathematics & science — Calumet campus, from U.S. Forest Service, \$39,171, “Urban Waters Partnership in Northwest Indiana.”

Leung, Yuk Fai; biological sciences, from Schlumberger Foundation, \$49,100, “Fellowship for Prahatha Venkatraman.”

Liceaga, Andrea M; food science, from Hearthside Food Solutions LLC, \$3,000, “Multi-Sponsored Gift — Sensory.”

Liceaga, Andrea M; food science, from Pierre, \$4,000, “Multi-Sponsored Gift — Sensory.”

Liceaga, Andrea M; food science, from Kroger Company, \$9,000, “Multi-Sponsored Gift — Sensory.”

Liceaga, Andrea M; food science, from Rubicon Resources, \$2,000, “Multi-Sponsored Gift — Sensory.”

Liceaga, Andrea M; food science, from Skotidakis Goat Farm, \$4,000, “Multi-Sponsored Gift — Sensory.”

Liceaga, Andrea M; food science, from Weaver Popcorn Company, \$6,000, “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 Bay Valley Foods LLC, \$1,020, “Multi-Sponsored Gift — Sensory.”

Lin, Xiaojun and Liu, Lu; electrical & computer engineering, industrial engineering, from National Science Foundation, \$399,831, “EPCN: Achieving Robust Power System Operations Under Uncertainty and Price-Driven Active Demand-Side Participation.”

Litster, James D; chemical engineering, from National Institute for Pharmaceutical Technology and Education, \$89,000, “NIPTE/FDA QbD Proposal-Purdue Sub-Contract.”

Liu, Zhongming; electrical & computer engineering, from PHS-NIH National Institute of Mental Health, \$507,530, “Multimodal Hyperspectral Imaging of Brain Activity and Connectivity.”

Lopez, Roberto G; horticulture & landscape architecture, from Michigan State University, \$4,000, “Pre-Plant Liner Soak Applications Influence Shoot Growth and Development of Vegetatively Propagated Single-Node Pennisetum Setaceum “Rubrum” Science, Technology, Engineering & Mathematics (STEM) Cuttings.”

Love, David J; electrical & computer engineering, from Raytheon, \$83,583, “Retrodirective Array for Coherent Transmissions.”

Lu, Yung-Hsiang; electrical & computer engineering, from National Science Foundation, \$499,989, “SI2-SSE:Analyze Visual Data from Worldwide Network Cameras.”

Luke, Eileen M; CERIS, from Animal Plant Health Inspection Service, \$21,945, “A Web-Based System to Provide Communications Between Shipping Nurseries and State Plant Regulators.”

Lumkes, John H; agricultural & biological engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Wilfong, Gabriel.”

Ma, Zhao; forestry & natural resources, from U.S. Forest Service, \$29,677, “Factors Motivating Sustainable Operational Behaviors within the USDA Forest Service.”

Martinez, Kimber J; youth development & agricultural education, from Texas Migrant Council Inc, \$2,000, “TMC Migrant Seasonal Head Start.”

Martinez, Ramses; industrial engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Goswami, Debkalpa.”

Matson, Eric T; computer & information technology, from Cruise Automation Inc, \$21,000, “Cruise Automation, Inc. Fellowship for Shiva Ghose.”

Matson, Eric T; computer & information technology, from Tupperware, \$23,000, “Rose-Hub Membership.”

Matson, Eric T; Springer, John A; Taylor, Julia M; Dietz, James E and Smith, Anthony H; computer & information technology, from Information & Communication Technology Promotion, \$1,815,000, “K-SouthWest Square”

Mattes, Richard D and Buhman, Kimberly K; health and human sciences, foods & nutrition, from California Walnut Commission, \$150,920, “The Effects of Mastication and Digestion on the Bioaccessibility of Energy from Walnuts.”

Mattes, Richard D; foods & nutrition, from National Institutes of Health, \$72,352, “Interdisciplinary Training in Signals Controlling Ingestion and Obesity.”

Mattson, Marifran; communication, from Purdue Doctoral Program, \$19,462, “Velazquez, Ashley J.”

Mattson, Marifran; communication, from Ross Graduate Fellowship/Assistantship, \$18,257, “Ptacek, Jennifer.”

Mattson, Marifran; communication, from Ross Graduate Fellowship/Assistantship, \$18,257, “Severin, Dilbar M.”

Mattson, Marifran; communication, from Ross Graduate Fellowship/Assistantship, \$15,457, “Lillie, Helen M.”

Mattson, Marifran; communication, from Purdue University F N Andrews Fellowship, \$19,462, “Inderstrodt, Jill M.”

Mattson, Marifran; communication, from Purdue Doctoral Program, \$19,462, “Sanchez, Virginia.”

Mattson, Marifran; communication, from Purdue Doctoral Program, \$19,462, “Verhoff, China B.”

Mauer, Lisa J; food science, from PepsiCo Inc./ World Trading Co., \$54,282, “Effects of Formulation(Sucrose Reduction Strategies) and Unit Operations on the Ingredient Architecture, Finished Product Texture, and Stability of Cookies.”

Mauer, Lisa J; food science, from Institute of Food Technologists, \$25,000, “IFT Research Award.”

McCann, Maureen C; Dietz, James E and Sharma, Pankaj; biological sciences, computer & information technology, comparative pathobiology, from Office of Naval Research, \$199,657, “Power and Energy: a Science, Technology, Engineering & Mathematics (STEM) Program to Inspire Leadership in Science and Technology for the Workforce of the Future Fleet.” (a Discovery Park award — Energy Center)

McMillan, Sara K; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$19,962, “Bell, Colin.”

McMillan, Sara K; agricultural & biological engineering, from George Washington Carver Fellowship, \$21,862, “Scarlett, Rachel.”

Melloch, Michael R; electrical & computer engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Mckinzie, Keith.”

Mengiste, Tesfaye D; botany & plant pathology, from National Science Foundation, \$177,802, “Untangling the Complex Network of BIK1 Mediated Immune Response Signaling Pathways.”

Mentzer, Nathan and **Kramer, Rebecca K**; industrial technology, mechanical engineering, from National Science Foundation, \$716,301, “Soft Robotics to Broaden the Science, Technology, Engineering & Mathematics (STEM) Pipeline.”

Minton, David A; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$201,042, “Modeling Regolith Evolution During the Post-Basin Epoch of Lunar History.”

Mosier, Nathan S; agricultural & biological engineering, from Purdue University F N Andrews Fellowship, \$31,804, “Burchell, Julia.”

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$74,000, “Flow Boiling and Condensation in Microgravity-NSTRF Fellowship for Lucas Oneill.”

Murray, Michael D; pharmacy practice, from Regenstrief Institute for Health Care, \$98,477, “Observational Medical Outcomes Partnership (Observational Medical Outcomes Partnership (OMOP) 2011 Research Collaborations.”

Mutchler, Jane F; management — Calumet campus, from Indiana University, \$15,000, “Northwest Indiana Small Business Development Center- IUN Cash Match Support.”

Neu, Corey P; biomedical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$316,287, “Probing Osteoarthritis Pathogenesis by Noninvasive Imaging of Cartilage Strain.”

Nie, Linda H; health sciences, from Harvard School of Public Health, \$44,401, “Early and Late-Life Metal Exposures and Alzheimers Disease; Amendment 1.”

Nie, Linda H; **Wells, Ellen M** and **Zheng, Wei**; health sciences, from National Institutes of Health, \$253,019, “Bone Manganese as a Biomarker for Early Diagnosis of Manganese Neurotoxicity in Occupationally Exposed Workers.”

Nielsen, Robert L; agronomy, from Valent U.S.A. Corporation, \$6,000, “Corn & Soybean Production.”

Niyogi, Devdutta S; agronomy, from Lynn Interdisciplinary Graduate Fellowship, \$28,505, “Liu, Jie.”

Niyogi, Devdutta S; agronomy, from National Aeronautics and Space Administration, \$30,000, “Integrating Land Surface Processes for Improved Simulation of Landfalling Tropical Cyclones - Saiprasanth Bhalachandran.”

Noinaj, Nicholas; biological sciences, from National Institutes of Health, \$159,179, “The Role of Bama in the Biogenesis of Beta-Barrel Membrane Proteins.”

Oakes, William C; engineering education, from Motorola Foundation, \$75,000, “Motorola Solutions Foundation.”

Olek, Jan and **Weiss, William J**; civil engineering, from Solidia Technologies, \$276,977, “Failure Mechanisms in Concrete: a Comparative Study of the Ordinary Portland Cement (OPC) and Solidia Cement (SCC) Concretes.”

Olenchak, F R; educational studies, from Ross Graduate Fellowship/Assistantship, \$29,908, “Adeoye, Temitope.”

Olenchak, F R; educational studies, from Ross Graduate Fellowship/Assistantship, \$29,908, “Trujillo, Natasha.”

Olenchak, F R; educational studies, from Purdue University F N Andrews Fellowship, \$26,482, “Brown, Andrew.”

Olenchak, F R; educational studies, from Ross Graduate Fellowship/Assistantship, \$29,908, “Shuba, Todd.”

Olenchak, F R; educational studies, from Purdue Doctoral Program, \$23,067, “Green, Corinne.”

Olenchak, F R; educational studies, from Purdue University F N Andrews Fellowship, \$29,908, “Lu, Yaheng.”

Olenchak, F R; educational studies, from Purdue Doctoral Program, \$29,908, “Tandy, Jacob.”

Oliver, Haley F; food science, from Okos, Martin R, \$5,000, “Oliver — Multi-Sponsored Gift.”

Owens, Phillip R; agronomy, from Catholic Relief Services, \$307,489, “From Guessing to Precision — Soil Fertility Management in Central America - Getting the Dots Connected.”

Panchal, Jitesh H; mechanical engineering, from Purdue Doctoral Program, \$31,804, “Dachowicz, Adam.”

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

Panitch, Alyssa; Office of the Provost Reserves, from George Washington Carver Fellowship, \$31,804, “Vazquez-Portalatin, Nelda.”

Pasupathy, Raghu; statistics, from National Science Foundation, \$149,380, “Collaborative Research: a Framework for Evaluation, Approximation, and Optimization of Time-Dependent Stochastic Service System Models Having Deterministic/Scheduled Interventions.”

Peroulis, Dimitrios and **Scott, Sean M**; electrical & computer engineering, from Landauer, \$117,683, “Microelectromechanical System (MEMS)-Scale Advanced Radiation Sensor Program.” (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Purdue Doctoral Program, \$20,862, “Vaughn, Brian.”

Peterson, John R; physics, from Association of University for Res Indiana Astronomy, \$193,000, “Phosim Large Synoptic Survey Telescope (LSST) Characteristics Development & Large-Scale Image Production.”

Pijanowski, Bryan C; forestry & natural resources, from National Park Service, \$40,445, “Bioacoustic Assay for Marine Ecosystem Health and Diversity.”

Porterfield, D. M; agricultural & biological engineering, from National Aeronautics and Space Administration, \$297,324, “Intergovernmental Personnel Assignment (IPA) Assignment Agreement.”

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

Pourpoint, Timothee L; **Ramachandran, P V** and **Bane, Sally P**; aeronautical & astronautical engineering, chemistry, from Missile Defense Agency, \$234,000, “Development and Characterization of Hypergolic Propellants for MDA Applications.”

Prabhakar, Sunil K; computer science, from Purdue University F N Andrews Fellowship, \$17,848, “Karisani, Negin.”

Prabhakar, Sunil K; computer science, from The National GEM Consortium, \$21,000, “GEM Masters Fellowship - Andres Bravo.”

Prabhakar, Sunil K; computer science, from Purdue Doctoral Program, \$6,250, “Johnson, Amber.”

Prabhakar, Sunil K; computer science, from David M. Knox Endowment, \$19,822, “Kossler, Emily.”

Prabhakar, Sunil K; computer science, from Winifred B. Bilsland Endowment, \$8,609, “Xu, Cong.”

Prabhakar, Sunil K; computer science, from Winifred B. Bilsland Endowment, \$8,609, “Hoque, Molecular Dynamics (MD) Endadul.”

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship/Assistantship, \$17,848, “Singh, Vishwanath Pratap.”

Prabhakar, Sunil K; computer science, from Lynn Interdisciplinary Graduate Fellowship, \$18,176, “Fang, Chi-Hao.”

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship/Assistantship, \$17,848, “Ferdous, Sm.”

Quagrainie, Kwamena K and **Rode, Robert A**; agricultural economics, forestry & natural resources, from Indiana State Department of Agriculture, \$5,000, “Aquaculture Industry Tour by Foodservice Professionals.”

Radcliffe, John S; **Richert, Brian T** and **Ni, Jiqin**; animal sciences, agricultural & biological engineering, from University of Arkansas, \$338,257, “Integrated Resource Management Tool to Mitigate the Carbon Footprint of Swine Produced in the U.S.”

Rao, P Suresh C and **Nies, Loring F**; civil engineering, from National Science Foundation, \$40,320, “Resilience of Interdependent Infrastructure Networks.”

Ratcliffe, Krista L; English, from Purdue University F N Andrews Fellowship, \$19,462, “Batti, Bianca L.”

Ratcliffe, Krista L; English, from Winifred B. Bilsland Endowment, \$20,189, “Nail, Stacy.”

Ratliff, Timothy L; Vice President for Research, from PHS-NIH National Cancer Institute, \$1,527,821, “Cancer Center Support Grant.”

Ratliff, Timothy L; comparative pathobiology, from Indiana Elks Charities Inc., \$100,000, “Indiana Elks Charities Inc.”

Reed, Willie M; veterinary medicine — administration, from Indiana Dog Tax, \$4,166, “Indiana State Dog Tax.”

Reid, Tahira; mechanical engineering, from The P & G Company, \$64,000, “Voluntary P&G.”

Reid, Tahira; mechanical engineering, from George Washington Carver Fellowship, \$21,862, “Dandridge, Tikyna.”

Richert, Brian T; animal sciences, from Agricultural Research Service, \$19,260, “Dietary Modification to Eliminate Ulcers in Sows.”

Richmond, Douglas S; entomology, from Agricultural Research Service, \$4,000, “Biological Control of Black Cutworm in Turf with Baculovirus.”

Ridgway, Kenneth D; earth & atmospheric sciences, from David M. Knox Endowment, \$19,822, “Arementa, Mariah.”

Ridgway, Kenneth D; earth & atmospheric sciences, from National Science Foundation, \$12,946, “Collaborative Research: Expedition 341 Oriented Research - Linking Sediment Provenance and Strata Formation.”

Roberts, Felicia D; communication, from Purdue University F N Andrews Fellowship, \$19,462, “Clare, Roderick G.”

Roberts, Felicia D; communication, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Chen, Pin-His.”

Roberts, Felicia D; communication, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Crabtree, Margaret.”

Robicheaux, Francis J; physics, from National Science Foundation, \$75,000, “Interactions with and Between Rydberg Atoms.”

Robinson, Joseph P; basic medical science, from Purdue University F N Andrews Fellowship, \$28,505, “Gondhalekar, Carmen.”

Rocheford, Torbert R; agronomy, from HarvestPlus, \$200,000, “Genetic Research to Enhance Breeding for Higher Levels of Pro-Vitamin A in Maize Grain.”

Rodriguez, Catalina E; student services — North Central campus, from U.S. Department of Education, \$289,901, “Student Support Services.”

Rodriguez, Jorge; Purdue Memorial Union, from Defense Threat Reduction Agency, \$159,541, “Ab-Initio & Semiempirical Investigation of Deinococcus Radiodurans Resistance to Ionizing & UV Radiation.”

Ross, Charles S; English, from Purdue Doctoral Program, \$18,257, “Cupery, Maria J (OIGP).”

Ross, Charles S; English, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Wang, Lang.”

Ross, Charles S; English, from Lynn Interdisciplinary Graduate Fellowship, \$15,457, “Fan, Jiacheng.”

Rossmann, Michael G; biological sciences, from National Science Foundation, \$775,454, “X-Ray Determinations of Proteins and Viruses.”

Sangid, Michael D; aeronautical & astronautical engineering, from U.S. Department of Energy, \$111,247, “Deformation Mechanisms at Grain Boundaries in Polycrystals.”

Saunders, Michael R; forestry & natural resources, from U.S. Forest Service, \$44,000, “Effects of Prescribed Fire within Shelterwood Regeneration Systems on Residual Overstory Timber Quality.”

Scalo, Carlo; mechanical engineering, from Lynn Interdisciplinary Graduate Fellowship, \$28,505, “Gupta, Pateek.”

Schmidt, Edie K; **Newton, Kathryne A** and **Laux, Chad**; industrial technology, from National Science Foundation, \$146,418, “Collaborative Project: Technology-Based Logistics: Leveraging Indianas Role as the Crossroads of America.”

Schneider, Ryan R; PMU Dining Operating, from Ross Graduate Fellowship/Assistantship, \$18,257, “Regan, Kylie N.”

Schneider, Ryan R; PMU Dining Operating, from Ross Graduate Fellowship/Assistantship, \$15,457, “Larsen, Haley A.”

Schneider, Steven P; aeronautical & astronautical engineering, from Raytheon, \$124,000, “Raytheon Experiments in the Mach-6 Quiet Tunnel.”

Schoenlein, William E and **Lenz, Stephen D**; biomedical engineering, comparative pathobiology, from Cook Research Incorporated, \$37,586, “Pre-Clinical Device Testing Agreement; Studies: CBI-GHGB, POC and Sentinels.”

Scott-Moncrieff, Joanna C; veterinary clinical science, from North Central Veterinary Emergency Center LLC, \$5,400, “ECC Residency Training Program.”

Scott-Moncrieff, Joanna C; veterinary clinical science, from Higashida Veterinary Clinic, \$77,979, “DXI Residency Support.”

Sesmero, Juan P; agricultural economics, from Catholic Relief Services, \$10,000, “The Effect of Irrigation and Nutrition Education on Dietary Diversity in Ethiopia: Phase II Identifying Mechanisms Behind the Link Between SSI and DDI and Reviewing Any Potential Linkages Between NED.”

Shah, Kavita; chemistry, from PHS-NIH National Institute on Aging, \$222,420, “Exploring Foxo Signaling in Promoting Neurodegeneration in Ad.”

Shakouri, Ali and **Moon, Robert J**; electrical & computer engineering, materials engineering, from U.S. Forest Service, \$18,500, “Renewable Materials Nanotechnology Research Initiative.” (a Discovery Park award — Birck Nanotechnology Center)

Shalaev, Vladimir M; electrical & computer engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Shah, Deesha.”

Sheehan, Amy H; pharmacy practice, from Takeda Pharmaceutical International Inc US Region, \$144,400, “Takeda-Purdue Regulatory Fellowship.”

Shepson, Paul B; chemistry, from Environmental Defense Fund, \$9,200, “Pilot Project to Measure Methane Emissions from Gas Turbine Power Plants and Oil Refineries.”

Shih, Tom I; aeronautical & astronautical engineering, from Ross Graduate Fellowship/Assistantship, \$18,462, “Zimovan, Emily.”

Shih, Tom I; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$7,500, “National Aeronautics and Space Administration (NASA) Aeronautics Scholarship Program - Student Name: Joseph Lorenzetti.”

Shih, Tom I; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$15,000, “National Aeronautics and Space Administration (NASA) Aeronautics Scholarship Program - Student Name: Nichola Villarreal Styles.”

Shin, Yung C; mechanical engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Xiang, Sen.”

Shively, Gerald E; agricultural economics, from Tufts University, \$119,438, “Nutrition Collaborative Research Support Programs (CRSP), Focus on Africa.”

Sinfield, Joseph V; civil engineering, from Procter & Gamble Company, \$170,308, “Achieving Enabling Innovation.”

Singh, Manpreet; food science, from Mayas Barkery LLC, \$75, “Multi-Sponsored Gift.”

Singh, Manpreet; food science, from Shrum, Kathy R, \$50, “Multi-Sponsored Gift.”

Singh, Shweta; agricultural & biological engineering, from Ross Graduate Fellowship/Assistantship, \$28,792, “Wach, Elizabeth.”

Sloan, Mary Anne; global affairs, from Sitjar, Julius S., \$500, “Multi-Sponsor Account I-HITEC.”

Sloan, Mary Anne; global affairs, from Southwestern Behavioral Healthcare, \$1,520, “Multi-Sponsor Account I-HITEC.”

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$24,065, “Wang, Qiaoying.”

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$25,195, “Armadita, Fliza.”

Smith, Mjt; graduate school administration, from Purdue University Special Initiative Program, \$25,200, “Barry, Sean P.”

Son, Steven F; mechanical engineering, from Pennsylvania State University, \$115,437, “Smart, Functional Nanoenergetics Design from the Atomistic/Molecular Scale through the Mesoscale; Amendment 3.”

Springer, John A; computer & information technology, from Oak Ridge National Laboratory, \$20,000, “Performance Evaluation of Scientific Analytics Codes.”

Springer, John A; computer & information technology, from Robert and Denise Boehnlein, \$20,000, “General Operating Database; J Springer.”

Stefanska, Barbara M; foods & nutrition, from Chappelle, \$20,189, “Kurzava, Luncinda.”

Steup, Matthias P; philosophy, from Purdue University F N Andrews Fellowship, \$19,462, “Plymesser, Emily B.”

Steup, Matthias P; philosophy, from Ross Graduate Fellowship/Assistantship, \$15,257, “Hajkova, Alzbeta.”

Steup, Matthias P; philosophy, from Purdue University F N Andrews Fellowship, \$19,462, “Wilson, Luke W.”

Steup, Matthias P; philosophy, from Purdue Doctoral Program, \$19,462, “Espinoza, Reyes.”

Steup, Matthias P; philosophy, from Ross Graduate Fellowship/Assistantship, \$18,257, “Setman, Stephen A.”

Sudhoff, Scott D and **Pekarek, Steven D**; electrical & computer engineering, from Exquadrum Inc, \$45,000, “Multi-Mode on-Board Power Generation.”

Swihart, Robert K; forestry & natural resources, from University of Illinois at Champaign-Urbana, \$11,355, “Amendment 5, Cooperative Agreement with EPA Great Lakes National Program Office.”

Tao, Weiguo A and **Zhu, Jian-Kang**; biochemistry, from National Science Foundation, \$389,935, “Suschem: New Proteomic Strategy

to Visualize and Analyze Phosphoproteomes.”

Tao, Weiguo A; biochemistry, from Tymora Analytical Operations, LLC, \$171,698, “Metal Ion-Functionalized Soluble Nanopolymers: a New Analytical Platform for Plasma Proteomics.”

Taylor, Lynne S and **Mosquera-Giraldo, Laura I**; industrial & physical pharmacy, from America Association Pharmaceutical Scientist, \$10,000, “A Molecular Perspective for the Understanding of the Effectiveness of Cellulose Polymers at Inhibiting Drug Crystallization.”

Teegarden, Dorothy; foods & nutrition, from Ross Graduate Fellowship/Assistantship, \$28,586, “Yum, Chae.”

Thompson, David H; chemistry, from PHS-NIH National Institute of Biomedical Imaging & Bioengineering, \$228,436, “Development of Long-Circulating, Degradable Gd-Polyrotaxane Mr Agents.”

Tobias, Justin L; economics, from Purdue Doctoral Program, \$5,841, “Norton, Brandon.”

Tobias, Justin L; economics, from Purdue Doctoral Program, \$5,841, “Hudja, Stanton.”

Towns, Marcy H; chemistry, from National Science Foundation, \$250,272, “Investigating Student Understanding of Chemical Kinetics.”

Tsai, Su-Jung; Wells, Ellen M and **Zheng, Wei**; health sciences, from PHS-CDC National Institute of Occupational Safety and Health, \$78,364, “Occupational Safety and Health Training Grant.”

Tung, Wen-Wen; earth & atmospheric sciences, from Ross Graduate Fellowship/Assistantship, \$28,505, “Wang, Xinyue.”

Tung, Wen-Wen; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$20,189, “Bowers, Matthew C.”

Turco, Ronald F and **Nies, Loring F**; agriculture — administration, civil engineering, from Indiana Finance Authority, \$74,696, “An Assessment of Indianas Current and Future Irrigation Water Needs.” (a Discovery Park award — Global Sustainability)

Underwood-Gregg, Diana L; Higgason, Melissa J and **Kraft, Roger L**; mathematics, computer science & statistics — Calumet campus, school of education — Calumet campus, from Indiana Department of Education, \$97,516, “Supporting Inquiry in Mathematics and Science via Simulations (Simsvsims).”

Vacca, Andrea; agricultural & biological engineering, from Bosch (Robert) GMBH, \$52,165, "Optimal Design of a Fuel Injection Internal Gear Ring Pump Aimed to Improve Overall Gerotor Pump Efficiency."

Van Pelt, Crystal D; field extension educators, from Steuben Cty Community Foundation, \$725, "Annie's Project."

Vanfossen, Phillip J; curriculum & instruction, from David M. Knox Endowment, \$20,189, "Castillo, Fernando."

Vanfossen, Phillip J; curriculum & instruction, from Purdue University F N Andrews Fellowship, \$29,908, "Max, Brooke."

Vanfossen, Phillip J; curriculum & instruction, from Winifred B. Bilsland Endowment, \$20,189, "Cortes Santiago, Ileana."

Vanfossen, Phillip J; curriculum & instruction, from Purdue University F N Andrews Fellowship, \$26,482, "Lancette, Steven."

Vanfossen, Phillip J; curriculum & instruction, from Ross Graduate Fellowship/Assistantship, \$29,908, "Chun, Hwayoung."

Vanfossen, Phillip J; curriculum & instruction, from Ross Graduate Fellowship/Assistantship, \$29,908, "Bloome, Lane."

Vanfossen, Phillip J; curriculum & instruction, from Ross Graduate Fellowship/Assistantship, \$29,908, "Crago, Sarah."

Vanfossen, Phillip J; curriculum & instruction, from Purdue Doctoral Program, \$23,067, "Randolph, Anthony."

Vemulapalli, Tracy H; comparative pathology, from Akina, Inc. Business & Technology Center, \$44,179, "Drug Delivery System to Provide Local, Long-Term, Therapeutic Neuromuscular Blockade."

Vitek, Olga; statistics, from Northeastern University, \$55,959, "Faculty Early Career Development (CAREER): Sparse-Sampling Inference for Functional Proteomics, Metabolomics and Ionomics."

Watts, Val J; medicinal chemistry & molecular pharmacology, from Purdue Doctoral Program, \$19,799, "Elder, Sarah."

Watts, Val J; medicinal chemistry & molecular pharmacology, from Lynn Interdisciplinary Graduate Fellowship, \$28,505, "Ghanbarpour Ghouchani, Ahmadreza."

Watts, Val J; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship/Assistantship, \$31,643, "Krabill, Aaron."

Watts, Val J; medicinal chemistry & molecular pharmacology, from Purdue University F N Andrews Fellowship, \$30,133, "Cassell, Robert."

Weaver, Connie M; foods & nutrition, from Lynn Interdisciplinary Graduate Fellowship, \$29,523, "Beetch, Megan."

Webb, Kevin J and Xu, Xianfan; electrical & computer engineering, mechanical engineering, from National Science Foundation, \$116,799, "EAGER: Enhanced Optical Pressure from Nanostructured Metal Films."

Wild, Robert E; chemistry, from Purdue University F N Andrews Fellowship, \$28,586, "Oueis, Yanal."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Xie, Zhuoer."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Morales Padilla, Moises."

Wild, Robert E; chemistry, from Winifred B. Bilsland Endowment, \$19,462, "Anderson, Nickolas H."

Wild, Robert E; chemistry, from Purdue University F N Andrews Fellowship, \$28,586, "Manheim, Jeremy Marc."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,486, "Snaider, Jordan."

Wild, Robert E; chemistry, from Lynn Interdisciplinary Graduate Fellowship, \$28,586, "Fine, Jonathan."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Biechele-Speziale, John A."

Wild, Robert E; chemistry, from Purdue University F N Andrews Fellowship, \$16,133, "Tibabuzopferdomo, Andres."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Raghaven, Adharsh."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Bupp, Charles."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Tuvilla, Marveen."

Wild, Robert E; chemistry, from Purdue Doctoral Program, \$30,079, "Hudson, Brianna."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Basu, Amartyo."

Wild, Robert E; chemistry, from Winifred B. Bilsland Endowment, \$20,189, "Pilo, Alice L."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Ulcickas, James."

Wild, Robert E; chemistry, from Ross Graduate Fellowship/Assistantship, \$28,586, "Viquez-Rojas, Claudia."

Wise, Kiersten A; botany & plant pathology, from Indiana Corn Marketing Council, \$15,753, "Understanding the Impact of Late Fungicides Applications on Northern Corn Leaf Blight."

Wu, Yutian; earth & atmospheric sciences, from Purdue University F N Andrews Fellowship, \$28,175, "00274-33185."

Wulle, Bernard W; aviation technology, from Coalition Salute Americas Hero, \$6,500, "Coalition to Salute Americas Heroes."

Xin, Yan Ping; Kastberg, Signe E and Chen, Yingjie; educational studies, curriculum & instruction, computer graphics technology, from National Science Foundation, \$337,341, "Conceptual Model-Based Problem Solving (COMPS): A Response to Intervention Program for Students with Learning Difficulties in Mathematics."

Yang, Baijian; computer & information technology, from Intel Corporation, \$25,000, "Intel."

Yang, Baijian; Chen, Yingjie; Dark, Melissa J and Magana Deleon, Alejandra J; computer & information technology, computer graphics technology, from National Science Foundation, \$299,376, "SATC-Education: Eager Enhancing Cybersecurity Education through a Representational Fluency Model."

Yao, Bin; mechanical engineering, from Zhejiang Guozi Robot Technology, \$100,000, "High-Efficiency and Smooth Intelligent Coordinated Motion Control of Mobile Robots with Multiple Actuators."

Ye, Peide; electrical & computer engineering, from LAM Research Corporation, \$25,000, "LAM Gift." (a Discovery Park award — Birck Nanotechnology Center)

Young, Bryan G; botany & plant pathology, from Precision Laboratories Inc., \$4,025, "Multi-Sponsored Gift Account."

Yuan, Chongli and Liu, Julie C; chemical engineering, from National Science Foundation, \$300,000, "Engineering Protein Sensors to Detect Epigenetic Changes During Science, Technology, Engineering & Mathematics (STEM) Cell Culture."

Zaspel, Jennifer M and Nearn, Eugenio H; entomology, from Animal Plant Health Inspection Service, \$95,163, “Longicorn ID 4: a Digital Identification Tool for Diagnosing Cerambycid Beetles.”

Zhang, Hao; statistics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Chen, Yan.”

Zhang, Hao; statistics, from Ross Graduate Fellowship/Assistantship, \$18,257, “Chakraborty, Prakash.”

Zhang, Hao; statistics, from Purdue University F N Andrews Fellowship, \$18,257, “Maxwell, Lorena.”

Zhang, Hao; statistics, from International Plant Nutrition Institute, \$5,000, “International Plant Nutrition Institute.”

Zhang, Hao; statistics, from Winifred B. Bilsland Endowment, \$20,189, “Pan, Chao.”

Zhang, Hao; statistics, from Purdue Doctoral Program, \$32,808, “Coca, Maria C.”

Zhang, Hao; statistics, from Purdue University F N Andrews Fellowship, \$28,586, “Goossens, Emery T.”

Zhang, Hao; statistics, from Purdue Doctoral Program, \$19,698, “Williams, Dominique.”

Zhang, Song; mechanical engineering, from Iowa State University, \$48,764, “Portable High-Speed 3-D Sensing and Imaging for Harsh Agricultural Applications.”

Zhou, Chenn Q and Wu, Bin; Center for Innovation through Visualization & Simulation, from Alcoa Inc, \$52,835, “Structural and Thermal Analysis of Alumina Refinery Ductwork.”

Zhou, Chenn Q and Wu, Bin; research & graduate studies, Center for Innovation through Visualization & Simulation, from Livermore, Lawrence National Laboratory, \$124,877, “The Virtual Blast Furnace: an Integrated High Performance Computing Modeling, Simulation and Visualization Capability for Steel Manufacturing.”

Zhuang, Qianlai; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$8,503, “Jin, Zhenong.”

Zillich, Alan J and Weddle, Kellie Jones; pharmacy practice, from Indiana University Health, \$86,902, “Co-Funded Position with IU Health.”

Zillich, Alan J; pharmacy practice, from Ross Graduate Fellowship/Assistantship, \$31,643, “Huang, Chien-Yu.”

Zillich, Alan J; pharmacy practice, from Ross Graduate Fellowship/Assistantship, \$31,643, “Udayachalerm, Sariya.”

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

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