

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

August 2010

Abbott, Angela R; consumer & family sciences, from Crown Point Community Foundation, \$500, "Gift Letter - Crown Point Community Foundation, Inc."

Abel, Steven R; pharmacy practice, from American Foundation for Pharmaceutical Education, \$7,500, "10/11 AFPE Fellowship, "Kristin Villa."

Abel, Steven R; pharmacy practice, from American Foundation for Pharmaceutical Education, \$6,000, "10/11 AFPE Fellowship, "Nicholas Hagemeyer."

Adams, Douglas E; mechanical engineering, from Rolls-Royce, Inc., \$110,000, "Detection and Monitoring of Damage in Gear Drive Using Dynamic Torque Sensing."

Adams, Douglas E; mechanical engineering, from Metrolaser, Inc., \$77,050, "Subcontract Agreement PU03NP07 Probability of Detection Study for Wide Area Inspection of Composite Structural Material Using 3-D Scanning and Multi-Element Laser Vibrometry." (a Discovery Park award — Institute for Defense Initiatives)

Adams, Douglas E; mechanical engineering, from University of Florida, \$49,306, "Nonlinear Dynamic Characterization of the Coupled Structural Response of Mechanically Preloaded Bodies Using High Resolution Laser Velocimetry." (a Discovery Park award — Institute for Defense Initiatives)

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, \$60,000, "Danisco."

Agrawal, Rakesh; Gore, Jay P; Delgass, W Nicholas; Lucht, Robert P; Qiao, Li and Ribeiro, Fabio H; chemical engineering, mechanical engineering, aeronautics and astronautics, from Air Force Office of Scientific Research, \$795,443, "Experimental Studies of Coal and Biomass Fuel Synthesis and Flame Characterization for Aircraft Engines (Year 3)." (a Discovery Park award — Energy Center)

Agrawal, Rakesh; Venkatasubramanian, Venkat and Reklaitis, Gintaras V; chemical engineering, from U.S. Department of Energy, \$200,000, "New Design Methods and Algorithms for High Energy-Efficient and Low-Cost Distillation Processes Amendment 8." (a Discovery Park award — Discovery Park Administration)

Agrawal, Rakesh; chemical engineering, from U.S. Department of Education, \$131,265, "09/10 GAANN Fellowship - Energy Education in Chemical Engineering, Amendment 1." (a Discovery Park award — Energy Center)

Ahmed, Azza H and Ouzzani, Mourad; nursing, cyber center, from International Lactation Consultant Association, \$10,000, "Web-Based Breastfeeding Monitoring: Feasibility and Acceptability."

Ajuwon, Kolapo; animal sciences, from Danisco Animal Nutrition, \$20,000, "Research Gift Funds."

Anderson, William E; aeronautical & astronautical engineering, from University of Maryland, \$72,984, "Studies and Support of Project Constellation, Modification P."

Anderson, William E and Matsutomi, Yu; aeronautical & astronautical engineering, from Siemens Corporate Research Inc., \$65,000, "Testing Combustion Response of Secondary Fuel Injection to Acoustic Oscillations - Extension."

Anderson, William E; Son, Steven F and Merkle, Charles L; aeronautical & astronautical engineering, mechanical engineering, from Air Force Office of Scientific Research, \$240,000, "Fuel Chemistry and Combustion Distribution Effects on Rocket Engine Combustion Stability."

Applegate, Todd J; animal sciences, from Biomin America Inc, \$20,000, "Pyhtase in Poultry."

Bagchi, Saurabh; electrical & computer engineering, from National Science Foundation, \$10,000, "Travel Grants for Attending the 29th IEEE Symposium on Reliable Distributed Systems (SRDS)."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National GEM Consortium, \$4,167, "10/11 Fellowships GEM Engineering for Derrick Moore."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National GEM Consortium, \$4,167, "10/11 Fellowships GEM Engineering for Kenie Moses."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Vietnam International Education Development, \$27,000, "10/11 VIED Fellowship for Lan Truong."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Vietnam Education Foundation, \$28,000, "10/11 VEF Fellowship - Nguyen Ngoc Duong."

Balakrishnan, Venkataramanan; electrical & computer engineering, from IBM, \$30,000, "10/11 IBM Fellowship for Niladri Mojumder."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Vietnam Education Foundation, \$28,000, "10/11 VEF Fellowship for Minh Nguyen."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National GEM Consortium, \$4,167, "10/11 Fellowships GEM Engineering for Alen Jones."

Baldwin, Michael E; earth & atmospheric sciences, from University Corp. for Atmospheric Research, \$11,991, "Incorporation of Forcing Characteristics into a Prediction System for High-Impact Convective Precipitation Events."

Barker, Eric L; medicinal chemistry & molecular pharmacology, from Purdue Doctoral Program, \$19,920, "Marie Kelleman."

Barker, Eric L and Watts, Val J; medicinal chemistry & molecular pharmacology, from Ara Parseghian Medical Research Foundation, \$20,000, "Development of Phenotypic Screens for Niemann-Pick Type C."

Barker, Eric L; medicinal chemistry & molecular pharmacology, from Purdue University F N Andrews Fellowship, \$21,255, "Mark Hinzman."

Bartlett, Edward L; biomedical engineering, from American Federation for Aging Research, \$73,500, "A Comparison of Auditory Temporal Processing Assessed Non-Invasively in Aged vs. Young Rats."

Bayley, William G; chemistry, from Delphi Community School Corporation, \$1,000, "Instrument Van Project."

Beaudoin, Stephen P; chemical engineering, from U.S. Department of Education, \$262,530, "09/10,10/11 Graduate Assistance in Areas of National Need (GAANN) Program."

Beaudoin, Stephen P; chemical engineering, from National Science Foundation, \$8,000, "REU Supplement: GOALI-Particle Adhesion in Semiconductor Water Cleaning."

Bell, Steven R; mathematics, from National Science Foundation, \$236,000, “New Approaches to Potential Theory and Conformal Mapping.”

Benner, Stacy L; field extension educators, from Brown County Local Coordinating Council, \$1,500, “Youth Tobacco Education/Prevention.”

Benner, Stacy L; field extension educators, from Brown County Foundation, Inc., \$300, “Professor Popcorn and Other Programs in Brown County.”

Bergmann, Michael A and Kain, Patrick P; philosophy, from John Templeton Foundation, \$357,597, “Knowing in Religion and Morality.”

Bertoline, Gary R; technology - administration, from U.S. Department of Education, \$103,818, “Dual MS Degrees Focused on Technology, Innovation & Sustainability, Modification 1.”

Bigelow, Cale A; agronomy, from National Turfgrass Evaluation Program, \$2,400, “2004 National Perennial Ryegrass Test (Pr0401).”

Bigelow, Cale A; agronomy, from Bell Aquaculture LLC, \$2,000, “Putting Greens Research.”

Blaisdell, Gregory A and Lyrantzis, Anastasios S; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$10,000, “Computations of Supersonic Jet Plumes and Impingement of Inclined Surfaces.”

Borch, Richard F; medicinal chemistry & molecular pharmacology, from American Foundation for Pharmaceutical Education, \$6,000, “AFPE Fellowship, David Anderson.”

Boushey, Carol J; Delp, Edward J; Ebert, David S and Okos, Martin R; foods & nutrition, electrical & computer engineering, agricultural & biological engineering, from PHS-NIH National Cancer Institute, \$133,410, “Improving Dietary Assessment Methods Using the Cell Phone and Digital Imaging.”

Boushey, Carol J; Delp, Edward J; Ebert, David S and Okos, Martin R; foods & nutrition, electrical & computer engineering, agricultural & biological engineering, from PHS-NIH National Cancer Institute, \$428,189, “Improving Dietary Assessment Methods Using the Cell Phone and Digital Imaging.”

Boushey, Carol J; foods & nutrition, from Baylor College of Medicine, \$7,567, “An Interactive Web-Based Program to Improve Food and Activity Choices of High School Students.”

Bowen, Brenda B; earth & atmospheric sciences, from Indiana Geological Survey, \$58,000, “Petrological and Petrophysical Characterization of the Mount Simon Sandstone and Eau Claire Formation in Support of Phase III Sequestration Evaluation.”

Braile, Lawrence W; earth & atmospheric sciences, from Society of Exploration Geophysicists, \$20,000, “Support for SAGE (Summer of Applied Geophysical Experience) 2010.”

Brightman, Andrew O; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$13,806, “Joint PhD Program for Graduate Support, Khanh Nguyen.”

Brown, Paul B; forestry and natural resources, from University of Illinois, \$10,000, “Food Webs in the 21st Century: Exploration of New Enabling Technologies to Understand and Predict Changes in Aquatic Food Webs and Impacts on Ecosystems.” (a Discovery Park award — Bindley Bioscience Center)

Bryan, Lynn A and Giordano, Nicholas J; curriculum and instruction, physics, from Northwestern University, \$67,287, “NCLT: A Center to Develop Nanoscale Science and Engineering Educators with Leadership Capabilities.” (a Discovery Park award — Discovery Learning Center)

Buck, Charles R; Bindley Bioscience Center, from Kylin Therapeutics, \$3,750, “Corporate Membership for Tata Chemicals Ltd., Innovation Centre with the Bindley Bioscience Center.” (a Discovery Park award — Bindley Bioscience Center)

Buczowski, Grzegorz A; entomology, from Rockwell Labs Ltd, \$1,200, “Multi-Sponsored.”

Bugel, Talia A; international language & culture - Fort Wayne campus, from Indiana Campus Compact, \$2,250, “Looking in the Multilingual/Multicultural Mirror: Spanish Translation at Abbott Elementary School in Fort Wayne, Indiana.”

Bullock, Darcy M; civil engineering, from Sensys Networks Inc, \$25,367, “Evaluation of Probe Vehicle Travel Time Using Commercial Wireless Magnetometer Detection Technology.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$10,000, “Apt Maintenance and Operations SPR-2351.”

Byrn, Stephen R; industrial & physical pharmacy, from Knobbe, Marens, Olson & Bear, LLP, \$11,000, “Multi-Sponsored - Knobbe.”

Calais, Eric; earth & atmospheric sciences, from National Science Foundation, \$11,725, “Geodetic and Geologic Field Response to the January 12, 2010 Mw 7.0 Haiti Earthquake-Supplemental Request.”

Caldwell, Barrett S; industrial engineering, from National Aeronautics and Space Administration, \$575,000, “Indiana Space Grant Consortium Five Year Renewal Proposal for Activity Years 20-24 (March 15, 2010 - March 14, 2015).”

Caldwell, Barrett S; industrial engineering, from Taylor University, \$1,000, “INSGC Affiliate Dues.”

Camberato, James J; Nielsen, Robert L and Joern, Brad C; agronomy, from Indiana Corn Marketing Council, \$64,999, “Fine-Tuning Nitrogen Recommendations to Increase Profitability and Reduce Environmental Impact.”

Campbell, Wesley L; science bound, from United Student Aid Funds, Inc, \$30,000, “Science Bound USA Parents Program FY 11.”

Carpita, Nicholas C; Mosier, Nathan S and Csonka, Leslie N; botany & plant pathology, agricultural & biological engineering, biological sciences, from Trask Trust Fund, \$50,000, “Photosynthetic Recycling of CO₂ to Feedstock for Biofuel Production.”

Carroll, Natalie J; youth development & agricultural education, from National 4-H Council, \$15,000, “2010 Indiana National Youth Science Day.”

Caruthers, James M; Adams, Douglas E and Sadedghi, Farshid; chemical engineering, mechanical engineering, from Technology Service Corporation, \$35,000, “Advanced Real Time Battery Monitoring and Management System.” (a Discovery Park award — Institute for Defense Initiatives)

Chandrasekar, Srinivasan and Lescun, Timothy B; industrial engineering, veterinary clinical science, from National Science Foundation, \$176,642, “Collaborative Research: Controlling Surface Damage in Machining of Hierarchical Biological Composites.”

Chang, Fen-Lei; medical education - Fort Wayne campus, from Indiana University, \$4,000, “FY 2010-2011 IUSM Fort Wayne IUF Miscellaneous Expenses Fund.”

Chang, Fen-Lei F; medical education - Fort Wayne campus, from Indiana University School of Medicine, \$100,000, “Expansion of Medical School Education into Full Four Year Program.”

Chen, Yong P; physics, from National Institute of Standards & Technology, \$110,000, “Quantum Electronic Metrology in Graphene Nanostructures, Amendment 1.”

Chen, Yong P; physics, from Charles F Day & Association LLC, \$3,000, “Support for Graphene Based Solar Cells.”

Chen, Yong P and Ye, Peide; physics, electrical and computer engineering, from National Institute of Standards & Technology, \$40,078, “Quantum Electronic Metrology in Graphene Nanostructures.” (a Discovery Park award — Birck Nanotechnology Center)

Chester, Julia A; psychological sciences, from PHS-NIH National Institute on Alcohol Abuse, \$230,305, “Anxiety and Alcohol Drinking in a Genetic Animal Model of Alcoholism.”

Childress, Michael O; veterinary clinical science, from National Institutes of Health, \$10,515, “Preclinical Comparison of 3 Indenoisoquinolines Candidates to Tumor-Bearing Dogs: Pilot Study of Topotecan in Dogs with Lymphoma.”

Choi, Kyoung-Shin; chemistry, from U.S. Department of Energy, \$97,480, “Construction of High-Performance, Low-Cost Photoelectrodes with Controlled Polycrystalline Architectures, Modification 6.”

Christmon, Kenneth C; diversity & multicultural affairs - Fort Wayne campus, from Indiana Department of Workforce Development, \$9,083, "Career and Technical Education Student Services."

Christmon, Kenneth C; diversity & multicultural affairs - Fort Wayne campus, from Indiana Department of Workforce Development, \$196,716, "Career and Technical Education Student Services."

Claxton, Laura J; health & kinesiology, from Kinley Trust, \$19,214, "Individual Differences in the Development of Executive Functioning and Motor Control in Preschool-Age Children."

Connors, Susan E; Couetil, Laurent L; Furdek, Jonathan M and Preston, Gregory; marketing, human resources & management - Calumet campus, veterinary clinical science, finance & economics - Calumet campus, agricultural statistics, from Quarter Horse Racing Association of IN, \$6,000, "Equine Survey Project."

Constable, Peter D; veterinary clinical science, from VCA Antech Inc, \$17,318, "Radiology Residency Support."

Cooks, Robert G; chemistry, from Thermo Fisher Scientific, \$50,000, "Thermo Fisher Voluntary Support Account."

Cooks, Robert G; chemistry, from Oak Ridge Institute for Science & Education, \$10,500, "Joshua Wiley 10/11 Orise Fellowship."

Cooper, James A; electrical & computer engineering, from II-VI Foundation, \$49,643, "II-VI Foundation Research Gift."

Cooper, James A and Moon, Robert J; Birck Nanotechnology Center, from U.S. Forest Service, \$24,515, "Research on Nanotechnology Related to Wood and Wood-Based Materials." (a Discovery Park award — Birck Nanotechnology Center)

Cooper, James A; electrical and computer engineering, from University of Notre Dame, \$497,800, "State of Indiana Funded Activities for Midwest Institute of Nanoelectronics Discovery (MIND), Amendment 1." (a Discovery Park award — Birck Nanotechnology Center)

Cordes, Samuel M; Office of Engagement, from Indiana Economic Development Corporation, \$20,177, "Southeastern Small Business Development Center CY 2010 - July-Dec CDAG Funding."

Cordes, Samuel M; agriculture - administration, from Maine Department of Labor, \$3,000, "Concept of Strategic Doing - State of Maine."

Cordes, Samuel M; agriculture - administration, from Indiana Office of Community & Rural Affairs, \$100,000, "OCRA FY 11, Amendment #2."

Cordes, Samuel M; Office of Engagement, from Michigan State University, \$15,000, "Improving Practice and Collaboration to Aid Distressed Rural Communities."

Cosier, Richard A; management, from Foundation Center-Cleveland, \$4,465, "10/11 Krannert School of Managements Graduate Program to Provide Scholarships to First-Year Students Based on Academic Merit."

Davis, Kauline S; Amass, Sandra F; Green, Henry W and Reed, Willie M; veterinary medicine - administration, veterinary clinical science, from National Institute of Food & Agriculture, \$136,000, "Multicultural Scholars Program at the Purdue University."

Davis, Susan B; Office of Engagement, from Indiana Economic Development Corporation, \$20,272, "Hoosier Heartland Small Business Development Center CY 2010 - July-Dec CDAG Funding."

De Hoop, Maarten V; mathematics, from Conocophillips, \$80,000, "Geo-Mathematical Imaging Group (GMIG) Consortium."

De Hoop, Maarten V; mathematics, from Total E & P USA Inc, \$80,000, "Geo-Mathematical Imaging Group (GMIG) Consortium."

DeLaurentis, Daniel A; aeronautical & astronautical engineering, from George Mason University, \$125,000, "Airportal Metroplex Integration (AMI) Research Focus Area: Metroplex Optimization Model Expansion and Analysis."

DeLaurentis, Daniel A; Bagchi, Saurabh and Heister, Stephen D; aeronautical & astronautical engineering, electrical & computer engineering, from Missile Defense Agency, \$1,250,972, "An Agent-Based Concept for an Enhanced C2BMC Architecture."

DeWitt, William E; electrical & computer engineering technology, from Occupational Safety & Health Administration, \$3,948, "OSHA 1230 Accident Investigation Course."

DeWoody, J. Andrew; forestry & natural resources, from University of Illinois, \$9,975, "Genomic Resources in Lake Sturgeon (*Acipenser fulvescens*)."

Diefes-Dux, Heidi A; Brophy, Sean; Cardella, Monica E; Strobel, Johannes; Capobianco, Brenda M and Reed-Rhoads, Teri; engineering education, engineering administration engineering experiment, from National Science Foundation, \$657,939, "R&D: Quality Cyber-Enabled, Engineering Education Professional Development to Support Teacher Change, Amendment 2."

Dimmett, Larry J; field extension educators, from Spencer County Substance Abuse Council, \$597, "Project Lead Spencer County."

Dobbs-Oates, Jennifer E; child development & family studies, from Kinley Trust, \$20,000, "Do Preschool Teachers, Beliefs Predict Their Students, Mathematics Learning?."

Duchatelet, Martine; management - Calumet campus, from Indiana Economic Development Corporation, \$27,578, "Northeast Indiana Small Business Development Center (CDAG Funding)."

Duffy, Vincent G; industrial engineering, from Vietnam Education Foundation, \$28,000, "VEF Fellow 10/11 N Nguyen-Vang-Phuc."

Duffy, Vincent G; industrial engineering, from Whirlpool Corp, \$9,594, "Whirlpool- Digital Human Modeling Virtual Design Assessment."

Dunning, John B; forestry & natural resources, from Foreign Affairs & International Trade Canada, \$180, "Increase of Award for Grant# 204609."

Dydak, Ulrike; health sciences, from PHS-NIH National Institute of Environmental Health Science, \$181,905, "Effect of Manganese Exposure on GABA and Blutamate in Human Brains by MRS."

Dyke, Shirley J and Ramirez, Julio A; civil engineering, from National Science Foundation, \$193,712, "Deployment and Integration of Instructional Shake Tables Using the NEES Cyberinfrastructure."

Ebert, David S; electrical and computer engineering from U.S. Department of Homeland Security, \$102,000, "Vaccine SP10: Tulsa University: Physical Extraction and Reconstruction of Evidence from Mobile Phones Using JTAG Test Ports." (a Discovery Park award — Purdue University Regional Visualization & Analytics Center)

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$500,000, "Vaccine SP 9: Rochester Institute of Technology: Raster - Remote Airborne Sensing Technology for Emergency Response." (a Discovery Park award — Purdue University Regional Visualization & Analytics Center)

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$349,690, "Vaccine SP 6: San Antonio: Technical Contract/Technical Support for the Cyber Security Research and Development Program." (a Discovery Park award — Discovery Park Administration)

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$899,866, "Vaccine SP 5: Virtual USA (vUSAS) Technical Team Pilot Implementation Team (PIT)." (a Discovery Park award — Purdue University Regional Visualization & Analytics Center)

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$100,000, "Vaccine SP 7: User Adoption Learning Tool." (a Discovery Park award — Purdue University Regional Visualization & Analytics Center)

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$150,000, "Vaccine SP 12: San Antonio: Technical Contract/Technical Support for the Cyber Security Research and Development Program." (a Discovery Park award — Purdue University Regional Visualization & Analytics Center)

Eisenhauer, Mary Jane; education - North Central campus, from Indiana Campus Compact, \$3,750, "Service Learning in Early Childhood Education: Making Waves."

Ejeta, Gebisa; agronomy, from Agricultural Research Service, \$15,000, “A Proposal to Evaluate and Release Converted African Sorghum Landraces with Traits of Interest to the U.S. Sorghum Industry.”

Fentiman, Audeen W; nuclear engineering, from Purdue Doctoral Program, \$17,239, “Melissa Van Kleec.”

Fentiman, Audeen W; engineering administration engineering experiment, from U.S. Department of Energy, \$155,000, “W Fullmar, J Boguski 09/10, C Brooks 10/11 Fellows - Cooperative Agreement to Host DOE Fellows and Scholars, Modification 2.”

Ferraro, Kenneth F; **Mroczek, Daniel K** and **Mustillo, Sarah A**; sociology, child development & family studies, from PHS-NIH National Institute on Aging, \$262,786, “Enduring Effects of Early Adversity on Adult Health?”

Ferruzzi, Mario; food science, from Mead Johnson & Company, \$15,000, “Profile and Bioaccessibility of Phytonutrients from Human Milk, Supplemental Project.”

Finke, Linda M; health & human services - Fort Wayne campus, from Indiana Family Health Council, \$121,314, “Lafayette Street Family Health Clinic - Title X.”

Fisher, Timothy; mechanical engineering, from Universal Technology Corporation, \$17,000, “Interface Thermal Management for Thermal Protection Systems.” (a Discovery Park award — Birck Nanotechnology Center)

Fleet, James C and **Zhang, Min**; foods & nutrition, statistics, from National Institutes of Health, \$375,407, “Diet by Gene Interactions Affecting Calcium and Bone Metabolism.”

Francisco, Padmapriya; management, from Edventure Partners, \$500, “Priya Francisco Edventure Partners.”

Frankenberger, Jane R; agricultural & biological engineering, from Lynn Interdisciplinary Grad. Fellowship, \$16,988, “Caitlin Grady.”

Fricker, Jon D and **McNamara, Kevin T**; civil engineering, agricultural economics, from Indiana Department of Transportation, \$99,916, “Socio-Economic Forecasting, SPR-3405.”

Garfinkel, Arthur F; physics, from Argonne National Laboratory, \$41,953, “Graduate Student Services, Laura Boon.”

Garimella, Suresh V; mechanical engineering, from Office of Naval Research, \$14,000, “Microscale Void Fraction Measurement and Two-Phase Flow Regime Transition Models.”

Garimella, Suresh V; mechanical engineering, from Aavid Thermalloy, \$7,500, “CTRC Consortium.”

Garner, Joseph P and **Otto, Kevin J**; animal sciences, biological sciences, from Showalter Trust, \$75,000, “A Novel Rat Model of Pre-Diagnosis Cognitive Systems in Parkinsons Disease.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “Yu Ming Yang - a Study of Wavelet Approaches to the Detection of Ionospheric Disturbances (2010 NESSF Renewal Progress Report).”

Gecas, Viktor; sociology, from Purdue Doctoral Program, \$238, “Nicholas Vargas.”

Gerber, Corey K; agronomy, from Pioneer Hi-Bred International, Inc., \$2,000, “DTC Summer Workshop - Pioneer Hi-Bred International, Inc..”

Gerber, Corey K; agronomy, from Indiana Seed Trade Association, \$4,000, “DTC Summer Workshop - Indiana Seed Trade Association.”

Ghosh, Arun K; chemistry, from PHS-NIH National Institute of General Medical Science, \$340,080, “Design and Synthesis of Nonpeptide Protease Inhibitors.”

Grant, Richard H; agronomy, from MACTEC Engineering and Consulting, Inc., \$8,050, “Dry Deposition Monitoring at Vincennes, Indiana.”

Grant, Richard H; agronomy, from MACTEC Engineering and Consulting, Inc., \$9,660, “Dry Deposition Monitoring at Vincennes, Indiana.”

Green, Henry W; veterinary clinical science, from David M. Knox Endowment, \$19,173, “Aliya N Magee.”

Gurney, Kevin R; earth & atmospheric sciences, from U.S. Department of Energy, \$57,198, “Impacts of High Resolution Extreme Events on US Energy Demand and CO2 Emissions in the 21st Century.”

Gurney, Kevin R; agronomy, from Frontier Research Center for Global Change, \$33,000, “Locating and Quantifying CO2 Emissions from Large Powerplants in China.”

Hassanein, Ahmed; nuclear engineering, from Purdue Doctoral Program, \$17,239, “Jessica Mintz.”

Heinz, Michael G; speech language & hearing sciences, from National Institutes of Health, \$398,180, “Effects of Sensorineural Hearing Loss on Robust Speech Coding.”

Hertel, Thomas W; agricultural economics, from U.S. International Trade Commission, \$19,650, “GTAP Membership.”

Hester, Patricia Y and **Garner, Joseph P**; animal sciences, from Iowa State University, \$36,900, “Osteoporosis in Egg Laying Strains of Chickens: Early Pre-Pubertal Exposure to Mechanical Loading.”

Hirleman, E D; mechanical engineering, from Krell Institute, \$13,166, “Aaron Sisto 10/11 DOE-CSG Fellowship.”

Hirleman, E D; mechanical engineering, from Vietnam Education Foundation, \$28,000, “10/11 Dat Duc Le Vietnam Education Foundation Fellowship.”

Hirleman, E D; mechanical engineering, from ASHRAE, Inc., \$40,000, “ASHRAE Grant in Aid.”

Hirst, Peter M; horticulture & landscape architecture, from International Fruit Tree Association, \$400, “Research Projects for Peter Hirst.”

Holland, Jeffrey D; entomology, from Animal Plant Health Inspection Service, \$79,500, “DNA Barcoding for Americas Least Wanted Wood-Borers.”

Holland, Jeffrey D; entomology, from Egyptian Cultural and Educational Bureau, \$26,417, “10/11 Hossam El Dien Abdel Moneim Egyptian Cultural and Education Bureau Fellowship.”

Howe, Katherine M; botany & plant pathology, from Warren County Soil & Water, \$50, “Katherine Howe Gift Fund.”

Howe, Katherine M; botany & plant pathology, from Mary L Kuppe, \$30, “Katherine Howe Gift Fund.”

Hudson, Karen A; agronomy, from Agricultural Research Service, \$12,100, “Acquisition of Good and Services.”

Hutcheson, John S; Office of Engagement, from Muhlenberg Industrial Development Corp, \$322, “Multi-Sponsored Account- PCRD, Ed Morrison.”

Hutcheson, John S; Office of Engagement, from Florida Chamber Foundation, \$505, “Multi-Sponsored Account- Purdue Center for Regional Development, Ed Morrison.”

Hutcheson, John S; Office of Engagement, from Wisconsin Rural Partners Inc, \$1,644, “Purdue Center for Regional Development, Ed Morrison.”

Hutcheson, John S; Office of Engagement, from The Chamber of Commerce of Southwest Indiana, \$2,861, “Purdue Center for Regional Development, Ed Morrison.”

Hutzel, William J; mechanical engineering technology, from ASHRAE, Inc., \$10,000, “ASHRAE- Kevin Rogers.”

Hwang, Inseok; aeronautical & astronautical engineering, from Sypris Electronics, \$43,859, “A Cyber-Secure Autopilot Architecture for Unmanned Systems.”

Ileleji, Klein; agricultural & biological engineering, from Archer Daniels Midland Company, \$2,000, “Multi-Sponsored Gift Account.”

Ileleji, Klein; **Ahiablame, Laurent M** and **Lumkes, John H**; agricultural & biological engineering, from Environmental Protection Agency, \$10,000, “Community Power from Small Hydro Power Systems.”

Irudayaraj, Joseph M; agricultural & biological engineering, from Deere & Company, \$2,000, “Senior Design Class ABE 485.”

Ishii, Mamoru and **Hibiki, Takashi**; nuclear engineering, from Nuclear Regulatory Commission, \$118,707, “Suppression Pool Void Distribution During Blowdown.”

Ivantysynova, Monika; Lumkes, John H; Martini, Ashlie M and Vacca, Andrea; agricultural & biological engineering, mechanical engineering, from University of Minnesota, \$85,000, "Engineering Research Center (ERC) for Compact and Efficient Fluid Power Amendment 10." (a Discovery Park award — Energy Center)

Ivantysynova, Monika; agricultural & biological engineering, from Liebherr Machines, \$64,942, "Modeling and Analysis of Swash Plate Type Axial Piston Pump Piston/Cylinder and Slippers/Swash Plate Interface."

Jackson, Scott A; agronomy, from National Science Foundation, \$262,228, "IPA - Scott Jackson."

Jafvert, Chad T; civil engineering, from University of Illinois at Chicago, \$10,000, "Nutrient Fluxes in Tile Drains and Ditches Draining Midwestern Agricultural Fields Fertilized with Manure: Interactions Between Hydrology, Biogeochemistry, and Management Practices."

Jamieson, Leah H; engineering administration engineering experiment, from Sandia National Laboratories, \$25,000, "10/11 James Fleetwood Sandia National Laboratories/Purdue University Excellence in Science and Engineering Research Program."

Jamieson, Leah H; engineering administration engineering experiment, from Sandia National Laboratories, \$25,000, "10/11 John Watson Sandia National Laboratories/Purdue University Excellence in Science and Engineering Research Program."

Johnson, William G; botany & plant pathology, from Gowan Company, \$8,300, "Weed Research."

Johnson, William G; botany & plant pathology, from Valent U.S.A. Corporation, \$9,000, "Weed Research."

Johnson, William G; botany & plant pathology, from BASF Corporation, \$26,850, "Weed Research."

Johnson, William G; botany & plant pathology, from Bayer CropScience LP (Environmental Science), \$29,075, "Weed Research."

Joly, Robert J; horticulture & landscape architecture, from National Institute of Food & Agriculture, \$218,707, "Specialty Crops Research, Extension, and Teaching Center at Southwest Purdue Agricultural Center."

Kak, Avinash C; electrical & computer engineering, from Elsevier Inc., \$3,888, "Editorship of Our Journal, Cvqip: Image Understand."

Keener, Kevin M; food science, from Clabber Girl, \$10,000, "Evaluation of Three Formulations of Innovafray in a Benchtop Oil Immersion Fryer."

Kelly, Brian C; sociology, from PHS-NIH National Institute on Drug Abuse, \$212,357, "Community-Based Study of Methamphetamine Use & HIV Risk in China."

Key, Nicole L; mechanical engineering, from Rolls-Royce, Inc., \$20,000, "Proposal for Axia Three Stage I Compressor Performance Research for Rolls Royce."

Koch, Andrew K; Student Access, Transition, and Success programs, from Office of Twenty-First Century Scholars - State of Indiana, \$3,000, "Office of Twenty-First Century Scholars West Central Indiana Scholars Support Program, \$3,000 Increase."

Kovach, Ronald J and Reason, Jacqueline P; university division - Calumet campus, from Indiana Department of Workforce Development, \$93,057, "Perkins 2010-2011."

Krane, Matthew J; materials engineering, from Roberto Rocca Education Program, \$15,000, "Enrique Escobar De Obaldia 10/11 Roberto Rocca Education Program (RREP) Fellowship."

Krupke, Christian H; entomology, from Bayer CropScience LP (Environmental Science), \$8,500, "Krupke - Entomology - Research."

Kuhn, Richard J; Jiang, Wen and Rossmann, Michael G; biological sciences, from National Institutes of Health, \$1,962,284, "Structure-Function Studies of Alpha- and Flaviviruses."

Labi, Samuel and Sinha, Kumares C; civil engineering, from Indiana Department of Transportation, \$200,000, "Cost Allocation Study for Updating Indiana Truck Permit Policies, SPR-3502."

Ladisch, Michael R and Mosier, Nathan S; agricultural & biological engineering, from Mascoma Corporation, \$111,851, "Characterization of Biomass Materials."

Latif, Niaz; Fathizadeh, Masoud; Hossain, Akram; Neff, Gregory P and Zahraee, Mohammad A; technology - Calumet campus, engineering technology - Calumet campus, from National Science Foundation, \$613,862, "Meeting Workforce Needs for Mechatronics Technicians."

Leary, James F; basic medical science, from Christopher Columbus Fellowship Foundation, \$25,000, "Chairmen's Distinguished Life Scientist Award."

Leary, James F; basic medical science, from Korea Institute of Science & Technology, \$49,996, "Kist:Purdue Collaboration - Supplemental Fund." (a Discovery Park award — Bindley Bioscience Center)

Lee, Yi-Jen; mathematics, from National Science Foundation, \$158,000, "Floer Theory in Gauge Theory and Symplectic Geometry."

Li, Ninghui; computer science, from National Science Foundation, \$27,000, "CCS Workshops Organization Supplement."

Liceaga, Andrea M; Ballard, Tameshia S and Esters, Levon T; food science, youth development & agricultural education, from National Institute of Food & Agriculture, \$33,079, "Increasing Content Knowledge of High School Educators through a Continuing Education Course in Food Science."

Lister, Matthew L; physics, from Other, \$199,356, "The Mojave Program: Jet Kinematics of Gamma-Ray Blazars, Supplement 2."

Litster, James D; chemical engineering, from Novozymes North America Inc, \$20,000, "Novozymes Gift."

Longas, Maria O; chemistry & physics - Calumet campus, from Academy of Applied Science, \$2,600, "2010 Research and Engineering Apprenticeship Program."

Lucht, Robert P; mechanical engineering, from National Science Foundation, \$112,741, "High-Resolution Laser Diagnostics and Modeling of Single-Walled Carbon Nanotube Synthesis, Amendment 2."

Lundstrom, Mark S; electrical & computer engineering, from National Science Foundation, \$3,648,333, "Network for Computational Nanotechnology, Amendment 7."

Lyrantzis, Anastasios S; aeronautical & astronautical engineering, from U.S. Department of Education, \$218,775, "GAANN 09/10,10/11 Fellowships - an Interdisciplinary Fellowship Program for Computational Sciences and Engineering, Amendment 1."

Lyutikov, Maxim Y; physics, from National Aeronautics and Space Administration, \$80,000, "Resolving the Lorentz Factor Crisis in Blazars with Fermi."

MacDermid Wadsworth, Shelley; consumer & family sciences, from Science Applications International Corp., \$37,000, "Navy Family Diversity Project."

MacDermid Wadsworth, Shelley; consumer & family sciences, from Science Applications International Corp., \$70,000, "Navy Family Diversity Project."

Martyn, Raymond D; botany & plant pathology, from North Carolina State University, \$22,600, "Developing a Matrix for the Selection of Recovery Plans in the National Plant Disease Recovery System."

Mathur, Aditya P; computer science, from Google Inc, \$28,847, "10/11 Google PhD Fellowship, Lixia Liu."

Mattes, Richard D; foods & nutrition, from PHS-NIH National Institute Allergy Infectious Dis, \$85,066, "Interdisciplinary Training in Signals Controlling Ingestion and Obesity."

Mattson, Marifran; communication, from Indiana Campus Compact, \$3,750, "Partnering with the Mayor to Promote Motorcycle Safety in a University Community."

Maynard, Elizabeth T; horticulture & landscape architecture, from Centest Inc., \$100, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture & landscape architecture, from Rupp Seed Inc., \$2,400, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture & landscape architecture, from Red Gold, Inc., \$4,000, “Mid-America Food Processors Association.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Abbott & Cobb Inc., \$700, “Research for 1995 Vegetable Variety Trial Program.”

McCrary, Kenric A; continuing studies - Fort Wayne campus, from Indiana Economic Development Corporation, \$25,678, “Northeast Indiana Small Business Development Center (CDAG Funding).”

McCrary, Megan A; Mobley, Stacey L; Boushey, Carol J and Ferruzzi, Mario; foods & nutrition, food science, from National Institutes of Health, \$566,215, “Biomarkers of Dietary Variables Commonly Misreported.”

McCullough, Bobby G; civil engineering, from Indiana Department of Transportation, \$100,474, “Structural Impact of Construction Loads.”

McKee, Renee K; youth development & agricultural education, from Indiana State Department of Health, \$1,194,111, “Afternoons Rock in Indiana.”

McLuckey, Scott A; chemistry, from AB Sciex, \$311,344, “Electrostatic Ion Trapping and Ion/Ion Reaction Strategies for Hybrid Linear Ion Trap Tandem Mass Spectrometers.”

McNamara, Kevin T; agricultural economics, from The Indiana National Guard, \$6,000, “Military Agreement for ADT Training--.”

McNamara, Kevin T; international programs in agriculture, from The Indiana National Guard, \$2,500, “ADT Training Session on Small Ruminants, Forestry and Fruits.”

Merwade, Venkatesh M; civil engineering, from Geological Survey, U.S., \$25,000, “Floodplain Mapping from Soil SSURGO Data.” (a Discovery Park award — Center for the Environment)

Merwade, Venkatesh M; Brophy, Sean and Song, Xiaohui C; civil engineering, engineering education, Rosen Center for Advanced Computing, from National Science Foundation, \$222,107, “Collaborative Research: CI-TEAM Demonstration Project: Waterhub for Cyber Enabled Training, Education, and Research in Water Resources.” (a Discovery Park award — Center for the Environment)

Mickelbart, Michael V; horticulture & landscape architecture, from Knox Fertilizer Company, Inc., \$7,500, “Landscape Architecture Research.”

Mickelbart, Michael V; horticulture & landscape architecture, from Dow Agrosiences, \$9,400, “Landscape Architecture Research.”

Minchella, Dennis J; Bartlett, Edward L; Forney, James D; McCabe, George P; Pelaez, Nancy and Rundell, Ann E; science — administration, biological sciences, biochemistry, biomedical engineering, from Howard Hughes Medical Institute, \$1,500,000, “Deviating from the Standard: Integrating Statistical Analysis and Experimental Design into Life Science Education.” (a Discovery Park award — Discovery Learning Center)

Monteith, Margo J; psychological sciences, from National Science Foundation, \$137,016, “Implicit Stereotyping and Prejudice: Strategies and Processes of Change J, Amendment 1.”

Morgan, Mark T; food science, from Invensys, \$2,000, “EHEDG Evaluation of Two Ph Sensors (Model PH12) for Invensys Operations Management.”

Morgan, Mark T; food science, from Q-Pumps S.a De C.V., \$1,200, “EHEDG Evaluation of a Sanitary Centrifugal Pump (Model QC-216) for Q-Pumps S.A. de C.V.”

Nennich, Tamilee D; animal sciences, from Land O’ Lakes Farmland Feed, LLC, \$1,000, “Heifer Research.”

Newton, Jill A; curriculum & instruction, from National Science Foundation, \$66,915, “Collaborative Research: Justification in Algebra: Growing Understanding of Algebraic Reasoning (JAGUAR), Amendment 3.”

Niyogi, Devdutta S; agronomy, from National Aeronautics and Space Administration, \$30,000, “O. Kellner 10/11 NASA Role of Antecedent Soil Moisture Conditions on the Reintensification of Tropical Systems with Aid of Remotely Sensed Data and Model Verification.”

Novak, Robert E; speech, language & hearing sciences, from National Institutes of Health, \$365,189, “Electrophysiological Indices of Attention in Language Processing..”

Nyenhuis, John A; electrical & computer engineering, from Edwards Lifesciences, \$5,000, “MRI Tests of Pulmonary Valve.”

Nyenhuis, John A; electrical & computer engineering, from Angiomed GmbH & Co. Medizintechnik KG, \$16,000, “MRI Tests on Stents.”

O’Connell, Kathleen L; Vice Chancellor of Academic Affairs - Fort Wayne campus, from Substance Abuse/Mental Health Services Administration, \$499,998, “Indiana Cares (Year 3 Continuation).”

Ohland, Matthew W; engineering education, from National Science Foundation, \$400,000, “A Comparative Study of Engineering Matriculation Practices.”

Ohm, Herbert W; agronomy, from Agricultural Research Service, \$71,702, “Mechanisms of Resistance and Susceptibility in Wheat/Hessian Fly Interactions.”

Ohm, Herbert W; agronomy, from Agricultural Research Service, \$148,717, “Combining Yellow Dwarf Virus, Fusarium Head Blight, UG99 Stem and Stripe Rust Resistance Genes in Soft Winter Wheat Adapted to Eastern USA.”

Okos, Martin R; agricultural & biological engineering, from Sara Lee Bakery Group, \$1,000, “Multi-Sponsored Gift Account.”

Overholser, Brian R; pharmacy practice, from Showalter Trust, \$63,000, “Calcium-Dependent Regulation of a Cardiac Voltage-Gated Potassium Channel: Mechanisms Underlying Atrial Fibrillation During Heart Failure.”

Owens, Phillip R; agronomy, from Natural Resources Conservation Service, \$75,000, “Digital Soil Mapping.”

Panitch, Alyssa; biomedical engineering, from Biomet Inc., \$3,200, “In Vitro Activity of Autologous IL-1ra.”

Parker, Laurie L; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$248,999, “Biosensor Design for Detection and Analysis of Complex Signal Patterns in Cancer.”

Pastakia, Sonak D; pharmacy practice, from Mount Sinai School of Medicine, \$6,264, “Recognition of HIV-Related Kidney Disease in Kenya: Screening and Education of High-Risk Patients.”

Pekarek, Steven D; electrical & computer engineering, from Master Control Systems Inc., \$1,625, “Energy Sources & Systems Support.”

Pellicciotti, Beth; institutional research and assessment, from U.S. Department of Education, \$392,687, “Creating an Infrastructure for Experiential Education at Purdue University Calumet (2006-2011), Modification 3.”

Peroulis, Dimitrios; electrical and computer engineering, from Laserlith Corp, \$40,000, “Laserlith.” (a Discovery Park award — Birk Nanotechnology Center)

Pijanowski, Bryan C; forestry and natural resources, from U.S. Department of Education, \$175,020, “09/10/10/11 GAANN Fellowship Program in Ecology and Environmental Engineering, Amendment 1.” (a Discovery Park award — Center for the Environment)

Pizlo, Zygmunt; psychological sciences, from Air Force Office of Scientific Research, \$50,000, “Robotic Navigation Emulating Human Performance: Research Plan.”

Podell, Rickey L; field extension educators, from St. Joseph County 4-H Fair, Inc., \$10,000, “St. Joseph 4-H Promotion Position.”

Porterfield, D. Marshall; agricultural and biological engineering, from National Aeronautics and Space Administration, \$9,240, “Augmentation Proposal for Early Gravid Perception and Polarity in Single Cells.” (a Discovery Park award — Bindley Bioscience Center)

Prabhakar, Sunil K; computer science, from National Science Foundation, \$499,488, “III: Small: Ensuring Integrity and Authenticity of Outsourced Databases.”

Prakash, Arun; civil engineering, from National Science Foundation, \$35,812, “Collaborative Research: Validated Multiscale Simulation Framework for Large-Strain Thermo-Mechanical Response of Open-Cell Aluminum Foams.”

Pujol, Santiago; civil engineering, from Purdue Research Foundation: Xr Grant, \$16,795, “NEES Operations: FY 2010-2014.”

Pushkar, Yulia N; physics, from U.S. Department of Energy, \$180,000, “SISGR: Understanding Electronic and Atomic Requirements in Catalytic Water Oxidation.”

Quagraine, Kwamena K; agricultural economics, from Oregon State University, \$200,000, “Improving Competitiveness of African Aquaculture through Capacity Building, Improved Technology, and Management of Supply Chain and Natural Resources.”

Radcliffe, David F; engineering education, from Ross Graduate Fellowship/Assistantship, \$17,239, “Natalia Perova.”

Radcliffe, David F; engineering education, from Purdue University F N Andrews Fellowship, \$17,239, “Noah Salzman.”

Radcliffe, John S; animal sciences, from Alltech Biotechnology Center, \$8,000, “Alltech Biotechnology Center.”

Radcliffe, John S; animal sciences, from Chem-Gen Corp., \$15,000, “Multi-Sponsored.”

Raghunathan, Anand and Roy, Kaushik; electrical & computer engineering, from National Science Foundation, \$499,038, “CSR: Small: Scalable Effort Design: Exploiting Algorithmic Resilience for Energy Efficiency.”

Raghunathan, Anand; electrical & computer engineering, from Intel Corporation, \$50,000, “Architectures for Post-CMOS Devices.”

Ragland, Darryl; veterinary clinical science, from Pfizer Animal Health, \$8,000, “Inguinal Hernias & Cryptorchidism in Piglets.”

Ramachandran, P V; chemistry, from General Atomic Co., \$49,000, “Synthesis of Ethylenediamine-Borane (EdAB).”

Rao, Sanjay G; electrical & computer engineering, from National Science Foundation, \$80,000, “CiC Supplement: Career: Towards Automated and Assurable Enterprise Network Migration.”

Rao, Sanjay G; electrical & computer engineering, from National Science Foundation, \$116,006, “EAGER: Enabling Research on Migrating Enterprises to the Cloud Using GENI.”

Raskin, Rose E; comparative pathobiology, from Antech Diagnostics, \$800, “Immunocytochemistry Research.”

Raskin, Rose E; comparative pathobiology, from Phoenix Central Laboratory, \$250, “Immunocytochemistry Research.”

Ratliff, Timothy L and Crist, Scott A; comparative pathobiology, from National Institutes of Health, \$325,050, “Initiation and Regulation of Chronic Autoimmune Prostate Inflammation.”

Ratliff, Timothy L; comparative pathobiology, from Indiana Elks Charities Inc., \$92,250, “Indiana Elks Charities Inc..”

Ratliff, Timothy L and Snyder, Paul W; comparative pathobiology, from PHS-NIH National Cancer Institute, \$204,697, “Inflammation and Prostate Cancer Development and Progression.”

Ratliff, Timothy L; cancer research center, from Walther Cancer Institute Foundation Inc, \$225,000, “Request for Support to Recruit Deputy Director Purdue University Center for Cancer Research.”

Reklaitis, Gintaras V; chemical engineering, from Rutgers State University, \$80,000, “Engineering Research Center Industrial Membership.”

Ribeiro, Fabio H; chemical engineering, from Argonne National Laboratory, \$380,000, “Institute for Atom-Efficient Chemical Transformations (IACT), Modification 3.”

Richert, Brian T and Latour, Mickey A; animal sciences, from Provimi North America Inc., \$38,080, “Estimating the Shelf-Life of Bacon from Market Pigs Fed Various Antioxidant Compounds.”

Robinson, Joseph P; Bhunia, Arun K; Davisson, Vincent J; Rajwa, Bartlomiej P; Dietz, James E and Hirleman, E Daniel; basic medical sciences, food science, medicinal chemistry & molecular pharmacology, bindley bioscience center, computer and information technology, mechanical engineering, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$1,309,177, “A Distributed Clinical and Biodefense National Network for Rapid Organism Identification.” (a Discovery Park award — Bindley Bioscience Center)

Rochefford, Torbert R; agronomy, from Michigan State University, \$205,505, “Elucidating the Genetic Architecture of Provitamin A and Vitamin E Biosynthesis in Seed.”

Roy, Kaushik; electrical & computer engineering, from RNET Technologies Inc, \$33,000, “Rad-Hard Capability for Production Electronics.”

Rundell, Ann E; Buzzard, Gregory T and Harrison, Marietta L; biomedical engineering, mathematics, medicinal chemistry & molecular pharmacology, from National Science Foundation, \$286,470, “Quantitative Design of Experiments to Predictably Alter Intracellular Signaling Dynamics, Amendment 1.”

Sadeghi, Farshid; Adams, Douglas E and Peroulis, Dimitrios; mechanical engineering, electrical & computer engineering, from CACI International Inc, \$160,000, “Disruptive MEM Sensors for Monitoring Aircraft Drive Trains.”

Saeedifard, Maryam; electrical & computer engineering, from The Mathworks Inc., \$40,000, “Development of Green Power Laboratory for Power Electronics and Renewable Energy Curriculum.”

Saha, Shubin K; horticulture & landscape architecture, from Syngenta Seeds, Inc., \$4,000, “Multi Sponsored Gift Account.”

Salt, David E; Baxter, Ivan R and Zhang, Min; horticulture and landscape architecture, biological sciences, from National Science Foundation, \$1,302,944, “TRMS: from Ionome to Genome:

Mapping the Gene Networks Controlling Nutrient Content in Rice Grain , Amendment 4.” (a Discovery Park award — Bindley Bioscience Center)

Samarapungavan, Ala; educational studies, from Purdue University F N Andrews Fellowship, \$17,680, “ Laura M Reid.”

Samarapungavan, Ala; educational studies, from Ross Graduate Fellowship/Assistantship, \$17,680, “ Martin A Nolasco.”

Santerre, Charles R; Illinois-Indiana Sea Grant Program, from University of Illinois, \$10,000, “Real-Time Online Access of Fish Consumption Advice.”

Savaiano, Dennis A; Office of the Provost, from South China University of Technology, \$24,938, “China Center Account.”

Schendel, Dan E; management, from Strategic Management Society, \$8,677, “Strategic Management Society.”

Schneider, Steven P; aeronautical & astronautical engineering, from Sandia National Laboratories, \$10,000, “Support Tunnel Operations and Perform Sandia Experiments.”

Schooley, Angela M; nursing - North Central campus, from Indiana Campus Compact, \$2,250, “Bringing Prenatal Education to Hispanic Communities.”

Sepulveda, Maria S; forestry & natural resources, from Indiana University-Purdue University at Indianapolis, \$17,271, “Development of High Throughput Metabolomic Screening of Biomarkers in Zebrafish and Mouse for the Translational Evaluation of Fetal Alcohol Syndrome.”

Servaty-Seib, Heather L; educational studies, from Indiana Campus Compact, \$3,750, “BRIDGE.”

Shalae, Vladimir M and Drachev, Vladimir P; electrical and computer engineering, from Science & Technology Corp, \$40,000, “Bi-Spectral Plasmonic Obscurants.” (a Discovery Park award — Birk Nanotechnology Center)

Shalae, Vladimir M; electrical and computer engineering, from Central Intelligence Agency, \$240,000, “A Planar Magnifying Hyperlens.” (a Discovery Park award — Birk Nanotechnology Center)

Shih, Tom I; aeronautical & astronautical engineering, from The National GEM Consortium, \$4,167, “10/11 Fellowships GEM Engineering, Jeffrey A Rodriguez.”

Shih, Tom I; aeronautical & astronautical engineering, from Siemens Power Generation Inc, \$30,000, “CFD Study of Fluid Flow and Heat Transfer in a U-Duct Lined with Pin Fins Under Rotating and Nonrotating Conditions.”

Shipsey, Ian P; physics, from Stanford Linear Accelerator Center, \$165,660, “Conceptual Design of the Corner Raft Mechanics for the Large Synoptic Survey Telescope Project (LSST).”

Shipsey, Ian P; physics, from U.S. Department of Energy, \$83,000, “An Experimental and Theoretical High Energy Physics Program, Supplement Grant 103477.”

Si, Luo; computer science, from Yahoo Inc, \$14,500, “Yahoo.”

Smith, Alan L; health & kinesiology, from University of Vermont, \$196,552, “A Translational Approach to Evaluating the Effects of Physical Activity on ADHD, Amendment 1.”

Smith, Daniel T; industrial & physical pharmacy, from World Health Organization, \$9,765, “Proof-of-Concept Study for a Fixed Dose Combination Product Containing Sulfamethoxazole, Trimethoprim, Isoniazid, and Pyridoxine.”

Smith, Karl A; engineering education, from National Science Foundation, \$20,241, “Collaborative Research: -Lifting the Barriers: Understanding and Enhancing Approaches to Teaching Communication and Teamwork Among Engineering Faculty.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “James Miller.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Xiping Liu.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Yafang Chen.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Molly Tigley.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Devika Sirohi.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Ritika Gupta.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Rajdeep Bomjan.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Suilan Zheng.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Dominique Hall.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Darci Barney.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Jessica Reemmer.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Rachel Etherton.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Michael Barney.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Muyi Liu.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Junjie Li.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Alyssa Deleon.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Ping Du.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Gregory Cresswell.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Glen Acosta.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Yan Huang.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Timothy Berry.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Crysta Colangelo.”

Smith, Mjt; graduate school administration, from Interdisciplinary Fellowships, \$23,765, “Mariya Krisenko.”

Smith, Mjt; graduate school administration, from Lynn Interdisciplinary Grad. Fellowship, \$16,988, “Pengei Yan.”

Smith, Richard S; food science, from Maple Leaf Farms Inc., \$2,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Heartland Sweeteners, \$2,000, “Sensory Evaluation Research.”

Sorge, Brandon; Office of Engagement, from Indianapolis Public Schools, \$40,000, “IP-ISTEM Subcontract Agreement.”

Springer, John A; computer & information technology, from Indiana University Purdue-University at Indianapolis, \$24,497, “Virtual Bio Bank Web Application Project.”

Staiger, Christopher J; biological sciences, from U.S. Department of Energy, \$170,000, “Regulation of Actin Filament Ends: the Role of Capping Protein Instochastic Dynamics and Organelle Behavior.”

Stanciu, Lia A; materials engineering, from National Institutes of Health, \$159,971, “Metal-Induced Structural Transformations During Alpha-Synuclein Aggregation.”

Stantz, Keith M; health sciences, from Optosonics, Inc., \$166,000, “Year 2 SBIR Photoacoustic CT for Preclinical Molecular Imaging, Amendment 1.”

Stewart, Terry S and Schinckel, Allan P; animal sciences, from North Carolina State University, \$72,695, “Testing the Utility of Soybeans Lacking Antinutritional Proteins.”

Streveler, Ruth A; engineering education, from National Science Foundation, \$95,079, “Collaborative Research: Integrating Models of Cognition and Measurement with Conceptual Knowledge, Amendment 1.”

Suitor, J Jill; sociology, from PHS-NIH National Institute on Aging, \$442,130, “Parent Adult-Child Relations: Within Family Differences.”

Sun, Dengfeng; aeronautical & astronautical engineering, from National Science Foundation, \$170,000, “CPS:Small:Collaborative Research:Dynamical-Network Evaluation and Design Tools for Strategic-to-Tactical Air Traffic Flow Management.”

Switzer, Beth R; field extension educators, from Target, Inc., \$2,000, “Purdue Literacy Leaders.”

Szpankowski, Wojciech; computer science, from Purdue Research Foundation: XR Grant, \$16,795, “Emerging Frontiers of Science of Information (STC).”

Szpankowski, Wojciech; computer science, from Purdue Research Foundation: XR Grant, \$16,795, “Emerging Frontiers of Science of Information (STC).”

Tarko, Andrew P; civil engineering, from Indiana Department of Transportation, \$35,000, “Use of Barriers in Rural Open Road Conditions - a Synthesis Study, SPR-3515.”

Thottethodi, Mithuna S; electrical & computer engineering, from National Science Foundation, \$50,000, “Career:Cross-Layer Schemes for Flexible Resource Sharing in Multi-Core Systems, Amendment 3.”

Todd, Brian A; physics, from National Science Foundation, \$210,000, “Looping Dynamics of Semi-Flexible Polymers.”

Tomar, Vikas; aeronautical & astronautical engineering, from Clemson University, \$150,000, “AOI [2] Multiscale Modeling of Grain Boundry Segregation and Embrittlement in Tungsten for Mechanistic Design of Alloys for Coal Fired Plants.”

Tomar, Vikas; aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$100,000, “(YIP-09) Understanding Nanoscale Thermal Conduction and Mechanical Strength Correlation in High Temperature Ceramics with Improved Thermal Shock Resistance.”

Topp, Elizabeth M; industrial & physical pharmacy, from American Foundation for Pharmaceutical Education, \$6,000, “10/11 AFPE Fellowship, Jared Baird.”

Townsend, Jonathan R and Horstman, Lawrence A; veterinary clinical science, from IDEXX Laboratories, Inc., \$18,500, “IDEXX Bovine Pregnancy Test Evaluation.”

Trapp, Robert J; earth & atmospheric sciences, from National Science Foundation, \$206,954, “The Response of Convective Precipitating Storms to Anthropogenically Enhanced Global Radiative Forcing, Amendment 2.”

Trice, Rodney W; materials engineering, from Rolls-Royce Corporation, \$20,877, “Test Agreement: Hot Corrosion of Airfoils I.”

Tricoche, Xavier M; computer science, from National Science Foundation, \$227,401, “Collaborative Research: a Unified Dynamical Systems-Simulation-Visualization Approach to Modeling and Analyzing Granular Flow Phenomena.”

Troutman, Penelope J; field extension educators, from Partners for a Drug Free Cass County, \$1,800, “Have a Healthy Baby in Cass County.”

Tyner, Wallace E; agricultural economics, from United Nations University, \$228,550, “Assessment of Climate Change Impact on Economic Development Opportunities in North Africa: Case of Morocco and Tunisia.”

Tyner, Wallace E; agricultural economics, from State of California, \$4,995, “Carb Work.”

Ukkusuri, Satish V; civil engineering, from Vietnam Education Foundation, \$1,000, “10/11 VEF Fellowship Fo R Kien Trung Doan - PDG Award.”

Useem, Bert; sociology, from Purdue University Special Initiative Program, \$20,747, “Lauren E. Parker.”

Vacca, Andrea; agricultural & biological engineering, from Casappa S.p.A., \$57,042, “Advances in External Gear Hydraulic Machines Modeling.”

Vaughn, Kevin J; anthropology, from National Geographic Society, \$9,960, “Emergency Excavation of Tombs at Cocahuischo, Nasca, Peru.”

Vitek, Jan and Hosking, Antony L; computer science, from National Science Foundation, \$46,800, “VEESC: Virtual Execution Environments for Scientific Computing.”

Vitek, Jan; computer science, from National Science Foundation, \$110,000, “Foundations of Data-Centric Concurrency Control.”

Walmsley, Terrie L; agricultural economics, from World Bank, \$50,000, “Migration and Growth in East Asia and the Pacific 2004-2050.”

Wan, Hong; industrial engineering, from National Science Foundation, \$200,000, “Collaborative Research: Optimal Sampling Plans in Supply Chains with Endogenous Product Quality.”

Wang, Xiao; statistics, from National Science Foundation, \$142,000, “Collaborative Research: A Constrained Optimal Control Approach to Non-parametric Estimation with Applications to Biological, Biomedical and Engineering Systems.”

Waters, David J; veterinary clinical science, from Gerald P. Murphy Cancer Foundation, \$10,000, “Activities that Support the Research and Communication Efforts of Professor David J. Waters.”

Watkins, Bruce A; food science, from Godiva Chocolatier Inc., \$2,500, “Food Lipid Research.”

Watkins, Bruce A; food science, from Ocean Nutrition, \$25,000, “Food Lipid Research.”

Weatherman, Kara D; pharmacy practice, from Indiana University School of Medicine, \$2,000, “Teaching Nuclear Medicine Technology Course at IU.”

Weaver, Connie M and Nakatsu, Cindy H; foods & nutrition, agronomy, from Tate & Lyle Ingredients Americas, Inc., \$344,932, “SCF and Calcium Utilization in Adolescents.”

Weaver, Connie M; foods & nutrition, from University of Georgia, \$573,975, “Supplemental Vitamin D and Functional Outcomes in Early Adolescence, Amendment 2.”

Weaver, Rachel A; Chancellor - North Central campus, from Indiana Youth Institute, \$545, “The Flippen Group - Teen Leadership Certification.”

Webb, Kevin J; electrical & computer engineering, from National Science Foundation, \$360,000, “Speckle with Classical and Entangled Photons for Sensing, Imaging, and Communication.”

Weiss, William J; civil engineering, from Continental Cement Company, \$1,500, “The Role of Cement Composition on Shrinkage of Mortar and Concrete.”

Wereley, Steven T; mechanical engineering, from National Science Foundation, \$15,600, “RAPID: Assessing Flow Rate of Macondo Oil Spill.” (a Discovery Park award — Birk Nanotechnology Center)

Wild, Robert E; chemistry, from Lynn Interdisciplinary Graduate Fellowship, \$16,988, “Shu-Hao Yeh.”

Wild, Robert E; chemistry, from Purdue University F N Andrews Fellowship, \$16,923, “Robert E. Birdsall.”

Williams, Rod N; forestry & natural resources, from Ron Goellner Conservation Fund, \$960, “Assessment of Genetic Structure Within and Among Eastern Hellbender Populations.”

Wirth, Mary J; chemistry, from National Institutes of Health, \$162,421, “Sensitive Biomarker Detection Using Organized Nanoparticles in Multiwell Plates.”

Wirth, Mary J; chemistry, from PHS-NIH National Institute of General Medical Science, \$285,819, “New Materials for High Efficiency Protein Separations.”

Wise, Kiersten A; botany & plant pathology, from Ag Alumni Seed Improvement Association, \$7,500, “Voluntary Support Account.”

Won, You-Yeon; chemical engineering, from Amore Pacific Support, \$20,000, “Peptide Block Copolymers with pH-Tunable Amphiphilicity for Cosmetic Applications.”

Wu, Ching C; comparative pathobiology, from Pfizer Inc, \$6,250, “Multi-Sponsored.”

Xu, Dongyan and Zhang, Xiangyu; computer science, from National Science Foundation, \$200,000, “TC: Eager: Binary-Based Data Structure Revelation for Memory Forensics.”

Xu, Xianfan; mechanical engineering, from Research Triangle Institute, \$60,000, “Advanced Nanoscale Thin-Films and Nano-Bulk Thermoelectric Materials Towards 30% Conversion Efficiency Devices.” (a Discovery Park award — Birk Nanotechnology Center)

Xu, Xianfan; mechanical engineering, from National Science Foundation, \$40,883, “Graduate Research Supplements (GSR) to NIRT/GOALI: Development of a Multiscale Hierarchical Nanomanufacturing Tool.” (a Discovery Park award — Birk Nanotechnology Center)

Yaninek, John S; entomology, from Purdue University Special Initiative Program, \$74, “Faith J. Weeks.”

Yao, Bin; mechanical engineering, from National Science Foundation, \$140,000, “EAGER: a Holistic Approach to Adaptive Robust Control of Systems with Uncertain Nonsmooth Nonlinearities - with Application to Cable-Conduit Actuated Surgical Robotic Devices.”

Yao, Yuan; food science, from Dow Agrosiences, \$7,500, “Multi-Sponsor, Yao.”

Zhang, Min; statistics, from Indiana University, \$70,779, “Early Cancer Detection and Prognosis through Glycomics.”

Zhou, Chenn Q; visualization center, from Falk-PLI Engineering & Surveying Inc., \$3,000, “Development of 3-D Modeling for AIS Tech 2010 Presentation.”

Zinsmeister, William J; earth & atmospheric sciences, from ExxonMobil Foundation Fund, \$10,500, “Zinsmeister Research.”

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