

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

April 2013

**Adeola, Olayiwola**; animal sciences, from Danisco Animal Nutrition, \$6,800, "Danisco."

**Aguiar, Ruben C; Thompson, David H; Crist, Scott A and Ratliff, Timothy L**; biological sciences, chemistry, comparative pathobiology, from PHS-NIH National Cancer Institute, \$111,766, "Targeting of Bladder Tumor Cells by Nanocarriers Bearing Bacillus Calmette-Guerin Fibronectin Attachment of Protein."

**Ahasteen-Bryant, Felica T**; Native American Cultural Center, from American Indian Science and Engineering Society, \$6,650, "Connecting with Mother Earth."

**Aime, Mary C**; botany & plant pathology, from Andrew W. Mellon Foundation, \$59,000, "Proposal for Digitizing Type Specimens, Data Sharing, and Capacity Building at the Arthur & Kriebel Herbaria of Purdue University."

**Anderson, Joseph M and DeVillez, Philip L**; agronomy, from Pioneer Hi-Bred International, Inc., \$21,000, "2013 Plant Population Response of Corn Hybrids."

**Anderson, William E**; aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc., \$77,320, "Purchase Order T00141 FY13 — Integrated Combustion Stability Analysis Assessment [Grant 106305]."

**Appenzeller, Joerg and Datta, Supriyo**; engineering administration engineering experiment, electrical & computer engineering, from University of California-Los Angeles, \$285,000, "FAME." (a Discovery Park award — Birck Nanotechnology Center)

**Applegate, Todd J**; animal sciences, from JBS United Inc, \$11,900, "Pyhtase in Poultry."

**Bahr, David F**; materials engineering, from Sandia National Laboratories, \$25,000, "Wear Resistant Materials for Electrical Contacts."

**Banks, Jo A and Vitek, Olga**; botany & plant pathology, statistics, from National Science Foundation, \$300,000, "Pheromonal Control of Gamete Determination and Differentiation in Ceratopteris Gametophytes."

**Benes, Bedrich**; computer graphics technology, from Purdue University, \$61,048, "12-13 Office of the Vice President for Research (OVPR) Bridge Funding for HCC: CGV: Collaborative Reserach: Haptic Rendering & Visual Simulation to Improve Understanding of Complex Physical Processes."

**Benes, Bedrich**; computer graphics technology, from Arizona State University, \$47,564, "A Global High-Resolution Fossil Fuel CO2 Inventory Built from Assimilation of in Situ and Remotely-Sensed Datasets to Advance Satellite Greenhouse Gas Decision Support Systems."

**Bhargava, Bharat; Grama, Ananth Y; Jagannathan, Suresh; Lu, Yung-Hsiang and Zhang, Xiangyu**; computer science, electrical & computer engineering, from National Science Foundation, \$14,619, "Net-Centric Software & Systems Industry/University Cooperative Research Center."

**Bi, Zhuming**; engineering — Fort Wayne campus, from Stevens Institute of Technology, \$2,000, "Everyday Examples in Engineering (E3s) Mini Grant."

**Bickham, John W**; forestry & natural resources, from North Slope Borough, \$45,000, "Monitoring Genetic Diversity and the Development of an Extended DNA Single Nucleotide Polymorphism (SNP) Panel for Bowhead Whales."

**Bigelow, Cale A**; agronomy, from National Turfgrass Evaluation Program, \$7,500, "2012 National Tall Fescue Test."

**Bigelow, Cale A**; agronomy, from Agrotain International LLC, \$572, "Putting Greens Research."

**Boudouris, Bryan W**; chemical engineering, from Space and Naval Warfare Systems Center, \$150,000, "Radical Polymers for Nanostructured, Next Generation Thermoelectric Devices; Modification 1 for Grant 106058."

**Brady, Colleen M**; youth development & agricultural education, from International Society for Equitation Science, \$1,101, "(Melissa Voigt) Welfare and Stewardship of Competition and Show Horses."

**Breur, Gert J; Weng, Hsin-Yi; Fauber-Otlewski, Amy E; Lambrechts, Nicolaas E and Millard, Ralph P**; veterinary clinical science, comparative pathobiology, from American College of Veterinary Surgeons, \$9,755, "Validation of Normative Ranges for Gait Variables to Identify Forelimb and Hindlimb Lameness in Individual Dogs at Walk."

**Brown, Harry E**; Dean of Students, from Indiana Campus Compact, \$1,000, "Boiler Blast."

**Camberato, James J**; agronomy, from Multi-Sponsored Industrials, \$121, "Multi-Sponsored."

**Campanella, Osvaldo H**; agricultural & biological engineering, from Blume Distillation, LLC, \$7,000, "Multi Sponsored Gift Account."

**Capponi, Agostino**; industrial engineering, from Institute for New Economic Thinking, \$75,317, "Dynamic Contagion Mechanisms in Financial Networks."

**Casteel, Shaun N**; agronomy, from Monsanto Company, \$4,500, "Soybean Extension Research."

**Chang, Fen-Lei F**; medical education — Fort Wayne Campus, from Indiana University, \$28,000, "Indiana University School of Medicine (IUSM) Fort Wayne Equipment Fund."

**Chang, Fen-Lei F**; medical education — Fort Wayne campus, from Indiana University, \$99,000, "Indiana University School of Medicine (IUSM) — Anna Yoder Memorial Fund."

**Chapman, Robert N**; forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$1,000, "Voluntary Support — Ext. Activities."

**Chapman, Robert N**; forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$250, "Voluntary Support— Ext. Activities."

**Chapman, Robert N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$2,500, “Voluntary Support — Ext. Activities.”

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**Chapman, Robert N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$500, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$100, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N and Williams, Rod N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$500, “Voluntary Support — Ext. Activities.”

**Chapman, Robert N and Williams, Rod N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$500, “Voluntary Support — Ext. Activities.”

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**Chapman, Robert N;** forestry & natural resources, from Indiana Chapter of the Wildlife Society, \$500, “Voluntary Support — Ext. Activities.”

**Chappell, William J;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$464,492, “William Chappel DARPA Intergovernmental Personnel Assignment (IPA) Extension.”

**Chen, Jun;** mechanical engineering, from National Hot Rod Association, \$9,926, “Air Flow Evaluation of Two Canopies for a Top Fuel Dragster.”

**Chen, Yong P;** physics, from Purdue Research Foundation: XR Grants, \$17,287, “Purdue Center for Topological Materials.”

**Chester, Julia A;** psychological science, from Brain & Behavior Research Foundation, \$100,000, “Pharmacological Intervention for the Treatment of Post-Traumatic Stress Disorder (PTSD)-Like Behavior in a Genetic Animal Model of High Alcohol Preference.”

**Coddington, Jennifer A; Aaltonen, Pamela M and Kirkpatrick, Jane M;** nursing, from Indiana University Health Arnett, \$34,009, “IU Health Faculty Practice Partnership.”

**Colby, David A;** medicinal chemistry & molecular pharmacology, from Purdue University, \$50,000, “12-13 Office of the Vice President for Research (OVPR) Bridge Funding for Synthesis of Difluorinated Compounds with the Release of Trifluoroacetate.”

**Constable, Peter D;** veterinary clinical science, from Mississippi State University, \$111,549, “Mississippi State Residency Exchange — Latisha Moore.”

**Cooks, Robert G;** chemistry, from ConocoPhillips, \$25,000, “Ambient Ionization for Characterization of Upstream Petroleum Products.” (a Discovery Park award — Bindley Bioscience Center)

**Couetil, Laurent L;** veterinary clinical science, from Electrocure, \$7,790, “Efficacy and Safety of a New Treatment for Recurrent Airway Obstruction in Horses Using Vagus Nerve Stimulation: A Pilot Study.”

**Couetil, Laurent L;** veterinary clinical science, from Central Biomed Inc, \$7,453, “Antibody-Binding Pattern of Concentrated Equine Serum (CES) to Inhalable Dust Antigens from Horse Barns Using Immunoblot Analysis.”

**Csonka, Leslie N;** biological sciences, from Rutgers State University, \$71,330, “The Function of Small RNA-Based Viral Defense System in E. Coli.”

**Culurciello, Eugenio;** biomedical engineering, from National Science Foundation, \$230,120, “Instrument Development for Biological Research (IDBR): High-Throughput Instrumentation for Lipid Bilayers and Patch-Clamp; Amendment 4 for Grant 105550.”

**Dadarlat, Marius D;** mathematics, from National Science Foundation, \$111,274, “Operator Algebras and Topological Invariants; Amendment 2 for Grant 105262.”

**Davis, Susan B;** Office of Engagement, from Indiana Economic Development Corporation, \$157,887, “Hoosier Heartland Small Business Development Center CY 2013 (Federal).”

**Davis, Susan B;** Office of Engagement, from Indiana Economic Development Corporation, \$27,862, “Hoosier Heartland Small Business Development Center CY 2013 (State).”

**Deemer, Eric D;** educational studies, from National Science Foundation, \$158,590, “The Mediating Role of Stereotype Threat and Achievement Goals in the Regulation of Scientific Motivation.”

**DeLaurentis, Daniel A; Crossley, William A and Hwang, Inseok;** aeronautical & astronautical engineering, from Intelligent Automation Inc, \$20,000, “Modification 1 to Subcontract 912-5 Grant 106367.”

**Douse, Christopher D;** Diversity and Multicultural Affairs — Fort Wayne campus, from Health Visions of Ft. Wayne, \$5,000, “Indiana University-Purdue University Fort Wayne (IPFW) Dental Education, Nursing, Radiography Healthcare Exploration Experience.”

**Dragnev, Peter D;** mathematics — Fort Wayne campus, from Simons Foundation, \$35,000, “Optimal Configurations and Equilibrium Measures.”

**Duval-Couetil, Nathalie A;** industrial technology, from National Collegiate invention & Innov Alliance, \$69,030, “Entrepreneurship Education & its Impact on Engineering Student Outcomes: the Role of Program Characteristics and Faculty Beliefs.”

**Duval-Couetil, Nathalie A;** industrial technology, from National Collegiate invention & Innov Alliance, \$10,000, “Aligning Entrepreneurship Education with ABET Accreditation Criteria.”

**Egel, Daniel S;** botany & plant pathology, from E.I. du Pont de Nemours and Company, \$600, “Potassium Management.”

**Eugster, Patrick T;** computer science, from U.S. Department of Interior, \$200,000, “A Methodology for Developing Complex Event-Based Software; Amendment 3 for Grant 105315.”

**Eugster, Patrick T;** computer science, from Google Inc, \$59,000, “Google.”

**Fei, Songlin and Pijanowski, Bryan C;** forestry & natural resources, from National Science Foundation, \$6,126, “Predicting Regional Invasion Dynamic Processes Pride Developing a Cross Scale Functional Trait Based Modeling Framework.”

**Field, William E;** agricultural & biological engineering, from Kossuth Street Baptist Church, \$800, “Breaking New Ground.”

**Field, William E;** agricultural & biological engineering, from Kossuth Street Baptist Church, \$250, “Breaking New Ground.”

**Field, William E;** agricultural & biological engineering, from Kossuth Street Baptist Church, \$10,000, “Breaking New Ground.”

**Field, William E;** agricultural & biological engineering, from Kossuth Street Baptist Church, \$2,000, “Breaking New Ground.”

**Finke, Linda M;** health & human services — Fort Wayne campus, from Indiana State Department of Health, \$6,226, “Empowered (State Partnership Grant) 2012-2013.”

**Finke, Linda M;** health & human services — Fort Wayne campus, from Indiana Family Health Council, Inc., \$118,425, “Lafayette Street Family Health Clinic Title X.”

**Finley, John P; Bortoletto, Daniela; Shipsey, Ian P; Cui, Wei K; Neumeister, Norbert; Khlebnikov, Sergei and Kruczenski, Luis M;** physics, from U.S. Department of Energy, \$1,734,000, “An Experimental and Theoretical High Energy Physics Program; Modification 2 for Grant 105894.”

**Frosch, Robert J;** civil engineering, from Concrete Reinforcing Steel Institute, \$5,000, “CRSI Foundation.”

**Furnish, Virginia E;** field extension educators, from Switzerland County Awareness Team, \$550, “Project LEAD.”

**Garimella, Suresh V;** mechanical engineering, from National Science Foundation, \$2,310, “NSF Industry/University Cooperative Research Center on Compact, High-Performance Cooling Technologies Research.”

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

**Garrison, James L;** aeronautical & astronautical engineering, from University of Michigan, \$60,689, “Cyclone Global Navigation Satellite System (CYGNSS).”

**Geahlen, Robert L;** pharmacy — administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$300,855, “Tyrosine Kinases and Lymphocyte Activation.”

**Ghosh, Arun K;** medicinal chemistry & molecular pharmacology, from Wadsworth Center Health Res Inc, \$203,243, “Inhibition and Mechanism of Flavivirus Methyltransferase.”

**Goldsbrough, Peter B; Creswell, Tom C; Ruhl, Gail E; Gibb, Timothy J and Sadof, Clifford S;** botany & plant pathology, entomology, from Michigan State University, \$6,500, “National Plant Pest Diagnostic Network.”

**Groll, Eckhard A;** mechanical engineering, from Holekamp Foundation, \$11,000, “Testing of Innovative CO2 Compressors.”

**Groll, Eckhard A;** mechanical engineering, from Air Squared Inc, \$6,000, “Multi-Sponsor Groll.”

**Haddock, John E;** civil engineering, from Indiana Department of Transportation, \$1,291,800, “2013 Local Technical Assistance Program Work Plan & Budget.”

**Han, Bumsoo;** mechanical engineering, from Cook General Biotechnology, \$2,364, “Measurement of Devitrification Temperature of Cryopreservation Solutions.”

**Hartman, Nathan W;** computer graphics technology, from Rolls-Royce, Inc., \$100,000, “Phase IX Rolls Royce/Purdue Product Lifecycle Management (PLM) Collaboration Proposal.”

**Hartman, Nathan W;** computer graphics technology, from General Motors Foundation, \$50,000, “Product Lifecycle Management Center of Excellence (PLM).”

**Heeg, Marlene O;** pharmacy — administration, from EMD Serono Inc, \$138,073, “Improving Disease Modifying Therapy Self Injection and Adverse Effect Management in the MS Population: Best Practices for Patient Education and Communication.”

**Heeg, Marlene O;** pharmacy — administration, from Genentech Corporation, Inc., \$60,500, “The Promise of the MET Signaling Pathway in Cancer.”

**Heeg, Marlene O;** pharmacy — administration, from AbbVie Inc, \$150,000, “Update on the Management of Chronic Hepatitis C, Focus on Novel HCV Treatments.”

**Heeg, Marlene O;** pharmacy — administration, from Auxilium Pharmaceuticals, Inc, \$250,000, “2013-2014 National Hypogonadism/Testosterone Replacement Therapy Educational Initiative.”

**Heister, Stephen D;** aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc, \$19,150, “PO T00149 FY13, Rev. 02 for Grant 106305.”

**Hertel, Thomas W;** agricultural economics, from Multi-Sponsored Industrials, \$19,650, “Global Trade Analysis Project (GTAP) Consortium.”

**Hibiki, Takashi; Schlegel, Joshua P and Ishii, Mamoru;** nuclear engineering, from Chevron U.S.A., Inc., \$100,000, “Code Development for the Prediction of Bubble Coalescence and Breakup Rates in the Churn-Turbulent Flow Regime.”

**Hogan, Daniel F;** veterinary clinical science, from European Society of Veterinary Cardiology, \$3,164, “Journal of Veterinary Cardiology Editorial.”

**Hosking, Antony L;** computer science, from Qualcomm Technologies Inc, \$100,000, “Qualcomm.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$100, “Katherine Howe Gift Fund.”

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**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$50, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$50, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

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**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$50, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$40, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

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**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$100, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$50, “Katherine Howe Gift Fund.”

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$30, “Katherine Howe Gift Fund.”

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**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$30, "Katherine Howe Gift Fund."

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$40, "Katherine Howe Gift Fund."

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$20, "Katherine Howe Gift Fund."

**Howe, Katherine M;** botany & plant pathology, from Multi-Sponsored Industrials, \$100, "Katherine Howe Gift Fund."

**Howell, Kathleen;** aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$50,000, "Adaptive Trajectory Design (ATD): Multiple Dynamical Regimes."

**Howell, Kathleen;** aeronautical & astronautical engineering, from Analytical Mechanics Association, Inc, \$17,500, "National Aeronautics and Space Administration (NASA) Guidance, Navigation, and Control Technical Discipline Team (TDT)."

**Johnson, William G;** botany & plant pathology, from DuPont Crop Protection, \$1,000, "Weed Research."

**Johnson, William G;** botany & plant pathology, from DuPont Crop Protection, \$30,000, "Weed Research."

**Johnson, William G;** botany & plant pathology, from DuPont Crop Protection, \$8,000, "Weed Research."

**Johnston, Cliff T;** agronomy, from Wash. River Protection Solutions, \$143,500, "Thermodynamic and Spectroscopic Study of Aluminum Speciation and Solubility for Hanford Wastes."

**Kaufmann, Erika B;** mathematics, from Simons Foundation, \$87,936, "Mathematical Physics of Quantum Systems."

**Kaufmann, Ralph M;** mathematics, from Simons Foundation, \$104,893, "Geometry and Topology Inspired by Physics."

**Kays, Michael B;** pharmacy practice, from Indiana University Health, \$4,500, "Pharmacokinetics and Pharmacodynamics of an Extended-Infusion Piperacillin/Tazobactam Dosing Regimen in a Pediatric Intensive Care Population."

**King, Galen B;** mechanical engineering, from Hukam Mongia, PhD, \$15,000, "Gas Turbine Combustion & Intel."

**Klimeck, Gerhard;** electrical & computer engineering, from Purdue Research Foundation: XR Grants, \$17,287, "Purdue Center for Topological Materials."

**Klimeck, Gerhard;** electrical & computer engineering, from University of Wisconsin-Madison, \$45,870, "Solid State Quantum Computing Using Spin Qubits in Silicon Quantum Dots; Amendment 2."

**Klimeck, Gerhard; Fonseca, James E; Kubis, Tillmann C; Povolotskyi, Mykhailo and Rahman, Rajib;** electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, "Incoherent Scattering in Non-Equilibrium Greens Functions in Realistic III-V Devices." (a Discovery Park award — Network for Computational Nanotechnology)

**Kong, Nan;** biomedical engineering, from PHS-NIH National Cancer Institute, \$61,152, "Cost-Effectiveness Analysis of Age- and Gender-Based Colorectal Cancer Screening."

**Krishnan, Ananthanarayan and Gandour, Jackson T;** speech, language and hearing sciences, from National Institutes of Health, \$282,585, "Effects of Language Experience on Early Cortical and Subcortical Pitch Encoding."

**Krupke, Christian H;** entomology, from Indiana Corn Marketing Council, \$57,677, "Safeguarding Pollinators During Corn Planting: Quantifying Effects of Improved Seeding Practices for Indiana Corn."

**Labi, Samuel; Sinha, Kumares C and Mannering, Fred L;** civil engineering, from Indiana Department of Transportation, \$375,000, "Indiana State Highway Cost Allocation and Reveue Attribution Study."

**Ladisch, Michael R and Mosier, Nathan S;** agricultural & biological engineering, from Mascoma Corporation, \$72,364, "Characterization of Biomass Materials."

**Ladisch, Michael R and Mosier, Nathan S;** agricultural & biological engineering, from Blume Distillation, LLC, \$7,657, "Test Agreement on Alcohol Drying Using Starch Adsorbents."

**Lechtenberg, Victor L;** president, from Indiana Small Business Development Cent., \$161,428, "2013 Small Business Development Center (SBDC) Host Proposal for Southeast — Federal Funds."

**Lechtenberg, Victor L;** president, from Woodrow Wilson National Fellowship Foundation, \$18,000, "Indiana Teaching Fellowship Program."

**Lechtenberg, Victor L;** president, from Multi-Sponsored Industrials, \$20,000, "Support of Southeastern Small Business Development Center (SBDC)."

**Lehto, Mark R;** industrial engineering, from Procter & Gamble Company, \$65,000, "Enhancement of Organizational Memory for Industrial Engineering Applications."

**Lempert, Laszlo;** mathematics, from National Science Foundation, \$104,381, "Complex Analysis and Geometry; Amendment 1 for Grant 105880."

**Li, Ninghui and Qi, Yuan;** computer science, from IBM, \$100,000, "IBM Analytics."

**Lin, Hui-Mei;** food science, from Multi-Sponsored Industrials, \$8,500, "Multi-Sponsored Gift."

**Lister, Matthew L;** physics, from Smithsonian Astrophysical Observatory, \$62,200, "Probing the Causes of the High/Low Jet Power Dichotomy in AGN Jets with Chandra and HST."

**Litster, James D;** chemical engineering, from University of Sheffield, \$203,790, "Design Models for Wet Granulation."

**Lopez, Roberto G;** horticulture & landscape architecture, from American Floral Endowment, \$549, "Floriculture Forum."

**Lopez, Roberto G;** horticulture & landscape architecture, from American Floral Endowment, \$2,500, "Floriculture Forum."

**Lopez, Roberto G;** horticulture & landscape architecture, from American Floral Endowment, \$600, "Floriculture Forum."

**Love, David J;** electrical & computer engineering, from Samsung Electronics Co., Ltd, \$95,000, "Large-Scale MIMO Techniques for Next Generation Cellular Communication Systems."

**Low, Philip S;** chemistry, from Endocyte, Inc., \$205,828, "Folate Chemo: Novel, Non-Toxic, Delivery of Chemotherapeutic-Development of Targeted Therapeutics for Cancer and Inflammation."

**Lowenberg-DeBoer, James M and Abbott, Philip C;** agricultural economics, from Stinger Ghaffarian Technologies, \$465, "(20 Mod 0) Modification 2 to Subcontract 12-204 — Value of Hyperspectral Remote Sensing Information for US Agriculture [Grant 106298]."

**Lowenberg-DeBoer, James M and Baributsa, Dieudonne;** International Programs in Agriculture, entomology, from US Agency for International Development, \$149,500, "Developing the Market for PICS Bags in Rwanda and Neighboring Countries."

**Lowenberg-DeBoer, James M and Abbott, Philip C;** agricultural economics, from Stinger Ghaffarian Technologies, \$5,155, "Task Order 20 Mod. No. 3 for Grant 106298."

**Lowenberg-DeBoer, James M and Abbott, Philip C;** agricultural economics, from Stinger Ghaffarian Technologies, \$2,534, "Task Order 20 Mod. No. 2 for Grant 106298."

**Lundstrom, Mark S;** electrical & computer engineering, from Multi-Sponsored Industrials, \$75,000, "Network for Computational Nanotechnology (NCN) Membership."

**Lundstrom, Mark S; Agrawal, Rakesh; Alam, Muhammad A; Garimella, Suresh V and Sharma, Pankaj;** college of engineering administration engineering experiment, chemical engineering, electrical & computer engineering, mechanical engineering, from National Renewable Energy Laboratory, \$254,997, "Solar Energy Research Institute for Indian and the United States (SERIUS)." (a Discovery Park award — Energy Center)

**Lynall, Matthew D;** management, from Purdue University, \$2,652, "Krannerts Experiential Learning Initiative (ELI)."

**Ma, Jianxin and Hughes, Teresa J;** agronomy, botany & plant pathology, from Indiana Soybean Alliance, \$74,394, "Enhancement of Soybean Resistance to Phytophthora Sojae by Gene Pyramiding."

**Marais, Karen;** aeronautical & astronautical engineering, from Aero Institute, \$950, "Undergraduate Flight Training."

**Martinez, Kimber J;** youth development & agricultural education, from Texas Migrant Council Inc, \$2,000, "Agreement Between MESA and Texas Migrant Council, Inc."

**Martinez, Kimber J;** youth development & agricultural education, from Indiana Coalition Against Domestic Violence, \$40,040, "MESA LGBTQ Outreach."

**Matson, Eric T;** computer & information technology, from Pohang University of Science & Technology, \$280,000, "Joint Curriculum Development on Systems, Engineering and Project Management (SE/PM) for Plant Systems."

**Meilan, Richard;** forestry & natural resources, from Futuragene, Inc., \$50,000, "Futuragene Transformation Optimization."

**Meilan, Richard;** forestry & natural resources, from Hoosier Energy, \$69,841, "Voluntary Support - HE- Poplar Ion."

**Meilan, Richard;** forestry & natural resources, from Futuragene, Inc., \$60,000, "Field Testing Futuragene."

**Michler, Charles H;** forestry & natural resources, from Indiana Chapter American Chestnut Foundation, \$2,000, "Voluntary Support — American Chestnut."

**Michler, Charles H;** forestry & natural resources, from Indiana Chapter American Chestnut Foundation, \$2,500, "Voluntary Support — American Chestnut."

**Michler, Charles H;** forestry & natural resources, from Indiana Chapter American Chestnut Foundation, \$1,000, "Voluntary Support — American Chestnut."

**Michler, Charles H;** forestry & natural resources, from Indiana Chapter American Chestnut Foundation, \$2,000, "Voluntary Support — American Chestnut."

**Miller, Brian K;** forestry & natural resources, from University of Illinois at Champaign-Urbana, \$202,952, "Amendment 7 for Illinois-Indiana Sea Grant College Program Omnibus."

**Mutchler, Jane F;** management — Calumet campus, from Indiana Economic Development Corporation, \$213,090, "Northwest Indiana Small Business Development Center 2013 (Federal Funds & PUC/PNC Cash Match)."

**Mutchler, Jane F;** management — Calumet campus, from Multi-Sponsored Industrials, \$15,000, "Northwest Indiana Small Business Development Center- IUN Cash Match Support."

**Nielsen, Robert L; Camberato, James J; Faghihi, Jamal and Wise, Kiersten A;** agronomy, entomology, botany & plant pathology, from Indiana Corn Marketing Council, \$92,070, "Field-Scale and on-Farm Research to Identify Production Practices that Improve Yield, Profitability, and Sustainability of Commercial Dent Corn in Indiana."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$75, "Multi-Sponsored Gift Funds."

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**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$150, "Multi-Sponsored Gift Funds."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$50, "Multi-Sponsored Gift."

**Nielsen, S S;** food science, from Multi-Sponsored Industrials, \$75, "Multi-Sponsored Gift."

**Nolte, David D and Turek, John J;** physics, basic medical science, from National Science Foundation, \$445,785, "Three-Dimensional Tissue Dynamics Imaging."

**Nolte, David D;** physics, from National Science Foundation, \$50,000, "I-Corps Team: Biodynamic Imaging Platform."

**Olek, Jan;** civil engineering, from Indiana Department of Transportation, \$145,000, "North Central Superpave Center SPR-2042."

**Otto, Kevin J;** biological sciences, from Defense Advanced Research Projects Agency, \$148,517, "Normal and Accelerated Failure Assessment of New Quantitative in Vitro and in Vivo Neural Interfaces; Modification 5 for Grant 105205."

**Panitch, Alyssa and Park, Kinam;** biomedical engineering, from PHS-NIH National Heart, Lung & Blood Institute, \$335,218, "Improved Therapeutics for Drug Eluting Stents."

**Park, Kinam;** biomedical engineering, from Indiana University School of Medicine, \$67,874, "Exercise, Diabetes, & Coronary Smooth Muscle Ca2+."

**Patton, Aaron J;** agronomy, from Dow Agro Sciences, \$54,000, "Service and Site Agreement with Dow Agrosience, LLC."

**Patton, Aaron J;** agronomy, from Midwest Regional Turf Foundation, \$14,500, "Turf-grass Research."

**Patton, Aaron J;** agronomy, from Midwest Regional Turf Foundation, \$7,500, "MRTF Extension & Research."

**Peeta, Srinivas;** engineering administration engineering experiment, from U.S. Department of Transportation, \$3,397,600, "NEXTRANS - Integrated and Sustainable Transportation Solutions: From Concepts to Deployment." (a Discovery Park award — Discovery Park Administration)

**Pelaez, Nancy;** biological sciences, from Washington & Lee University, \$19,148, "Toads, Roads, and Nodes: Collaborative Course-Based Research on the Landscape Ecology of Amphibian Populations."

**Peroulis, Dimitrios**; electrical & computer engineering, from University of California - San Diego, \$50,000, "Long-Term Creep Characterization and Analysis on High Power Radio Frequency (RF) Microelectromechanical System (MEMS) Switches." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from Flowserve Corp, \$7,000, "Flowserve." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from Multi-Sponsored Industrials, \$37,500, "Center for Electronic Defense Systems."

**Peroulis, Dimitrios**; electrical & computer engineering, from Flowserve Corp, \$7,000, "Flowserve." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from Flowserve Corp, \$7,000, "Flowserve."

**Peroulis, Dimitrios**; electrical & computer engineering, from Laserlith Corp, \$25,000, "Laserlith." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from American University of the Middle East, \$5,000, "AUM Project."

**Peroulis, Dimitrios**; electrical & computer engineering, from IMA Life, \$8,300, "IMA Life." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios**; electrical & computer engineering, from Microassembly Technologies Inc, \$25,000, "Microassembly Technologies, Inc." (a Discovery Park award — Birk Nanotechnology Center)

**Pipes, R Byron**; aeronautical & astronautical engineering, from Defense Advanced Research Projects Agency, \$131,984, "Simulation for Composites Certification and Manufacturing." (a Discovery Park award - Institute for Defense Initiatives)

**Pogranichniy, Roman M**; Animal Disease Diagnostic Laboratory, from Kansas State University, \$37,500, "PRRS CAP Host Genetics: Characterization of Host Factors that Contribute to PRRS Disease Resistance and Susceptibility."

**Pogranichniy, Roman M**; Animal Disease Diagnostic Laboratory, from Kansas State University, \$45,000, "PRRS CAP Host Genetics: Characterization of Host Factors that Contribute to PRRS Disease Resistance and Susceptibility."

**Pourpoint, Timothee L**; aeronautical & astronautical engineering, from Giner Electrochemical System LLC, \$30,000, "Light-weight Fuel Cell with Thermal Generation of Reactants."

**Rainey, Katherine M and Casteel, Shaun N**; agronomy, from Smithbucklin Corp, \$123,133, "Clarifying the Genetic Architecture of Components of Yield with SoyNAM."

**Rapoport, Anatoli; Brule, David J and Connaughton, Stacey L**; curriculum & instruction, political science, communication, from U.S. Department of State, \$225,000, "Benjamin Franklin Transatlantic Summer Institute."

**Ratliff, Timothy L**; Cancer Research Center, from Walther Cancer Institute Foundation Inc, \$100,000, "Development of Research with Affecting Cancer Together."

**Reklaitis, Gintaras V**; chemical engineering, from Rutgers State University, \$169,437, "Engineering Research Center on Structural Organic Composites-Industrial."

**Rich, Jane M**; continuing studies — Fort Wayne campus, from Indiana Economic Development Corporation, \$206,136, "Northeast Indiana Small Business Development Center 2013 (Federal Funds)."

**Richards, Elizabeth A and Ogata, Niwako**; nursing, veterinary clinical science, from AKC Canine Health Foundation, Inc., \$12,928, "Dogs, Physical Activity, and Walking (Dogs PAW)."

**Richardson, James E**; earth & atmospheric sciences, from National Aeronautics and Space Administration, \$66,938, "Investigating the Seismic Contribution of Meteoritic Impacts to the Current Seismicity of Mars and its Potential for Exploration of the Martian Interior-Grant 105283."

**Rickus, Jenna L**; agricultural & biological engineering, from National Aeronautics and Space Administration, \$70,000, "SporeSat Mission: Investigating Biophysical Mechanisms of Plant Gravisensing Using a Lab-on-a-Chip Approach; Supplement 6 for Grant 105267."

**Rochet, Jean-Christophe**; medicinal chemistry & molecular pharmacology, from Purdue University, \$50,000, "1213 Office of the Vice President for Research (OVPR) Bridge Funding for Membrane Binding & Aggregation of Alpha-Synuclein."

**Rogers, Marcus K**; computer & information technology, from Multi-Sponsored Industrials, \$500, "Forensic Seminars."

**Rokhinson, Leonid P**; physics, from Purdue Research Foundation: XR Grants, \$17,287, "Purdue Center for Topological Materials."

**Sadeghi, Farshid**; mechanical engineering, from Tecumseh Compressor Group, \$70,000, "Tribology Lab Research."

**Saeedifard, Maryam**; electrical & computer engineering, from General Electric Company, \$67,813, "Analysis, Modeling, and Control of Modular Multi-Level Converter (MMC) Configurations for High Voltage Direct Current (HVDC) Applications Part of the GE EDISON Agreement."

**Saha, Shubin K**; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$600, "Multi Sponsored Gift Account."

**Saha, Shubin K**; horticulture & landscape architecture, from Teva Corporation, \$6,000, "Fertilizer Gift Account."

**Saha, Shubin K**; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$1,000, "Multi Sponsored Gift Account."

**Saha, Shubin K**; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$750, "Multi Sponsored Gift Account."

**Saha, Shubin K**; horticulture & landscape architecture, from Multi-Sponsored Industrials, \$1,000, "Multi Sponsored Gift Account."

**Sangid, Michael D**; aeronautical & astronautical engineering, from Rolls-Royce Corporation, \$161,095, "External NCE Request for Grant 206229 . RR Proposal for Fatigue Modeling of RR1000."

**Schinckel, Allan P and Richert, Brian T**; animal sciences, from Topigs, \$42,236, "Evaluation of Growth, Feed Intake and Carcass Measurements of Pigs of Three Sire Lines."

**Schoenlein, William E**; biomedical engineering, from Medical Engineering & Development Institute Inc., \$199,599, "Stent Testing Agreement Studies: CI-POC, CE-POC, MED-POC Addendum to Grant 203133."

**Schoorman, F D**; management, from North Carolina State University, \$99,733, "Cross-Cultural Investigation of Organizational Trust."

**Scott, David E**; Indiana State Chemist, from Environmental Protection Agency, \$29,927, "U.S. Environmental Protection Agency Region 5 Laboratory Workshop."

**Scott-Moncrieff, Joanna C; Heng, Hock Gan and Weng, Hsin-Yi;** veterinary clinical science, comparative pathobiology, from Hills Pet Nutrition, Inc., \$10,000, "Effect of a Limited Iodine Diet on Thyroidal Iodine Uptake in Hyperthyroid Cats."

**Sepulveda, Maria S and Mahapatra, Cecon T;** forestry & natural resources, from University of Connecticut, \$105,703, "The Combined Effects of Environmental and Anthropogenic Stressors on Fish Health."

**Shalaev, Vladimir M; Boltasseva, Alexandra and Narimanov, Evgueni E;** electrical & computer engineering, from Duke University, \$611,708, "Transformation Optical Metamaterials; Amendment 3." (a Discovery Park award — Birk Nanotechnology Center)

**Sheehan, Amy H;** pharmacy practice, from Eli Lilly and Company, \$85,300, "Joint FDA/ Industry/Academia Regulatory Pharmaceutical Fellowship-Drug Information-Lilly Portion."

**Shih, Tom I;** aeronautical & astronautical engineering, from GE Global Research Center, \$96,634, "Numerical Investigation of the Effects of Internal Flow Turbulators on Film Cooling with Various Hole Geometries."

**Shin, Yung C;** mechanical engineering, from National Science Foundation, \$144,551, "Collaborative Research: A Novel Multi-Pulse Laser Ablation and Plasma Amplification (LAPA) Process for Drilling Nonstraight Holes with Arbitrarily Varying Diameters."

**Shipsey, Ian P;** physics, from Eberle, Ann R, \$500, "High Energy Physics Project."

**Simpson, Garth J; Das, Chittaranjan and Qi, Minghao;** chemistry, electrical & computer engineering, from PHS-NIH National Center for Research Resource, \$149,111, "Nonlinear Optical Imaging for Guiding Protein Structure Determination." (a Discovery Park award — Bindley Bioscience Center)

**Simpson, Garth J;** chemistry, from PHS-NIH National Institute of General Medical Science, \$259,292, "Ultrafast Nonlinear Optical Approaches Toward High-Throughput Membrane Protein Nanocrystal Detection."

**Sivasankar, Preeti M and Snyder, Paul W;** speech, language and hearing sciences, comparative pathobiology, from National Institutes of Health, \$337,361, "Challenges to Vocal Fold Epithelia: Functional and Structural Consequences."

**Sloan, Mary Anne;** technical assistance program, from Multi-Sponsored Industrials, \$1,520, "Multi-Sponsor Account I-HITEC."

**Smith, Richard S;** food science, from Alcoa Inc, \$2,690, "Food Science Research."

**Smith, Richard S;** food science, from Alcoa Inc, \$3,000, "Food Science Research."

**Smith, Richard S;** food science, from Alcoa Inc, \$2,030, "Food Science Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$5,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,250, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$6,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$6,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,500, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$5,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$2,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Hinsdale Farms Ltd, \$3,000, "Sensory Evaluation Research."

**Son, Steven F;** mechanical engineering, from Pennsylvania State University, \$174,983, "Smart, Functional Nanoenergetics Design from the Atomistic/Molecular Scale through the Mesoscale; Amendment 1."

**Spafford, Eugene H;** computer science, from John Wiley & Sons Limited England, \$54,415, "Center for Education and Research in Information Assurance and Security (CERIAS) Voluntary Support."

**Spafford, Eugene H;** computer science, from John Wiley & Sons Limited England, \$60,000, "Special Projects."

**Stanciu, Lia A;** materials engineering, from Purdue Research Foundation: XR Grants, \$17,287, "Design of Biosensors for the Detection of Neglected Tropical Diseases."

**Sullivan, John P;** aeronautical & astronautical engineering, from University of Arizona, \$30,000, "Borders Proposal."

**Sullivan, John P;** aeronautical & astronautical engineering, from Brigham Young University, \$20,000, "Boeing Joint Design Course."

**Sullivan, John P;** aeronautical & astronautical engineering, from Brigham Young University, \$15,000, "Boeing Joint Design Course."

**Suter, Daniel M;** biological sciences, from National Science Foundation, \$6,000, "Research Experience for Undergraduates (REU) Supplement: Nanomechanics of Semiconductor Research Corporation (SRC) Signaling in Neuronal Growth Cones."

**Thompson, David H;** chemistry, from Pandion Laboratories LLC, \$78,000, "Pandion Laboratories."

**Thompson, David H;** chemistry, from Pandion Laboratories LLC, \$6,500, "Pandion Laboratories."

**Thompson, Leslie E;** biological sciences — Calumet campus, from Indiana Department of Natural Resources, \$1,455, "Coastal Awareness Month: Celebrate the Coast: Fresh, Water, Fun."

**Thomson, Kendall T;** chemical engineering, from Eli Lilly and Company, \$15,000, "Computational Study of Intermediates in Copper-Catalyzed C-N Bond-Forming Reactions."

**Tomar, Vikas;** aeronautical & astronautical engineering, from National Science Foundation, \$17,125, "A Combined Quantum Mechanical and Experimental Study of Interfacial Biomaterial Mechanics."

**Tomar, Vikas;** aeronautical & astronautical engineering, from National Science Foundation, \$10,000, "Research Experience for Undergraduates (REU): A Combined Quantum Mechanical and Experimental Study of Interfacial Biomaterial Mechanis."

**Topp, Elizabeth M; Lill, Markus A; Park, Chiwook and Regnier, Fred E;** industrial & physical pharmacy, medicinal chemistry & molecular pharmacology, chemistry, from PHS-NIH National Institute of General Medical Science, \$298,458, "Protein Aggregation in Amorphous Solids."

**Townsend, Wendy M; Taylor, Latisha N; Heng, Hock Gan and Stiles, Jean;** veterinary clinical science, from Acvo Vision for Animals Foundation, \$4,582, "Comparison of Ultrasound Biomicroscopy and Standard Ocular Ultrasonography for Detection of Canine Uveal Cysts."

**Tyner, Wallace E and Taheripour, Farzad;** agricultural economics, from Monsanto Company, \$68,000, "Economic Analysis of Corn Replacement Feed."

**Umulis, David M;** agricultural & biological engineering, from University of Minnesota, \$74,059, "Dynamic Pattern in Chemically Reacting Systems."

**Vijaykumar, T N;** electrical & computer engineering, from Google Inc, \$41,000, "Google."

**Vitek, Jan;** computer science, from Oracle Corporation, \$20,000, "Oracle America."

**Vyn, Tony J;** agronomy, from Fluid Fertilizer Foundation, \$20,000, "Agricultural Cropping Systems."

**Vyn, Tony J; Camberato, James J; Joern, Brad C and Omonode, Rex A;** agronomy, from Farm Pilot Project Coordination Inc, \$94,900, "Reducing Nitrous Oxide Emissions in Corn Production by Optimized Manure and Fertilizer N Applications Combined with Nitrification Inhibitor Use."

**Vyn, Tony J;** agronomy, from Monsanto Company, \$90,000, "Corn Physiology Fund."

**Wachs, Juan P;** industrial engineering, from Air Force Office of Scientific Research, \$119,741, "Embodied Interaction in Human-Machine Decision Making for Situation Awareness Enhancement Systems."

**Wang, Chih-Chun;** electrical & computer engineering, from National Science Foundation, \$85,037, "Faculty Early Career Development (CAREER): Next Generation Network Coding: Distributed Design via Coded Feedback - Amend 2 for Grant 103598."

**Wang, Xiuling;** mechanical engineering — Calumet campus, from Los Alamos National Laboratory, \$12,000, "Continued Efforts for Developing KIVA-hpFE Package."

**Wasserman, Adam;** chemistry, from Alfred P. Sloan Foundation, \$50,000, "Alfred P. Sloan Foundation Fellowship for Adam Wasserman."

**Weaver, Connie M;** nutrition science, from Kraft Foods Global, Inc, \$6,000, "Corporate Affiliates Fund."

**Weaver, Connie M;** nutrition science, from Kraft Foods Global, Inc, \$6,000, "Corporate Affiliates Fund."

**Weaver, Kyle E;** field extension educators, from Switzerland County Awareness Team, \$500, "10th Grade Leadership Program."

**Weil, Clifford F and Doerge, Rebecca W;** agronomy, statistics, from University of Missouri-Columbia, \$347,016, "Genetic and Genomic Approaches to Understanding Long-Distance Transport and Carbon Partitioning in Plants; Amendment 2."

**Weiss, William J and Zavattieri, Pablo D;** civil engineering, from IllinoisRocstar LLC, \$65,000, "Field Assessment of Materials for Use in Ultra-High-Performance Concrete."

**Weiss, William J;** civil engineering, from Indiana Department of Transportation, \$150,000, "Documentation of the Construction of Indots Experience with the Bridge Decks Containing Internal Curing in 2013."

**Weiss, William J;** civil engineering, from Indiana Department of Transportation, \$27,000, "Evaluation of Test Methods for Permeability (Transport) and Development of Performance Guidelines for Durability - SPR 3280."

**West, Terry R;** earth & atmospheric sciences, from West, Terry R. & Shirley (Indiv Donor), \$200, "AEG Travel."

**Westphal Benefiel, Melissa A;** development office — North Central Campus, from Michigan City Community Enrichment Corp, \$5,000, "Purdue University North Central Sinai Forum 2013-2014 Season."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc, \$150, "Purdue Pesticide Programs."

**Whitford, Fred;** botany & plant pathology, from Professional Landcare Network Inc, \$250, "Purdue Pesticide Programs."

**Whiting, Nancy M;** civil engineering, from Indiana Department of Transportation, \$55,219, "Hydraulic Fracture Test to Determine Aggregate Freeze-Thaw Durability, SPR-3402 - Grant 204372."

**Wise, Kiersten A;** botany & plant pathology, from E.I. du Pont de Nemours and Company, \$200, "Voluntary Support Account."

**Xu, Dongyan;** computer science, from Air Force Office of Scientific Research, \$37,500, "An Integrated Architecture for Automatic Indication, Avoidance and Profiling of Kernel Rootkit Attacks - Mod 3 for Grant 104442."

**Ye, Peide;** electrical & computer engineering, from Semiconductor Research Corporation, \$100,000, "InAs/GaSb Based Nanoscale 3-D III-V CMOS; Grant 205921; NCE to 4.30.14."

**Yi, Ji Soo;** industrial engineering, from Google Inc, \$47,180, "Google Awards: Visualization Intuitiveness."

**Zaspel, Jennifer M and Holland, Jeffrey D;** entomology, from National Science Foundation, \$93,096, "Collaborative Research: Digitization Technology Computer Network (TCN): InvertNet-an Integrative Platform for Research on Environmental Change, Species Discovery and Identification."

**Zhang, Hao;** statistics, from International Plant Nutrition Institute, \$10,000, "International Plant Nutrition Institute."

**Zhou, Chenn Q and Wu, Bin;** Center for Innovation thru Visualization & Simulation, from LHP International LLC, \$16,807, "Numerical Simulation of a Diesel Engine Exhaust Manifold."

**Zhou, Chenn Q and Wu, Bin;** Center for Innovation thru Visualization & Simulation, from Berry Metal Company, \$40,684, "Analysis of the Blast Furnace Process on Copper Stave Linings."

**Zillich, Alan J;** pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$5,849, "Heather Jaynes Intergovernmental Personnel Assignment (IPA)." ■

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