

# DIMENSIONS *of* DISCOVERY

## Sponsored Program Awards

December 2009

**Abel, Steven R;** pharmacy practice, from B&D Consulting, \$20,000, "A Comprehensive Literature Review and Market Scan of the Online Pharmaceutical Sales Marketplace."

**Adams, Douglas E;** mechanical engineering, from CACI International Inc., \$135,000, "Development and Testing of Innovative Health Management Tools for Damage Detection, Evaluation, and Repair of the CH-53K Composite Rotor Blades & Structures."

**Adams, Douglas E;** mechanical engineering, from General Dynamics Information Technology Inc., \$18,960, "Modeling and Simulation of Degraded System Performance Based on Degraded Subsystem Performance."

**Adams, Larry G;** veterinary clinical science, from SCVIM, Inc., \$850, "SPS Clinical Urology."

**Adeola, Olayiwola;** animal sciences, from Danisco Animal Nutrition, \$10,000, "Poultry Research."

**Agee, Ernest M;** earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$11,045, "Fellowship"

**Agnew, Christopher R;** psychological sciences, from Oregon State University, \$41,414, "Relationship Dynamics and Sexual Risk Behaviors."

**Agrawal, Rakesh;** chemical engineering, from U.S. Department of Energy, \$225,000, "A Low-Cost, High-Yield Process for the Direct Production of High Energy Density Liquid Fuel – Mod 1."

**Agrawal, Rakesh and Gore, Jay P;** chemical engineering, mechanical engineering, from Air Force Office of Scientific Research, \$768,320, "Experimental Studies of Coal and Biomass Fuel Synthesis and Flame Characterization for Aircraft Engines (Year Two)." (a Discovery Park award — Energy Center)

**Ajuwon, Kolapo;** animal sciences, from DSM Nutritional Products, Inc., \$30,000, "DSM Poultry Research."

**Alam, Muhammad A;** electrical & computer engineering, from Texas Instruments, Inc., \$50,000, "Texas Instruments Gift."

**Alam, Muhammad A;** electrical & computer engineering, from Intel Corporation, \$25,000, "Intel Corporation Gift."

**Aldrich, Daniel P;** political science, from Japan Foundation Center for Global Partnership, \$9,355, "Building Resilience Post-Disaster Recovery in International Perspective." (a Discovery Park award — Purdue Climate Change Research Center)

**Amberg, Jon J and Sepulveda, Maria S;** forestry & natural resources, from Indiana Soybean Alliance, \$67,881, "Increasing the Amount of Soybean Meal in Diets for Yellow Perch."

**Anderson, William E;** aeronautical & astronautical engineering, from University of Maryland, \$68,985, "Project Constellation Modification J."

**Baldwin, Michael E;** earth & atmospheric sciences, from National Science Foundation, \$40,500, "National Science Foundation Graduate Research Fellowship-Benjamin Schwedler."

**Banuelos, Rodrigo;** mathematics, from National Science Foundation, \$40,500, "NSF Graduate Research Fellowship."

**Bauman, Thomas T;** botany & plant pathology, from Makhteshim-Agan of North America, Inc., \$6,000, "Weed Research."

**Bauman, Thomas T;** botany & plant pathology, from Winfield Solutions LLC, \$6,000, "Weed Research."

**Bauman, Thomas T;** botany & plant pathology, from AMVAC Chemical Corporation, \$5,000, "Weed Research."

**Bauman, Thomas T;** botany & plant pathology, from BASF Corporation, \$6,000, "Weed Research."

**Bauman, Thomas T;** botany & plant pathology, from Helena Chemical Company, \$2,500, "Weed Research."

**Bauman, Thomas T;** botany & plant pathology, from E.I. DuPont de Nemours and Company, \$6,000, "Weed Research."

**Bayley, William G;** chemistry, from Covington Community School Corp, \$300, "Instrumentation Van Project."

**Bayley, William G;** chemistry, from Metropolitan School District of Warren Township, \$300, "Instrumentation Van Project."

**Beard, Jane A;** field extension educators, from Daviess County Sheriffs Department, \$45,000, "Daviess County Learning Network Support."

**Bertoline, Gary R and Song, Xiaohui C;** College of Technology – Administration, Rosen Center for Advanced Computing, from University of Chicago, \$344,280, "Tera Grid GIG Year 5."

**Bigelow, Cale A;** agronomy, from Precision Laboratories Inc., \$3,500, "Putting Greens Research."

**Bolton, J S and Davies, Patricia;** mechanical engineering, from Cummins Engine Company Inc., \$30,493, "Determination of Platform-Dependent Combustion Noise Transfer Function in Conventional Test-Cell Environments."

**Bortoletto, Daniela;** physics, from Fermi National Accelerator Laboratory, \$11,446, "URA Fellowship — Search for Associated Higgs Boson Production in the MET+Jets Channel."

**Boutin, Mireille;** electrical & computer engineering, from Intel Corporation, \$20,000, "Computational Imaging Lab."

**Bowen, Brenda B;** earth & atmospheric sciences, from U.S. Department of Energy, \$299,920, "Training Students to Analyze Spatial and Temporal Heterogeneities in Reservoir and Seal Petrology, Mineralogy, and Geochemistry: Implications for CO<sub>2</sub>."

**Bowlby, Krista L;** field extension educators, from RushShelby Energy Rural Electric Community Fund, Inc., \$1,907, "Display Units."

**Bozic, Christy L;** Kokomo statewide technology, from City of Kokomo, \$5,000, "Renewable Energy Lab Proposal."

**Bressan, Ray A;** horticulture & landscape architecture, from King Abdullah University of Science and Technology, \$120,000, "KAUST Bench Fees."

**Briggs, Scott D;** biochemistry, from PHS-NIH National Institute of General Medical Science, \$229,263, "The Role of Set 1-Mediated Methylation in Chromatin Function."

**Brown, Paul B and Rode, Robert A;** forestry & natural resources, from Indiana Soybean Alliance, \$30,119, "On-Farm Hybrid Striped Bass (Morone Chrysops X M. Saxatilis) and Largemouth Bass (Micropterus Salmoides) Nutrition Study."

**Bullock, Darcy M;** civil engineering, from Indiana Department of Transportation, \$120,000, "Recovering Full Repair Costs of INDOT Infrastructure Damaged by Motor Vehicle Crashes, SPR-3411."

**Caruthers, James M and Dietz, James E;** chemical engineering, computer & information technology, from U.S. Department of Energy, \$6,135,839, "Indiana Advanced Electric Vehicle Education and Training Consortium." (a Discovery Park award — Energy Center)

**Carvajal, Teresa M and Koslowski, Marisol;** industrial & physical pharmacy, mechanical engineering, from Hoffmann-La Roche Inc., \$50,000, "Fundamental Investigation Unraveling API Material Properties and Tuning for Milling Purdue Graduate Student Research Agreement."

**Chakrabarti, Raj;** chemical engineering, from Chakrabarti Foundation, \$100,000, "Charkrabarti Foundation Voluntary Support."

**Chaubey, Indrajeet;** agricultural & biological engineering, from National Science Foundation, \$40,500, "2009 National Science Foundation Graduate Reserach Fellowship."

**Cheng, Heng-Wei;** animal sciences, from Agricultural Research Service, \$7,294, "Acquisition of Goods and Services."

**Constable, Peter D;** veterinary clinical science, from VCA Antech Inc., \$8,393, "Radiology Residency Support."

**Constable, Peter D;** veterinary clinical science, from Magrane Animal Hospital PC, \$8,384, "Support for Ophthalmology Residency."

**Cooper, James A;** electrical and computer engineering, from Auburn University, \$46,427, "Investigation of Electrostatic Interface Smoothing in 4H-SiC." (a Discovery Park award — Birck Nanotechnology Center)

**Coppoc, Gordon L;** basic medical science, from IU School of Medicine, \$2,000, "Indiana University School of Medicine-Lafayette-Hospitality Expenses."

**Crawford, Melba M;** civil engineering, from Inha University, \$23,687, "Classification of Remotely Sensed Data via Multisensor Fusion."

**Crossley, William A;** aeronautical & astronautical engineering, from Massachusetts Institute of Technology, \$21,000, "Advanced Multidisciplinary Optimization Techniques for Efficient Subsonic Aircraft Design — Amendment 3."

**Davis, Susan B;** office of engagement, from Indiana Small Business Development Center, \$23,809, "Hoosier Heartland Regional Center - Federal Funds Carryover CY 2009."

**Davis, Susan B;** office of engagement, from Indiana Small Business Development Center, \$21,817, "Hoosier Heartland Small Business Development Center - Additional Federal Funds CY 2009."

**Doudareva, Natalia and Rhodes, David;** horticulture & landscape architecture, from National Institute of Food & Agriculture, \$350,000, "Phenylalanine Biosynthesis and Regulation in Petunia Flowers."

**Drnevich, Vincent P;** civil engineering, from Purdue Research Foundation, \$10,000, "JTRP Supplementary Research Account."

**Duchatelet, Martine;** management — Calumet campus, from Indiana Small Business Development Center, \$1,924, "Northwest Indiana Small Business Development Center 2009."

**Ebert, David S;** electrical & computer engineering, from Charles F Day & Association LLC, \$15,000, "Charles F. Day Voluntary Support." (a Discovery Park award — Discovery Park Administration)

**Egel, Daniel S;** botany & plant pathology, from Agraquest, Inc., \$1,500, "Potassium Management."

**Eigenmann, Rudolf;** electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,750, "NEES Operations."

**Ejeta, Gebisa;** agronomy, from University of Nebraska, \$100,000, "Biotechnological Approaches to Genetic Analyses and Exploitation of Striga Resistance in Crop Plants."

**Ejeta, Gebisa;** agronomy, from University of Nebraska, \$105,000, "Breeding Sorghum for Improved Resistance to Striga and Drought in Africa."

**Engel, Bernard A;** agricultural & biological engineering, from National Science Foundation, \$40,500, "2007 National Science Foundation Graduate Research Fellowship."

**Farnsworth, Richard L;** forestry & natural resources, from Illinois Cooperative Extension Service, \$44,124, "Agreement Between PU and Illinois Cooperative Service, University of Illinois."

**Ferris, Virginia R;** entomology, from E.I. DuPont Denemours and Company, \$14,000, "Cyst Nematode Program."

**Field, William E;** agricultural & biological engineering, from Sigma Alpha, \$400, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Michele Schermann, \$100, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Purdue University Student Organizations, \$77, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Ronald C or Elaine H Jester, \$30, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from David Glamm, \$40, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Edward R Kirkpatrick, \$100, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from William Booker, \$105, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Carl M or Joce A Jenkins, \$85, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Lesli Lennier, \$40, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Robert (Chip) E Petrea, \$130, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from James R or Shelly Dee Jepsen, \$40, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Eric O Olson, \$35, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Randy R or Stephanie A Weigel, \$105, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from William E. Field (Individual Donor), \$180, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Douglas Kingman, \$45, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Robert or Susan Aherin, \$135, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Hubert B Von Holten, \$315, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from NEC Foundation of America, \$50,000, "NEC Foundation of America: Nationwide Assistive Technology Awareness/Education Program for Rural Youth."

**Field, William E;** agricultural & biological engineering, from Kathleen J or Tony H Griffin, \$45, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Craig W. Heckathorne, \$600, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Craig W. Heckathorne, \$25, "Breaking New Ground."

**Fields, William L;** statewide technology administration, from Maureen Gaedy, \$80, "Breaking New Ground."

**Foster, Ricky E;** entomology, from E.I. DuPont de Nemours and Company, \$4,000, "Vegetable & Fruit Research."

**Freed, Andrew M;** earth & atmospheric sciences, from U.S. Geological Survey, \$59,525, "Contemporary Stressing of the Alaskan Crust from Coseismic, Postseismic, and Interseismic Processes."

**Fricker, Jon D;** civil engineering, from Indiana Department of Transportation, \$186,298, "Cost-Effective Data Collection to Support INDOT's Mission, SPR-3432."

**Frosch, Robert J and Bobet, Antonio;** civil engineering, from Indiana Department of Transportation, \$189,226, "Reduction of Bridge Construction and Maintenance Costs through Coupled Geotechnical and Structural Design of Integral Abutment Bridges, SPR-3318."

**Garimella, Suresh V;** mechanical engineering, from Aavid Thermalloy, \$7,500, "CTRC Membership."

**Garimella, Suresh V;** mechanical engineering, from Apple Computer, \$30,000, "2010 CTRC."

**Garimella, Suresh V;** mechanical engineering, from Sharp Electronics Corporation, \$30,000, "CTRC."

**Garimella, Suresh V;** mechanical engineering, from Sandia National Laboratories, \$30,000, "CTRC."

**Garimella, Suresh V;** mechanical engineering, from Raytheon, \$337,133, "Purchase Order 4400274345 Version No. 1 to Grant 103054."

**Geahlen, Robert L and Tao, Weiguo A;** medicinal chemistry & molecular pharmacology, biochemistry, from PHS-NIH National Cancer Institute, \$275,445, "Sky and Associated Proteins in Breast Cancer."

**Ghiselli, Richard F;** hospitality & tourism, from Winifred B. Bilsland Endowment, \$8,786, "Fellowship."

**Ghiselli, Richard F;** hospitality & tourism, from Winifred B. Bilsland Endowment, \$9,468, "Fellowship."

**Giordano, Nicholas J;** physics, from Winifred B. Bilsland Endowment, \$9,468, "Fellowship."

**Gore, Jay P; Kramer, Robert A; Varma, Arvind and Ramachandran, PV;** mechanical engineering, Graduate School, chemical engineering, chemistry, from U.S. Department of Energy, \$951,500, "Purdue Hydrogen Technology Program." (a Discovery Park award — Energy Center, Energy Center — Calumet campus)

**Gray, Juleann;** field extension educators, from March of Dimes Birth Defects Foundation, \$300, "Have a Healthy Baby—Marion County."

**Haghighi, Kamyar;** engineering education, from S D Bechtel Jr., \$1,000,000, "Renewal of a \$1,000,000 Personal Operating Grant for the Second Year of the Institute for P-12 Engineering Research and Learning (INSPIRE)."

**Hamaker, Bruce R;** food science, from University of Nebraska-Lincoln, \$103,300, "Product and Market Development for Sorghum and Pearl Millet in West Africa-PRF-102."

**Han, Bumsoo;** mechanical engineering, from National Science Foundation, \$285,302, "CAREER: Multi-Scale Cell-Fluid-Matrix Interactions During Freezing/Thawing of Biological Tissues."

**Harding, Melvyn D;** Educational Opportunities Program — Calumet campus, from Foundations of East Chicago, \$10,000, "Purdue University Calumet Educational Talent Search Program Proposal to Foundations of East Chicago."

**Haviarova, Eva;** forestry & natural resources, from DuBois County Area Development Corp., \$2,000, "Multi-Sponsored."

**Heathman, Gary C;** agronomy, from Agricultural Research Service, \$31,131, "Acquisition of Goods and Services."

**Heber, Albert J;** agricultural & biological engineering, from University of California — Davis, \$56,800, "Six Month Extension of the National Air Emissions Monitoring Study in Escalon, California."

**Hibberd, Charles A; Sepulveda, Maria S; Zollner, Patrick A; Owens, Phillip R and Engel, Bernard A;** College of Agriculture — Administration, forestry & natural resources, agronomy, agricultural & biological engineering, from University of Illinois at Chicago, \$31,998, "Illinois-Indiana Sea Grant College Program Omnibus 2008-2010."

**Hillhouse, Hugh W;** chemical engineering, from Trask Trust Fund, \$100,000, "Prototype Development of Nanocrystal-Ink Based CIGSs Solar Cells."

**Hirleman, E D;** mechanical engineering, from Cummins Business Services, \$24,000, "Cummins Assistanships."

**Hirleman, E D;** mechanical engineering, from National Science Foundation, \$40,500, "NSF Fellowship."

**Hirleman, E D;** mechanical engineering, from National Science Foundation, \$40,500, "2007 National Science Foundation Graduate Research Fellowship Award."

**Hirleman, E D;** mechanical engineering, from National Science Foundation, \$40,500, "NSF Graduate Research Fellowship."

**Howell, Kathleen;** aeronautical & astronautical engineering, from National Science Foundation, \$40,500, "NSF Fellowship."

**Ileleji, Klein;** agricultural & biological engineering, from National Science Foundation, \$40,500, "RUTH PINTO - 2008 National Science Foundation Graduate Research Fellowship."

**Irfanoglu, Ayhan;** civil engineering, from Purdue Research Foundation: XR Grant, \$16,750, "NEES Operations."



**Irudayaraj, Joseph M;** agricultural and biological engineering, from PHS-NIH National Institute of Environment Health Science, \$296,614, "Chemical Mapping of Chromate Uptake, Localization, and Reduction in Remediating Bacteria Using Surface-Enhanced Raman Scattering Substrates." (a Discovery Park award — Birck Nanotechnology Center)

**Ishii, Mamoru; Hibiki, Takashi and Liu, Yang;** nuclear engineering, from Institute of Nuclear Safety Systems, Inc., \$52,500, "Study on Scale Effect on Gas-Liquid Two-Phase Flow."

**Ivantysynova, Monika;** agricultural & biological engineering, from AM General, \$49,462, "Prototype Design of a Hydraulic Hybrid Powertrain for LLV."

**Jang, Soo Cheong;** hospitality & tourism, from Youlchon Foundation, \$16,583, "Effects of Authenticity of Korean Restaurants on Consumers in the U.S."

**Jiang, Qing;** foods & nutrition, from PHS-NIH National Cancer Institute, \$179,111, "Gamma-Tocopherol as an Effective Anticancer Agent for Colon Cancer."

**Jiang, Wen;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$331,029, "Structural Basis of Bacteriophage T7 Assembly and DNA Packaging."

**Johnson, Mark C;** electrical & computer engineering, from Intel Corporation, \$54,000, "Embedded Systems Education."

**Johnson, William G;** botany & plant pathology, from E.I. DuPont de Nemours and Company, \$3,500, "Weed Research."

**Johnson, William G;** botany & plant pathology, from BASF Corporation, \$21,700, "Weed Research."

**Johnson, William G;** botany & plant pathology, from Winfield Solutions LLC, \$6,000, "Weed Research."

**Johnson, William G;** botany & plant pathology, from Dow Agrosiences, \$31,000, "Weed Research."

**Johnson, William G;** botany & plant pathology, from Valent U.S.A. Corporation, \$1,000, "Weed Research."

**Kappock, Thomas J;** biochemistry, from Thomas J (III) & Barbara J Kappock, \$12,000, "Kappock Research."

**Kentamaa, Hilka I;** chemistry, from Winifred B. Bilsland Endowment, \$9,468, "Fellowship."

**Koverman, Donald F;** Office of Engagement, from Indiana Arts Commission, \$4,500, "Indiana Arts Commission."

**Krockover, Gerald H and Bayley, William G;** curriculum and instruction, chemistry, from Indiana Commission for Higher Education, \$182,761, "Standards Based Integrated Science Instruction for the Middle Grades." (a Discovery Park award — Discovery Learning Research Center)

**Latin, Richard X;** botany & plant pathology, from Valent U.S.A. Corporation, \$3,000, "Turfgrass Disease Research."

**Lawson, Sharon M;** field extension educators, from United Way of Crawford County, \$600, "Project LEAD."

**Lay, Donald C;** animal sciences, from Agricultural Research Service, \$58,038, "Acquisition of Goods and Services."

**Liu, Julie C;** chemical engineering, from National Science Foundation, \$40,500, "Fellowship for Julie Kadrmas."

**Liu, Xiaoqi;** biochemistry, from Uniting Against Lung Cancer, \$100,000, "Validation of Polo-Like Kinase 1 (Plk1) as a Therapeutic Target in Small Cell Lung Cancer."

**Love, Dreema P;** child development & family studies, from American Psychological Association, \$1,000, "ACT Parents Raising Safe Kids."

**Luke, Eileen M;** CERIS, from Animal Plant Health Inspection Service, \$42,381, "National Agricultural Pest Information System (NAPIS)."

**Luke, Eileen M;** CERIS, from Animal Plant Health Inspection Service, \$429,945, "Excerpt Cooperative Agreement."

**Lundstrom, Mark S and Datta, Supriyo;** electrical & computer engineering, from Semiconductor Research Corporation, \$98,927, "Year 2 SRC Funding to Grant 203630." (a Discovery Park award — Network for Computational Nanotechnology)

**Lundstrom, Mark S;** electrical & computer engineering, from Semiconductor Research Corporation, \$75,000, "NCN Membership Agreement." (a Discovery Park award — Birck Nanotechnology Center)

**Mattes, Richard D;** foods & nutrition, from University of Georgia, \$80,015, "Peanut Consumption, Glycemia and Human Weight Management."

**Maynard, Elizabeth T;** horticulture & landscape architecture, from Sakata Seed America Inc., \$300, "Research for 1995 Vegetable Variety Trial Program."

**McCullough, Bobby G;** civil engineering, from Indiana Department of Transportation, \$38,653, "On-Line Design Mentoring Tool, SPR-3421."

**McCullough, Robert G;** anthropology — Fort Wayne campus, from Indiana University, \$5,200, "Geophysical Survey of the Hale-Spond Site in Clark County, Indiana."

**Meilan, Richard;** forestry & natural resources, from Consortium Plant Biotechnology Research, Inc., \$68,994, "Improving Water Relations of Populus for Use as a Bio-Energy Crop."

**Merwade, Venkatesh M and Troy, Cary D;** civil engineering, from Indiana Department of Transportation, \$103,936, "Analysis of IN-DOT's Current Hydraulic Policies, SPR-3405."

**Mitchell, Cary A;** horticulture & landscape architecture, from Wal-Mart Foundation, \$75,000, "Wal-Mart Foundation."

**Moore, George E;** comparative pathobiology, from Kevertin Pet Resort, Inc., \$100, "Canine GDV/Bloat Research."

**Morris, Sammie L;** library administration, from National Film Preservation Foundation, \$16,630, "Preservation of Frank and Lillian Gilbreth Films."

**Mosier, Nathan S;** agricultural & biological engineering, from National Science Foundation, \$40,500, "2007 National Science Foundation Graduate Research Fellowship."

**Negishi, Ei-Ichi;** chemistry, from PHS-NIH National Institute of General Medical Science, \$308,294, "Synthetic Reactions Catalyzed by Transition Metals."

**Neu, Corey P;** biomedical engineering, from National Science Foundation, \$40,500, "National Science Foundation (GRF)."

**Nyenhuis, John A;** electrical & computer engineering, from Aptus Endosystems, Inc., \$7,550, "Testing of RF Heating of a Bioness Lead in MRI."

**O'Connell, Kathleen L;** Office of Academic Affairs — Fort Wayne campus, from Affiliated Service Providers of Indiana, Inc., \$1,000, "Disaster Behavioral Health District 3."

**O'Connell, Kathleen L;** Office of Academic Affairs — Fort Wayne campus, from IU School of Medicine, \$276,000, "Northeast Indiana Area Health Education Center."

**Ott, Carol A;** pharmacy practice, from University of Texas, \$15,000, "Multi-State Medicaid Analysis: Comparative Economic Efficiency of Atypical Anti-Psychotics (AAPs) at Clinically Efficacious Doses."

**Ouzzani, Mourad; Aref, Walid G; Caruthers, James M; Gribskov, Michael R and Salt, David E;** Cyber Center, computer science, chemical engineering, biological sciences, horticulture & landscape architecture, from Purdue University Discovery Park Seed Grant Program, \$50,000, "Scientific Data Intensive Computing on the Cloud — a New Cyber Center Project." (a Discovery Park award — Cyber Center)

**Paarlberg, Philip L;** agricultural economics, from Animal Plant Health Inspection Service, \$50,000, "Estimating the Potential Economic Impact of Select Plant Pests."

**Peroulis, Dimitrios;** electrical & computer engineering, from Flowserve Corp., \$10,000, "Flowserve." (a Discovery Park award — Birk Nanotechnology Center)

**Peroulis, Dimitrios;** electrical & computer engineering, from Microassembly Technologies Inc., \$30,000, "Microassembly Technologies, Inc." (a Discovery Park award — Birk Nanotechnology Center)

**Perusich, Karl A;** South Bend-Elkhart statewide technology, from Scientific Methods, \$1,750, "Motor Controller for 10k RPM Centrifuge."

**Peters, Jerry L;** youth development & agricultural education, from Mercy Corps Scotland, \$48,318, "Agreement for the Management, Implementation and Co-ordination of: Helmand Agricultural Solutions for Improved Livelihoods (HASIL)."

**Peterson, John R;** physics, from Large Synoptic Survey Telescope Corporation, \$120,000, "Amendment No. 1 to Grant 203457."

**Pinal, Rodolfo;** industrial & physical pharmacy, from Abbott Laboratories, \$35,000, "Dane O. Kildsig Center for Pharmaceutical Processing Research Consortium."

**Porterfield, D. M;** agricultural & biological engineering, from Office of Naval Research, \$50,000, "A Novel Multi-Site Patchclamp Biochip for Electrophysiological Recordings on Retinal Tissue Cells." (a Discovery Park award — Bindley Bioscience Center)

**Porterfield, D. M;** agricultural & biological engineering, from Office of Naval Research, \$72,068, "A Novel Multi-Site Patchclamp Biochip for Electrophysiological Recordings on Retinal Tissue Cells." (a Discovery Park award — Bindley Bioscience Center)

**Pourpoint, Timothee L;** aeronautical & astronautical engineering, from General Motors Corp., \$50,000, "GM High Pressure Char of Hydrogen Adsoba."

**Powley, Terry L;** psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$469,938, "Autonomic Control of Body Weight and Feeding."

**Prezzi, Monica and Salgado, Rodrigo;** civil engineering, from Indiana Department of Transportation, \$185,350, "Assessment of the Performance of MSE Abutment Walls in Indiana, SPR-3319."

**Radcliffe, David F;** engineering education, from National Science Foundation, \$40,500, "NSF Graduate Research Fellowship."

**Radcliffe, John S;** animal sciences, from BASF Corporation, \$28,000, "Multi-Sponsored."

**Ramdas, Anant K;** physics, from A.K. & Vasantha L. Ramdas (Individual Donor), \$1,300, "Raman, Brillouin, Infrared & Modulation Spectroscopy of Tetrahedrally Coordinate Elemental Group IV, II-V & II-VI Semi-Conductors & Their Heterostructures."

**Rapoport, Anatoli; De Oliveira, Luciana; Nelson, Lynn R; Staver, Patricia L and Vanfosse, Phillip J;** curriculum & instruction, from American Councils for International Education, \$57,065, "Teachers to Teachers Workshop."

**Reicher, Zachary J;** agronomy, from Western Indiana Officials Association, \$100, "Turfgrass Research."

**Reicher, Zachary J; Bigelow, Cale A and Jiang, Yiwei;** agronomy, from Midwest Regional Turf Foundation, \$24,738, "Midwest Regional Turf Foundation."

**Rogers, Marcus K;** computer & information technology, from U.S. Attorney's Office, \$10,000, "Cyber Forensics Training Session-Boston."

**Rokhinson, Leonid P;** physics, from Army Research Office, \$334,960, "Digital Control of Exchange Interaction in a Spin-Based Silicon Quantum Computer."

**Rossmann, Michael G and Sun, Siyang;** biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$642,510, "Structural Studies of Bacteriophage T4."

**Schendel, Dan E;** management, from Strategic Management Society, \$2,202, "Strategic Management Society."

**Seal, Brandon L;** biomedical engineering, from National Science Foundation, \$40,500, "National Science Foundation (GRF)."

**Shao, Guofan;** forestry & natural resources, from Shanghai Internet Design Co., \$30,000, "State Forestry Administration Beijing China."

**Shukle, Richard H;** entomology, from Agricultural Research Service, \$13,786, "Acquisition of Goods and Services."

**Sivasankar, Mahalakshmi and Huber, Jessica E;** speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$133,260, "Physiological Effects of Hyperosmotic Vocal Fold Surface Fluid."

**Smith, Mjt;** graduate school administration, from National Science Foundation, \$23,917, "09/10 NSF Graduate Fellowship Program."

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

**Smith, Richard S;** food science, from Preferred Brands International, \$1,500, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Heartland Sweeteners, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Mrs. Fields Original Cookies, \$1,000, "Sensory Evaluation Research."

**Smith, Richard S;** food science, from Clabber Girl, \$1,000, "Sensory Evaluation Research."

**Son, Steven F;** mechanical engineering, from NextGen Aeronautics, Inc., \$18,000, "Mixing Nanofillers in Advanced High Energy Density Propellants."

**Stansbury, Betty M;** airport operations, from Indiana Department of Transportation, \$13,494, "Construct New 8 Unit T-Hanger Update Wildlife Study."

**Stauffer, Cynthia V;** biological sciences, from Purdue Research Foundation: XR Grant, \$16,750, "Interaction of the Oncogene Epha2 with the Human Cytoplasmic Protein Tyrosine Phosphatase (HCPTP)."

**Straw, Mark L;** animal sciences, from Agricultural Marketing Service, \$101,400, "Country of Origin Labeling (COOL) Retail Surveillance Activities."

**Subramaniam, Mangala;** sociology & anthropology, from Purdue University, \$12,956, "Veterinary Medicine as a Model for Womens Participation in Scientific Careers."

**Sullivan, John P;** aeronautics & astronautics, from the Boeing Company, \$50,000, "Product Lifecycle Management Center of Excellence (PLM)." (a Discovery Park award — Center for Advanced Manufacturing)

**Swihart, Robert K** and **Dalgleish, Harmony J**; forestry & natural resources, from Indiana Academy of Science, \$2,574, “Chestnut Reintroduction: the Role of Insect Seed Predators on Early Life Stage Demography.”

**Tao, Bernard Y**; agricultural & biological engineering, from Indiana Soybean Alliance, \$175,000, “2009 - 2010 Student Soybean Innovation Contest.”

**Tao, Bernard Y**; agricultural & biological engineering, from Indiana Corn Marketing Council, \$100,000, “2009 - 2010 Student Corn Innovation Contest.”

**Taylor, Kevin D**; Kokomo statewide technology, from Indiana Department of Workforce Development, \$61,068, “Project Lead the Way High School Certification.”

**Tharp, Susan J**; field extension educators, from Learning Network of Clinton County, \$13,365, “Clinton County Learning Network Language Coordinator and Coordinator Support.”

**Tharp, Susan J**; field extension educators, from Learning Network of Clinton County, \$20,625, “Clinton County Learning Network Language Coordinator Support.”

**Trice, Rodney W**; materials engineering, from Rolls-Royce, Inc., \$9,436, “Hot Corrosion of Airfoils 2009.”

**Vemulapalli, Ramesh** and **Hogenesch, Harm**; comparative pathobiology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$270,176, “Non-Replicative Vaccine for Human Brucellosis.”

**Venkatasubramanian, Venkat**; chemical engineering, from Idaho National Laboratory, \$200,000, “Systematic Framework for Vulnerability Assessment, and State Awareness for Resilient Networked Control Systems..” (a Discovery Park award — Discovery Park Administration)

**Vierling, Richard A**; agronomy, from Indiana Crop Improvement Association, \$1,000, “Multi Sponsored.”

**Vitek, Olga**; statistics, from Indiana University Purdue University at Indianapolis, \$10,000, “Statistical Analysis of Serum Proteomics Profiles for Subjects with Wilms Tumor.”

**Volenec, Jeffrey J**; agronomy, from International Plant Nutrition Institute, \$10,000, “Biofuel Research.”

**Volenec, Jeffrey J**; agronomy, from International Plant Nutrition Institute, \$20,000, “Global Maize.”

**Weaver, Connie M**; foods & nutrition, from Mead Johnson Nutritionals, \$6,000, “Corporate Affiliates Fund.”

**Weaver, Connie M**; foods & nutrition, from IU School of Medicine, \$28,004, “Indiana Clinical and Translational Science Institute.” (a Discovery Park award — Bindley Bioscience Center)

**Wei, Alexander**; chemistry, from Triton Systems, Inc., \$50,000, “SBIR: Field Sensor for Measuring TTHM Concentrations in Drinking Water.”

**Weil, Clifford F**; agronomy, from Dow Agrosciences, \$10,000, “PCR Analysis of Wheat Seed Samples for Specific Mutations.”

**Weiner, Andrew M**; electrical & computer engineering, from Discovery Semiconductors, \$23,333, “Ultra-Fast Photonics-Enabled RF Arbitrary Waveform Generation Utilizing Highly Linear, High-Power Photodiodes.”

**Weiss, William J** and **Olek, Jan**; civil engineering, from Compass Minerals, \$8,000, “Examining the Potential Pitfalls in Testing for Deicing Salt/Concrete Pavement Interactions.”

**Whitford, Fred**; botany & plant pathology, from Texas Vegetation Management Association, \$500, “Purdue Pesticide Programs.”

**Williams, Rod N**; forestry & natural resources, from Indiana Academy of Science, \$3,000, “Assessing the Effects of Eutrophication on Digenean Trematode Infection and Amphibian Malformations.”

**Wirth, Mary J**; chemistry, from National Science Foundation, \$262,038, “Single-Molecule Probing of Binding to Receptors.”

**Wise, Kiersten A**; botany & plant pathology, from E.I. DuPont de Nemours and Company, \$22,000, “Voluntary Support Account.”

**Wise, Kiersten A**; botany & plant pathology, from Monsanto Company, \$6,000, “Voluntary Support Account.”

**Wise, Kiersten A**; botany & plant pathology, from Agraquest, Inc., \$15,400, “Voluntary Support Account.”

**Wise, Kiersten A**; botany & plant pathology, from BASF Corporation, \$9,600, “Voluntary Support Account.”

**Wise, Kiersten A**; botany & plant pathology, from Bayer CropScience LP (Environmental Science), \$14,000, “Voluntary Support Account.”

**Wise, Kiersten A**; botany & plant pathology, from BASF Corporation, \$4,700, “Voluntary Support Account.”

**Wodicka, George R**; biomedical engineering, from National Science Foundation, \$40,500, “NSF-GRF.”

**Xin, Yan Ping** and **Si, Luo**; educational studies, computer science, from National Science Foundation, \$555,544, “R & D: Nurturing Multiplicative Reasoning in Students with Learning Disabilities in a Computerized Conceptual-Modeling – Amendment 1.”

**Xu, Xianfan**; mechanical engineering, from Research Triangle Institute, \$45,000, “Advanced Nanoscale Thin-Films and Nano-Bulk Thermoelectric Materials Towards 30% Conversion Efficiency Devices.” (a Discovery Park award — Birck Nanotechnology Center)

**Zhou, Chenn Q**; mechanical engineering — Calumet campus, from NiSource Corporate Services Company, \$10,000, “Optimization of Nisource Bailey Station Condenser Loop.”

**Zhou, Daoguo**; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$301,744, “Host Actin Cytoskeleton Rearrangements Induced by Salmonella.”

**Zwier, Timothy S**; chemistry, from National Aeronautics and Space Administration, \$160,000, “Laboratory Studies of Photochemical, Photoisomerization, and Discharge-Driven Pathways to Fused-Ring.” □

## Notice Regarding Sponsored Program Awards

The Sponsored Program Awards list is generated by Sponsored Program Administration. Questions concerning the information contained in the *Dimensions of Discovery* awards pages should be directed to Stephanie Willis at [swillis@purdue.edu](mailto:swillis@purdue.edu). ■