DIMENSIONS of DISCOVERY

Sponsored Program Awards

January 2010

Abbott, Angela R; College of Consumer & Family Sciences, from United Way-Greater Lafayette & Tippecanoe County Indiana Inc., \$1,500, "Poverty Simulation Voluntary Support."

Abramowitz, Harvey; Hamilton, Roy L and Pierson, Edward S; mechanical engineering — Calumet campus, Educational Opportunities Program — Calumet campus, electrical & computer engineering — Calumet campus, from National Science Foundation, \$575,000, "Science, Technology, Engineering and Math Scholarship Program."

Adams, Douglas E; mechanical engineering, from Sheet Dynamics, Ltd., \$25,000, "Automated, Rapid Non-Destructive Inspection (NDI) of Large Scale Composite Structures."

Adams, Douglas E; mechanical engineering, from AM General, \$598,295, "Demonstration of Advanced Suspensions for Health and Usage Monitoring and Load-Path Life-Extending Control in Military Tactical Wheeled Vehicles." (a Discovery Park award — Institute for Defense Initiatives)

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, \$50,000, "Danisco."

Akers, Douglas P; field extension educators, from Boone County Learning Network, \$244, "Boone County LN Coordinator."

Alam, Muhammad A; electrical & computer engineering, from Columbia University, \$148,214, "High Efficiency Nanosystems for Photovolitaics: Moving Beyond the Shockley-Queisser Limit."

Aldridge, Linda R; field extension educators, from Indiana Department of Workforce Development, \$2,500, "Huntington County 4-H Robotics 2010."

Alexander, Joshua M; speech, language & hearing sciences, from University of Wisconsin-Madison, \$234,464, "Contrast Enhancement to Improve Speech Recognition with Hearing Devices."

Allebach, Jan P; electrical & computer engineering, from Hewlett Packard, \$75,000, "Training-Based Halftoning Algorithms for Better Halftone Image Quality for the HP Digital Press—Phase 5."

Allen, Janet E; field extension educators, from Ivy Technology State College, \$18,720, "Coordination of Workforce and Economic Development Partnership with Ivy Technology 2010."

Anderson, Joseph M; agronomy, from Agricultural Research Service, \$529, "Acquisition of Goods and Services."

Anderson, William E; aeronautical & astronautical engineering, from University of Maryland, \$173,511, "Project Constellation Modification K."

Andrew-Richards, Jill M; field extension educators, from Ohio County Community Foundation, \$800, "Raised Bed Gardening."

Appenzeller, Joerg; electrical & computer engineering, from IBM, \$30,000, "IBM." (a Discovery Park award — Birck Nanotechnology Center)

Appenzeller, Joerg; electrical & computer engineering, from University of California-Los Angeles, \$125,000, "Functional Engineered Nano Architectonics." (a Discovery Park award — Birck Nanotechnology Center)

Banuelos, Rodrigo; mathematics, from Winifred B. Bilsland Endowment, \$9,468, "Lin,Kuei-Nuan."

Basaran, Osman A; chemical engineering, from U.S. Department of Energy, \$135,000, "Fundamentals of Electric Field Enhanced Multiphaseseparations and Analysis – Mod 16."

Basu, Prabir K; discovery park administration, from National Institute for Phrmctcl Technology & Education, \$301,625, "NIPTE Administrative Support." (a Discovery Park award — Discovery Park Administration)

Basu, Prabir K; discovery park administration, from National Institute for Pharmaceutical Technology & Education, \$51,909, "Study on the Development of Quality by Design (QbD) for Lyophilized Protein Parenteral Manufacturing Processes." (a Discovery Park award — Discovery Park Administration)

Bauman, Thomas T; botany & plant pathology, from Helena Chemical Company, \$1,800, "Weed Research."

Bayley, William G; chemistry, from West Central School Corp, \$300, "Instrumentation Van Project."

Beard, Jane A; field extension educators, from Daviess County, \$38,824, "2010 Daviess County Learning Center Coordinator Support."

Beckerman, Janna L; botany & plant pathology, from Midwest Regional Turf Foundation, \$100, "Indiana Arborists Association, Inc.."

Beyrouty, Craig A; agronomy, from PCS Administration (USA), Inc., \$20,000, "Potassium Management."

Bigelow, Cale A; agronomy, from Aquatrols Corporation of America, \$1,000, "Putting Greens Research."

Bock, Mary E; statistics, from Winifred B. Bilsland Endowment, \$7,890, "Fellowship."

Bolton, J S; mechanical engineering, from Intel Corporation, \$198,772, "Audio Distortion Compensation & Noise Reduction Methods."

Bordelon, Bruce P; horticulture & landscape architecture, from Cornell University, \$2,168, "Viticulture Consortium East — Coordinated Wine Grape Variety Evaluations in the Eastern U.S."



Boushey, Carol J; foods & nutrition, from University of Maryland, \$23,740, "Domoic Acid Neurotoxicity in Native Americans."

Bowen, Brenda B; earth & atmospheric sciences, from National Science Foundation, \$64,000, "Collaborative Research: the Evolution of Extremely Acid Lakes and Groundwaters in Western Australia – Amendment 2."

Bressan, Ray A; horticulture & landscape architecture, from King Abdullah University of Science and Technology, \$160,000, "KAUST Bench Fees."

Brouder, Sylvie M; Volenec, Jeffrey J; Gerber, Corey K; Gramig, Benjamin M; Prokopy, Linda S; Turco, Ronald F; Vyn, Tony J and Zhang, Hao; agronomy, agricultural economics, forestry & natural resources, statistics, from National Institute of Food & Agriculture, \$200,000, "Environmental and Productivity Benefits of Ecological Itensification of U.S., Maize-Based Cropping Systems."

Buczkowski, Grzegorz A; entomology, from Access Business Group Internation LLC, \$3,400, "Multi-sponsored."

Byrn, Stephen R and **Smith, Daniel T**; industrial & physical pharmacy, from AMIpurdue, \$240,000, "Drug Reformulation - Phase II."

Byrn, Stephen R; industrial & physical pharmacy, from National Institute for Phrmctcl Technology & Education, \$62,000, "In Vivo-In Vitro Correlation: Development of Dissolution Method Strategies with In Vivo-In Vitro Correlation for for Mulation of Poorly Soluble Counpounds."

Byrn, Stephen R; industrial & physical pharmacy, from Pfizer Inc., \$25,000, "Pfizer Gift."

Caffee, Marc W; physics, from Bureau of Reclamation, \$10,530, "Analyses for Green Mountain Dam."

Calais, Eric and Freed, Andrew M; earth & atmospheric sciences, from U.S. Geological Survey, \$82,396, "Intraplate Strain and Stress in the North American Plate Interior: Collaborative Research with Purdue University and University of Wisconsin."

Calais, Eric; **Flesch, Lucy M** and **Freed, Andrew M**; earth & atmospheric sciences, from National Science Foundation, \$114,769, "Kinematic Constraints on Mantle-Lithosphere Interactions in Eastern Africa – Amendment 5."

Calais, Eric and **Freed, Andrew M**; earth & atmospheric sciences, from National Science Foundation, \$133,804, "Geodetic and Geologic Field Response to the January 12, 2010, Mw 7.0 Haiti Earthquake."

Campbell, Wesley L; science bound, from PNC Foundation, \$5,000, "PNC Foundation Grant."

Chapple, Clint C; biochemistry, from Winifred B. Bilsland Endowment, \$8,851, "Fellowship."

Cheng, Gary J; industrial engineering, from Office of Naval Research, \$58,089, "Warm Laser Shock Peening: a New Technique for Stabilized Fatigue Life and Stress."

Cheng, Ji-Xin; chemistry, from Winifred B. Bilsland Endowment, \$12,623, "Fellowship."

Chmielewski, Jean A; College of Science – Administration, from National Science Foundation, \$142,000, "Controlling Microscale Collagen Peptide Assembly with Metal Triggers – Amendment 1."

Conger, Judith C; psychological sciences, from RHI Foundation, Inc., \$8,472, "Fellowship-Kimberly Cappa."

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

Cooper, James A; electrical & computer engineering, from II-VI Foundation, \$53,038, "II-VI Foundation Research Gift."

Crossley, William A and DeLaurentis, Daniel A; aeronautical & astronautical engineering, from Glenn Research Center, \$100,000, "System-of-Systems Approach for Assessing New Technologies in NGATS."

Davies, Patricia; mechanical engineering, from Federal Aviation Administration, \$45,000, "Project 25: Noise Exposure Response –Sleep Disturbance: Part B." (a Discovery Park award — Discovery Park Administration)

Davis, Jerry K; comparative pathobiology, from PHS-FDA Food and Drug Administration, \$73,000, "FDA Assignment-Intergovernmental Personnel Agreement."

Davisson, Vincent J; medicinal chemistry & molecular pharmacology, from Millipore, \$50,000, "Quantitative Direct Detection of Low Copy Number RNA/DNA Sequences by SERRS Technology." (a Discovery Park award — Bindley Bioscience Center)

Day, G. J; hospitality & tourism, from International Association of Conventions & Visitors Bureau Foundation, \$5,000, "DMAI Project."

DeLaurentis, Daniel A; aeronautical & astronautical engineering, from Naval Postgraduate School, \$120,000, "Acquisition Management for Systems-of-Systems: Risk Dynamics and Exploratory Model Experimentation."

DeWitt, William E; electrical & computer engineering technology, from Occupational Safety & Health Administration, \$3,783, "OSHA Training Institute."

Dyke, Shirley J; civil engineering, from National Science Foundation, \$1,040,154, "NEESR-SG: Performance-Based Design and Real-Time Large-Scale Testing to Enable Implementation of Advanced Damping System."

Eales, James S; agricultural economics, from Economic Research Service, \$300,000, "New Frontiers in Meat Demand Analysis."

Engel, Bernard A; agricultural & biological engineering, from Winifred B. Bilsland Endowment, \$6,312, "Fellowship."

Fentiman, Audeen W; College of Engineering Administration Engineering Experiment, from Rolls-Royce Corporation, \$18,107, "Proposal to Rolls-Royce in Support of Their Ph.D. Program."

Ferruzzi, Mario; food science, from Hershey Foods Corporation, \$8,000, "Hills Pet Nutrition, Inc.."

Fleet, James C; foods & nutrition, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$322,996, "Intestinal Calcium Absorption: Molecular Mechanism."

French, Richard M; mechanical engineering technology, from Butler County Community College, \$83,451, "Faculty Professional Development in Design, Construction, Assembly and Analysis of a Solid Body Electric Guitar."

Garimella, Suresh V; mechanical engineering, from Honeywell Inc., \$15,000, "2010 CTRC."

Garimella, Suresh V; mechanical engineering, from Denso Corporation, \$30,000, "2010 CTRC."

Garimella, Suresh V; mechanical engineering, from Toyota Motor Manufacturing, Inc., \$30,000, "2010 CTRC."

Geahlen, Robert L and **Harrison, Marietta L**; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$218,537, "Tyrosine Protein Kinases and Lymphocyte Activation."

Geahlen, Robert L; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$25,197, "Syk and Associated Proteins in Breast Cancer."

Gelvin, Stanton B; biological sciences, from Consortium Plant Biotechnology Research Inc., \$120,000, "Peptide Apramers to Determine Protein Function in Plants."

Gelvin, Stanton B; biological sciences, from Consortium Plant Biotechnology Research Inc., \$120,000, "Plant Global Regulator of Agrobaterium Transformation."

Ghiselli, Richard F; hospitality & tourism, from Banfi Vinters Foundation, \$11,000, "Banfi Vintners Foundation."

Ghosh, Arun K; chemistry, from Japan Science Foundation, \$12,919, "Development of New-Generation CCR5 Inhibitors as Therapeutics of HIV-Infection."

Ghosh, Arun K; chemistry, from Ross Graduate Fellowship/Assistantship, \$16,685, "Fellowship."

Gilbert, Hersh J; earth & atmospheric sciences, from National Science Foundation, \$19,530, "Supplement:Collaborative Research: Structure of the Nazca Slab and Sierras Pampeanas."

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

Golub, Alla A and Hertel, Thomas W; agricultural economics, from Food & Agriculture Organization of the United Nations, \$57,500, "Letter of Agreement (Technical Assistance Agreement) with FAO."

Goodwin, Stephen B; botany & plant pathology, from Agricultural Research Service, \$13,540, "Acquisition of Goods and Services."

Gore, Jay P; mechanical engineering, from Innovative Scientific Solutions, Inc., \$23,162, "Studies of the Temperature and Delivered Energy of a Plasma Jet Igniter, Turbulent Radiation Statistics in Bluff-Body Stabilized Flames, and Estimated Scalar Values in Soot Producing Centerbody Stabil." (a Discovery Park award — Energy Center)

Govindaraju, Rao S; civil engineering, from LASPAU, \$3,867, "LASPAU Fulbright Fellowship 10/11."

Govindaraju, Rao S; civil engineering, from Pegasus Technical Services Inc., \$69,119, "Optimization for Watershed Management."

Gray, Jeffery L; electrical & computer engineering, from DuPont Central Research & Development, \$25,000, "Determination of Optimal Materials and Band Gaps for a Concentrator Photovoltaic System."

Groll, Eckhard A; mechanical engineering, from EcoThermics Corporation, \$3,000, "CO2 Compressor Research."

Haase, Jennifer S and Garrison, James L; earth & atmospheric sciences, aeronautical & astronautical engineering, from ITT Space Systems Division, \$19,825, "Support for CLARREO Radio Occultation (RO)."

Handwerker, Carol A; Blendell, John E and Subbarayan-Shastri, Ganesh; materials engineering, mechanical engineering, from Science Applications International Corp., \$29,686, "Logistics Impact of Lead-Free Components on Legacy Electronic Repair."

Handwerker, Carol A; materials engineering, from ECI Technology Inc., \$27,999, "Development and Validation of Tin-Whisker Growth Model and Accelerated Testing."

Harbor, Jonathan M; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, , \$9,240, "Fellowship."

Harilal, Sivanandan and Hassanein, Ahmed; nuclear engineering, from PHS-NIH National Center for Research Resource, \$186,835, "Development of Efficient Table-Top Laser-Produced Plasma Sources for Water-Window Microscopy." (a Discovery Park award — Energy Center)

Haynes-Bordas, Rebecca and **Bechtold, Naomi S**; field extension educators, from Hoover Family Foundation, \$7,500, "Reading Makes Cents."

Heathman, Gary C; agronomy, from Agricultural Research Service, \$6,541, "Aquisition of Goods and Services."

Heckaman, Kelly L; field extension educators, from University of Nebraska-Lincoln, \$23,295, "Managers Academy: Target 2015."

Heinz, Michael G and Fekete, Donna M; biomedical engineering, biological sciences, from National Institutes of Health, \$41,176, "NIH - Ruth Kirschstein Fellowship."

Heinz, Michael G; speech, language & hearing sciences, from National Institutes of Health, \$204, "NIH - Ruth Kirschstein Fellowship."

Heister, Stephen D; Anderson, William E; Sojka, Paul E; Campanella, Osvaldo H; Corvalan, Carlos M; Lucht, Robert P; Merkle, Charles L and Son, Steven F; aeronautics and astronautics, mechanical engineering, agricultural and biological engineering, food science, from Army Research Office, \$1,250,000, "Spray & Combustion of Gelled Hypergolic Propellants." (a Discovery Park award — Energy Center)

Hertel, Thomas W; agricultural economics, from Robert A Nathan Associates, Inc., \$19,650, "GTAP Membership."

Hertel, Thomas W; agricultural economics, from Economic Research Service, \$19,650, "GTAP Membership."

Hirleman, E D; Groll, Eckhard A and **Jesiek, Brent K**; mechanical engineering, engineering education, from National Science Foundation, \$878,736, "IREE: Developing Globally Competent Engineering Researchers."

Hogenesch, Harm; School of Veterinary Medicine – Administration, from Abbott Laboratories, \$10,000, "Abbott Fellowships for Summer Research Program for Veterinary Students."

Howe, Katherine M; botany & plant pathology, from Michael Mountford, \$20, "Gift Fund."

Howe, Katherine M; botany & plant pathology, from Other, \$40, "Gift Fund."

Howe, Katherine M; botany & plant pathology, from Melville H. Kennedy, \$20, "Gift Fund."

Hubbard, Bryan J; building construction & management technology, from University of Cincinnati – Education and Research Center, \$6,535, "Exposure Assessment and Real-Time Evaluation of Surface Planer Dust Control Technology for Highway Construction Application."

Hutcheson, John S; College of Agriculture – Administration, from Northspan Group Inc., \$5,000, "Northspan Group, Inc."

Hutcheson, John S; College of Agriculture – Administration, from Muhlenberg Economic Enterprises, \$7,500, "Muhlenberg Economic Enterprises."

Hutcheson, John S; College of Agriculture – Administration, from Fl Chamber Foundation, \$2,500, "Florida Chamber Foundation (Multisponsored Account 203781)."

Hutcheson, John S; College of Agriculture – Administration, from Northspan Group Inc, \$500, "Multi-Sponsored Account."

Hutcheson, John S; College of Agriculture – Administration, from Workforce Development Inc, \$2,000, "Workforce Development, Inc."

Hutcheson, John S; Office of Engagement, from Northspan Group Inc., \$7,500, "Multi-Sponsored Account."

Ileleji, Klein; agricultural & biological engineering, from Foreign Agricultural Service, \$6,837, "Nigeria Commodity Storage and Handling."

Irfanoglu, Ayhan; civil engineering, from Wiss, Janney, Elstner Associates, Inc., \$6,000, "A Study on the Seismic Risk of Four Buildings in Istanbul, Turkey-U.S. Department of State/Wiss Janney Elstner Association, Inc."

Irfanoglu, Ayhan; civil engineering, from Lynn Interdisciplinary Graduate Fellowship, \$16,685, "Fellowship."

Ivantysynova, Monika; agricultural & biological engineering, from Doosan Infracore Co Ltd, \$82,128, "Performace Prediction and System Control through Coupled Multi-Domain Models – a Comparison Study."

Ivantysynova, Monika; Lumkes, John H and Martini, Ashlie M; agricultural & biological engineering, mechanical engineering, from University of Minnesota, \$210,820, "Engineering Research Center (ERC) for Compact and Efficient Fluid Power -Industrial Funds Year 4." (a Discovery Park award — Energy Center)

Jiang, Yiwei; agronomy, from United States Golf Association, \$2,500, "Turf Physiology."

Johnson, William G; botany & plant pathology, from CFR Chemicals, \$7,200, "Weed Research."

Johnston, Cliff T; agronomy, from Clay Minerals Society, \$23,792, "MOU-Purdue University and Clay Minerals Society."

Julien, Isidore A; Gedney, Clark D and Pratt, David M; biological sciences, education – North Central Campus, from Indiana Commission for Higher Education, \$108,822, "Greening the Science Curriculum."

Keenan, Douglas L; field extension educators, from Drug-Free Noble County, \$1,500, "Legal Education to Arrest Delinquency (LEAD)."

Klimeck, Gerhard; electrical & computer engineering, from University of Wisconsin-Madison, \$5,000, "Solid State Quantum Computing Using Spin Qubits in Silicon Quantum Dots – Amendment 2."

Knapp, Deborah W; veterinary clinical science, from Novartis Animal Health US, Inc., \$20,397, "Analysis and Publication of Results of Deracoxib (Deramaxx, Novartis) Treatment in Dogs with Naturally-Occuring Urinary Bladder Cancer."

Knapp, Deborah W; veterinary clinical science, from Richard & Martha Godinez, \$500, "Cancer Treatment Program."

Krupke, Christian H; entomology, from AM-VAC Chemical Corporation, \$4,000, "Krupke Entomology – Research."

Krutz, Gary W; agricultural & biological engineering, from Parker Hannifin Foundation, \$76,839, "S4-Phase II."

Latin, Richard X; botany & plant pathology, from BASF Corporation, \$8,800, "Turfgrass Disease Research."

Leary, James F; basic medical sciences, from PHS-NIH National Center for Research Resource, \$495,000, "LEAP Image Scanning Cytometer/Sorter/Optoinjection Shared Instrument." (a Discovery Park award — Bindley Bioscience Center)

Lee, Linda S; Brouder, Sylvie M; Volenec, Jeffrey J; Gibson, Kevin D and Prokopy, Linda S; agronomy, botany & plant pathology, forestry & natural resources, from National Institute of Food & Agriculture, \$236,000, "Graduate Education to Meet the Agro-Ecosystem Services (AES) Challenge."

Lee, Linda S and Jafvert, Chad T; agronomy, civil engineering, from Environmental Protection Agency, \$5,000, "Fate and Transportation of Pathogenic Microorganisms Originating from Livestock Animal Manures Applied to Agricultural Lands."

Lester, Terri L and **Cordes, Samuel M**; office of engagement, from University of Michigan, \$63,743, "Community Economic Adjustment Program (CEAP)."

Linton, Richard H; food science, from BASF Corporation, \$100,000, "Multi-sponsored/ Research."

Low, Philip S; chemistry, from Endocyte, Inc., \$461,645, "Folate Chemo: Novel, Non-Toxic, Delivery of Hemotherapeutics."

Lucht, Robert P; mechanical engineering, from U.S. Department of Energy, \$120,000, "Polarization Spectroscopy and Electronic-Resonance-Enhanced Coherent Anti-Stokes Raman Scattering – Mod 6."

Lundstrom, Mark S; Alam, Muhammad A; Datta, Supriyo; Klimeck, Gerhard; Strachan, Alejandro H and Ye, Peide; electrical & computer engineering, from Massachusetts Institute of Technology, \$693,488, "Theory, Modeling, and Simulation of Nanotransistors."

Luo, Zhao-Qing; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$262,171, "Modulation of Host Apoptotic Pathways by Legionella Pneumophila."

Maylath, Nancy S; student health center, from Indiana State Department of Health, \$113,500, "Indiana Campus Sexual Assault Prevention Project."

McCann, Maureen C and Handa, Avtar K; biological sciences, horticulture & landscape architecture, from National Institute of Food & Agriculture, \$350,000, "Function of Rhamnogalacturonan-I in Tomato Cell Walls."

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

McKinley, Steven K; youth development & agricultural education, from National 4-H Council, \$2,000, "2010 4-H Volunteer Congress."

McKinley, Steven K; youth development & agricultural education, from Kansas State University, \$18,911, "Indiana Military 4-H Club Grant."

McKinnis, David R; Technology Assistance Program, from Growth Alliance for Greater Evansville, \$35,000, "Purdue TAP SW Indiana WIRED Growth Project."

McLennan, Michael J; Rosen Center for Advanced Computing, from Rice University, \$58,232, "Cyberinfrastructure to Support the Center for Biological and Environmental Nanotechnolgy."

McLennan, Michael J; Rosen Center for Advanced Computing, from Environmental Protection Agency, \$78,498, "Integrated Environmental Modeling Hub: an Online Community of Practice for Integrated Environmental Modeling Communities."

McNamara, Kevin T; agricultural economics, from Agency for International Development, \$1,005,369, "Advancing Afghan Agriculture Alliance."

Mohammadi, Saeed and Fisher, Timothy; electrical & computer engineering, mechanical engineering, from Innosys Inc., \$40,000, "An Integrated Klystron Cavity for Mm-Wave Power Amplifier Modules." (a Discovery Park award — Birck Nanotechnology Center)

Murthy, Jayathi Y; mechanical engineering, from U.S. Department of Energy, \$3,300,000, "PRISM: Center for Prediction of Reliability, Integrity, and Survivability of Microsystems – Amendment 4."

Mustafa, Ahmed; biology – Fort Wayne campus, from Novus International Inc., \$8,500, "Effects of Dietary Copper and Zinc on the Stress and Immune Response in Pacific White Shrimp, Litopanenaeus Vannamei, Culture in Recirculating System."

Nichols, Krista M; forestry & natural resources, from Great Lakes Fishery Commission, \$90,000, "Genetic Analysis of Dispersal Behavior in Brook Trout."

Nicoletti, Kimber J; youth development & agricultural education, from Indiana State Department of Health, \$93,493, "MESA: Multicultural Efforts to End Sexual Assault Grant Proposal."

Oakes, William C; engineering education, from National Instruments Foudnation, \$33,572, "National Instruments."

Oconnell, Kathleen L; health & human services – Fort Wayne campus, from Affilated Service Providers of Indiana, Inc., \$500, "Disaster Behavioral Health District 3."

Overholser, Brian R; pharmacy practice, from PHS-NIH National Heart, Lung and Blood Institute, \$138,215, "Probing the Atrial Arrhythmogenic Substrate with Sustained Adrenergic Stimulation."

Park, Kihong; computer science, from Korea Institute of Information Security and Cryptology, \$16,000, "A Study for a Curriculum of Department of Information Security at Universities in Korea."

Peroulis, Dimitrios; electrical & computer engineering, from Micromachining Services Inc., \$40,000, "Micromachining Services, Inc.." (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Microassembly Technologies Inc, \$20,000, "Microassembly Technologies, Inc.." (a Discovery Park award — Birck Nanotechnology Center)

Peroulis, Dimitrios; electrical & computer engineering, from Microassembly Technologies Inc, \$10,000, "Microassembly Technologies, Inc.." (a Discovery Park award — Birck Nanotechnology Center)

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

Peroulis, Dimitrios; electrical & computer engineering, from Laserlith Corp, \$20,000, "Laserlith." (a Discovery Park award — Birck Nanotechnology Center)

Pinal, Rodolfo; industrial & physical pharmacy, from Abbott Laboratories, \$35,000, "CPPR Membership 1/1/10-12/31/10."

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

Porterfield, D. M and **Fisher, Timothy**; agricultural & biological engineering, mechanical engineering, from Trask Trust Fund, \$83,165, "Nano-Assembled Glucose Biosensor Technology to Enable Non-Invasive Blood Glucose Measurement."

Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$222,160, "Protein Stability and Antiviral Activity in Human Rhinovirus."

Powley, Terry L; psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$39,960, "Autonomic Control of Body Weight and Feeding."

Powley, Terry L and **Phillips, Robert J**; psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$98,899, "Gastrointestinal Tract Innervation: Patterns of Aging."

Prezzi, Monica and Salgado, Rodrigo; civil engineering, from Indiana Department of Transportation, \$240,000, "Development of Site Investigation Technologies and Methods for Enhanced Quality Control and Cost-Effective Design, SPR-3408."

Ramani, Karthik; mechanical engineering, from General Electric Corporate Research & Development, \$80,000, "Shape Understanding: from Point-Clouds to Parametric Models."

Rao, Sanjay G; electrical & computer engineering, from National Science Foundation, \$80,000, "CAREER: Towards Automated and Assurable Enterprise Network Migration."

Raskin, Rose E; comparative pathobiology, from Antech Diagnostics, \$2,980, "Immunocytochemistry Research."

Reicher, Zachary J; agronomy, from Midwest Regional Turf Foundation, \$8,750, "Turfgrass Research."

Reicher, Zachary J; agronomy, from Midwest Regional Turf Foundation, \$300, "Turfgrass Research."

Robinson, Joseph P and Rajwa, Bartlomiej P; basic medical sciences, Bindley Bioscience Center, from Advanced Bioimaging, \$100,000, "Commercialization: 2nd Generation Software Platform." (a Discovery Park award — Bindley Bioscience Center)

Rocheford, Torbert R; agronomy, from Internation Maize & Wheat Improvement Center, \$10,000, "Travel Cooperation with CIMMYT on Carotenoids."

Rogers, Marcus K; computer & information technology, from City of Burlington, \$6,000, "Cyber Forensics Training-City of Burlington, VT."

Rogers, Marcus K; computer & information technology, from Champlain College, \$6,000, "Cyber Forensics Training- Champlain College, VT."

Roy, Kaushik; electrical & computer engineering, from Intel Corporation, \$35,201, "III-V FET Technology Evaluation for High Performance Low Power Logic and Memory Circuits."

Sadeghi, Farshid; mechanical engineering, from Siemens Energy & Automation Inc., \$254,871, "Analytical and Experimental Investigation of Fretting Wear."

Sadof, Clifford S; entomology, from Valent Biosciences Corporation, \$3,000, "Ornamental Insect Research."

Salgado, Rodrigo and **Prezzi, Monica**; civil engineering, from Indiana Department of Transportation, \$240,000, "Piling Driving Analysis for Pile Design and Quality Assurance, SPR-3407."

Salt, David E; horticulture and landscape architecture, from PHS-NIH National Institute of General Medical Science, \$135,175, "The Genetics Basis of Natural Ionomic Variation." (a Discovery Park award — Bindley Bioscience Center)

San Martin-Gonzalez, Maria F; food science, from CONACYT, \$18,900, "CONACYT-Mexico Fellowship."

Sanders, John H; agricultural economics, from University of Nebraska, \$89,102, "Development of Imput and Product Markets in West Africa for Sorghum and Millet. PRF 103."

Schemerhorn, Brandon J; entomology, from Agricultural Research Service, \$4,444, "Acquitition of Goods and Services."

Schendel, Dan E; management, from Strategic Management Society, \$2,174, "Strategic Management Society."

Schoenlein, William E and Van Alstine, William G; biomedical engineering, comparative pathobiology, from Medicine Institute, Inc., \$40,217, "Vena Cava Filter Implant Testing CI-VCFC and CI-VCNF Grant 202922 (Amendment 4)."

Schoonmaker, Jon; animal sciences, from DSM Nutritional Products, Inc., \$15,000, "DSM Nutritional Products, Inc."

Scott-Moncrieff, Joanna C; veterinary clinical science, from University of Guelph, \$38,610, "Comparison of Thromboprophylactic Therapies on Outcome and Hemodynamics in Canine Immune-Mediated Hemolytic Anemia: a Randomized Prospective Clinical Trial."

Shah, Kavita; chemistry, from Indiana University, \$32,000, "Exploring Neurodegenerative Pathways in AD Caused by Deregulated Cdk5 Kinase."

Sharma, Maneesh K; accounting & finance – Fort Wayne campus, from America Society of Pension Actuaries, \$30,000, "American Society of Pension Professionals Development Training Courses."

Shaver, Gregory M; mechanical engineering, from Office of Naval Research, \$60,000, "Physics-Based Modeling of Alternative Fuels Combustion in Diesel Engines."

Shaver, Gregory M; mechanical engineering, from Office of Naval Research, \$30,000, "Physics-Based Modeling of Alternative Fuels Combustion in Diesel Engines."

Shepson, Paul B and Gurney, Kevin R; chemistry, earth and atmospheric sciences, from National Institute of Standards & Technology, \$624,600, "Development, Improvement & Assessment of the Accuracy of Aircraft-Based Mass Balance Measurements of Integrated Urban Emission Fluxes of Greenhouse Gas." (a Discovery Park award — Purdue Climate Change Research Center)

Sivasankar, Mahalakshmi; speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$13,325, "Physiological Effects of Hyperosmotic Vocal Fold Surface Fluid.."

Slipchenko, Lyudmila V; chemistry, from National Science Foundation, \$226,573, "Novel QM/MM Algorithms for Understanding Efficient Energy Harvesting in Photosynthesis."

Smith, Daniel T; industrial & physical pharmacy, from Clinton Foundation HIV/AIDS Initiative, \$55,000, "Bioavailability of Protease Inhibitors in Rats."

Smith, Richard S; food science, from Maplehurst Bakeries Inc., \$3,000, "Sensory Evaluation Research."

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

Smith, Richard S; food science, from Industrial Microwave Systems LLC, \$7,500, "Food Science Research."

Snyder, Paul W and **Fleet, James C**; comparative pathobiology, foods & nutrition, from Abbott Laboratories, \$78,674, "Pathology Fellowship."

Son, Steven F; mechanical engineering, from Defense Threat Reduction Agency, \$8,000, "Energetic Materials 2010 Gordon Research Conference."

Son, Steven F; mechanical engineering, from Defense Threat Reduction Agency, \$240,000, "Silicon-Based Nanoscale Composite Energetic Materials."

Song, Xiaohui C; Rosen Center for Advanced Computing, from University of Chicago, \$1,329,806, "Teragrid Extension: Bridging to XD."

Stauffacher, Cynthia V; biological sciences, from Winifred B. Bilsland Endowment, , \$9,468, "Fellowship."

Stefancik, Jennifer L; field extension educators, from Old National Bank Foundation, \$5,000, "Daviess County Latino Learning Center Support."

Straw, Mark L; animal sciences, from Agricultural Marketing Service, \$19,444, "State Surveillance."

Subbarayan-Shastri, Ganesh; mechanical engineering, from Intel Corporation, \$98,975, "Amendment No. 1 to Grant 203571."

Sullivan, John P; aeronautical & astronautical engineering, from Honda, \$50,000, "Product Lifecycle Management Center of Excellence (PLM)."

Sun, Chin-Teh; aeronautical & astronautical engineering, from Office of Naval Research, \$90,000, "Development of Toughened and Multifunctional Nanocomposites for Ship Structures."

Sun, Chin-Teh; aeronautical & astronautical engineering, from Air Force Office of Scientific Research, \$34,890, "Development of Meta-Composite Materials with Negative Effective Mass Denisty – Mod 1."

Swaminathan, Vishwanathan; statistics, from Google, Inc., \$40,000, "Google, Inc."

Swihart, Robert K; forestry & natural resources, from E.I. DuPont DeNemours and Company, \$13,500, "Habitat Restoration-Voluntary Support."

Topp, Elizabeth M; industrial & physical pharmacy, from PhRMA Foundation, \$80,000, "Post Doc-PhRMA Foundation Grant."

Tuinstra, Mitchell R; agronomy, from University of Nebraska, \$82,000, "Developing Sorghum with Improved Grain Quality, Agronomic Performance, and Resistance to Biotic and Abiotic."

Tuinstra, Mitchell R; agronomy, from Jerry M and Jo M Arnold, \$200, "Corn Research."

Ukkusuri, Satish V; civil engineering, from Vietnam Education Foundation, \$13,500, "VEF Fellowship 10/."

Ukkusuri, Satish V; civil engineering, from Vietnam Internation Education Development, \$27,000, "Fellowship for Vietnam International Education."

Ukkusuri, Satish V; civil engineering, from National Science Foundation, \$247,997, "NetSE: Small: Collaborative Research: Integrating Real Time Traffic Signal Control with Networking Control Strategies to Optimize Urban Traffic Networks."

Ukkusuri, Satish V; civil engineering, from New York University, \$79,301, "Pedestrian Fatalities in New York City."

Vyn, Tony J; agronomy, from Valent Biosciences Corporation, \$8,000, "Agricultural Cropping Systems."

Wang, Nien-Hwa L; chemical engineering, from Argonne National Laboratory, \$91,700, "Development of Simulated Moving Bed Chromatography for the Separation of Rare-Earth Elements from Americium from Curium Supplemental Agreement M0002."

Watson, William R; curriculum & instruction, from Entertainment Software Association Foundation, \$50,000, "National Pastime: an Educational Video Game for Teaching About the Internment of Japanese-Americans in World War II."

Weaver, Connie M and Vitek, Olga; foods & nutrition, statistics, from IU School of Medicine, \$53,036, "Additional Indiana CTSI Support." (a Discovery Park award — Bindley Bioscience Center)

Weaver, Connie M and McCabe, George P; foods & nutrition, College of Science – Administration, from Genzyme Corporation, \$175,632, "Measure Calcium Kinetics in Patients with Stage 3/4 Chronic Kidney Disease (CKD)."

Weaver, Connie M; foods & nutrition, from Sensient Technologies Corporation, \$6,000, "Corporate Affiliates Fund."

Weil, Clifford F; agronomy, from Jerry M and Jo M Arnold, \$200, "Tilling."

Weil, Clifford F and Yao, Yuan; agronomy, food science, from Consortium Plant Biotechnology Research, Inc., \$100,000, "Genetic Control of Starch Digestion: Better Food & Fuel."

Weiss, William J; civil engineering, from Icestone LLC, \$3,935, "Shrinkage Cracking Resistance Testing of Concrete Countertop Mixtures."

Wereley, Steven T; mechanical engineering, from Life Technologies, \$25,000, "Optoelectrowetting Research." (a Discovery Park award — Birck Nanotechnology Center)

Wereley, Steven T; mechanical engineering, from Hummingbird Precision Machine, \$112,500, "Design and Fabrication of Microfluidic Chips for IN-Situ (Scanning) Transmission Electron Microscopy (S)TEM Observations in Liquids." (a Discovery Park award — Birck Nanotechnology Center)

Whitford, Fred; botany & plant pathology, from Kentucky Pest Control Educational Fund, \$249, "Purdue Pesticide Programs."

Whitford, Fred; botany & plant pathology, from Midwest Regional Turf Foundation, \$200, "Purdue Pesticide Programs."

Whittinghill, David M; computer graphics technology, from The National Gem Consortium, \$4,167, "GEM Masters Fellowship."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$75,000, "Mechanism-Based Antifouling: Characterizing Bioadhesives and Inhibiting Adhesion."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$75,000, "Mechanism-Based Antifouling: Characterizing Bioadhesives and Inhibiting Adhesion."

Williams, Ralph E; entomology, from Fair Oaks Dairy Farm, LLC, \$3,000, "Entomology Research."

Won, You-Yeon; chemical engineering, from Amore Pacific Support, \$30,000, "Peptide Block Copolymers with Ph-Tunable Amphiphilicity for Cosmetic Applications.."

Wu, Steven Y; agricultural economics, from National Institute of Food & Agriculture, \$291,332, "Agricultural Market Structure and Conduct, and Robust Market and Contract Design."

Yeo, Yoon; industrial & physical pharmacy, from America Association of Pharmaceutical Scientists, \$25,000, "AAPS New Investigator Grant."

Youngblood, Jeffrey P; materials engineering, from DuBois Chemicals, Inc., \$10,000, "Investigation of Stimuli-Responsive Amphiphilic Polymers for Self-Clean/Easy-Rinse Coatings and Cleaner Additives."

Zhang, Xiangyu; computer science, from National Science Foundation, \$85,000, "CA-REER: Scalable Dynamic Program Reasoning – Amendment 1."

Zhou, Chenn Q; mechanical engineering — Calumet campus, from American Iron & Steel Institute, \$145,112, "Minimization of Blast Furnace Fuel Rate by Optimizing Burden and Gas Distributions."

Zotz, Karen L; **Hibberd, Charles A** and **Abbott, Angela R**; College of Consumer & Family Sciences, College of Agriculture − Administration, from Lumina Foundation, \$750,000, "Indiana Benefit Bank." □

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