

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

August 2009

Abel, Steven R; pharmacy practice, from Health & Hospital Corp of Marion County, \$46,545, "Health and Hospital Corp of Marion County."

Abel, Steven R; pharmacy practice, from R.L. Roudebush VA Medical Center, \$59,870, "R.L. Roudebush VA Medical Center."

Adams, Douglas E; mechanical engineering, from Army Research Office, \$80,000, "Add-on: Investigation of Offline/Online Sensing & Data Analysis Strategies for Characterizing Helmet-Head Performance."

Agee, Ernest M; earth & atmospheric sciences, from Purdue Doctoral Program, \$16,685, "Fellowship."

Agee, Ernest M; earth & atmospheric sciences, from Winifred B. Bilsland Endowment, \$7,890, "Fellowship."

Agee, Ernest M; earth & atmospheric sciences, from Ross Graduate Fellowship/Assistantship, \$16,685, "Fellowship."

Agee, Ernest M; earth & atmospheric sciences, from Ross Graduate Fellowship/Assistantship, \$16,685, "Fellowship."

Agee, Ernest M; earth & atmospheric sciences, from Ross Graduate Fellowship/Assistantship, \$16,685, "Fellowship."

Agrawal, Rakesh; Carpita, Nicholas C; McCann, Maureen C; Abu-Omar, Mahdi M; Delgass, W N and Ribeiro, Fabio H; biological sciences, botany & plant pathology, chemical engineering, chemistry, from National Science Foundation, \$2,000,000, "EFRI-HYBI: Maximizing Conversion of Biomass Carbon to Liquid Fuel." (a Discovery Park award — Energy Center)

Akkus, Ozan; Panitch, Alyssa and Hillhouse, Hugh W; biomedical engineering, chemical engineering, from PHS-NIH National Institute of Mental Health, \$146,627, "Electrochemically Driven Collagen Fibrillogenesis for Tissue Engineering."

Allebach, Jan P; electrical & computer engineering, from International Society for Technology in Education, \$15,000, "HP Innovations in Education."

Allebach, Jan P and Bouman, Charles A; electrical & computer engineering, from Xerox Corp, \$100,000, "Text-Based Personalization of Images-Phase 2."

Amberg, Jon J; forestry & natural resources, from Agricultural Research Service, \$11,707, "Improved Dietary Formulation for Yellow Perch Production."

Anderson, Joseph M; agronomy, from Agricultural Research Service, \$59,400, "Acquisition of Goods and Services."

Appenzeller, Joerg; electrical and computer engineering/Birck Nanotechnology Center, from Semiconductor Research Corporation, \$40,000, "Semiconductor Research Corp." (a Discovery Park award — Birck Nanotechnology Center)

Applegate, Todd J; animal sciences, from Aviagen Inc., \$4,500, "Pyhtase in Poultry."

Atallah, Mikhail J; computer science/CE-RIAS, from National Science Foundation, \$89,312, "TC:Small: Collaborative Research Privacy-Constrained Searching."

Bagchi, Saurabh; electrical & computer engineering, from National Science Foundation, \$259,000, "CSR: Small: Monitoring for Error Detection in Today's High Throughput Applications."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National Gem Consortium, \$8,333, "09/10 Fellowships Gem Engineering."

Balakrishnan, Venkataramanan; electrical & computer engineering, from American Society for Engineering Education, \$32,023, "ASEE SMART Fellowship."

Balakrishnan, Venkataramanan; electrical & computer engineering, from IBM, \$443,647, "09/10 IBM Fellowship."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Vietnam International Education Development, \$27,000, "VIED Fellowship."

Balakrishnan, Venkataramanan; electrical & computer engineering, from IBM, \$45,048, "09/10 IBM Fellowship."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National Gem Consortium, \$8,333, "09/10 Fellowships Gem Engineering."

Balakrishnan, Venkataramanan; electrical & computer engineering, from The National Gem Consortium, \$8,333, "09/10 Fellowships Gem Engineering."

Balakrishnan, Venkataramanan; electrical & computer engineering, from American Society for Engineering Education, \$32,023, "ASEE SMART Fellowship."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Chiang Chen Industrial Charity Foundation, \$100,000, "Fellows for the 09/10 Chiang Chen Industrial Charity Foundation."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Vietnam Education Foundation, \$27,000, "Fellowship."

Basu, Saugata; mathematics, from National Science Foundation, \$300,000, "AF: Small: Algorithmic and Quantitative Problems in Semi-Algebraic and O-Minimal Geometry."

Bauman, Thomas T; botany & plant pathology, from Dow Agrosciences, \$3,850, "Weed Research."

Bauman, Thomas T; botany & plant pathology, from Gowan Company, \$4,500, "Weed Research."

Bayley, William G; chemistry, from Fishers High School, \$1,000, "Instrumentation Van Project."

Bayley, William G; chemistry, from Delphi Community School Corporation, \$550, “Instrumentation Van Project.”

Bayley, William G; chemistry, from Ivy Technology State College, \$200, “Instrumentation Van Project.”

Beard, Jane A; Cooperative Extension Service, from LEAP of Noble County, \$5,000, “Davies County Latino Learning Center Compensation Support.”

Beckerman, Janna L; botany & plant pathology, from Indiana Arborists Association, Inc., \$250, “Indiana Arborists Association, Inc.”

Ben-Amotz, Dor; chemistry, from National Science Foundation, \$439,344, “Water-Reorganization Around Non-Polar, Polar and Ionic Solutes. Multivariate Spectroscopy, Simulation and Theory.”

Bertino, Elisa; Bingham, Clifton W; Li, Ninghui and Spafford, Eugene H; computer science, from University of Maryland Baltimore County, \$300,000, “A Framework for Managing the Assured Information Sharing Lifecycle.”

Bertoline, Gary R; Dyrenfurth, Michael J; Herrick, Robert J and Newton, Kathryn A; College of Technology – administration, industrial technology, electrical & computer engineering technology, from U.S. Department of Education, \$107,937, “Dual MS Degrees Focused on Technology, Innovation & Sustainability.”

Bertoline, Gary R; computer graphics technology, from National Science Foundation, \$20,000, “Supplement: NUE: Enhanced Undergraduate Nanotechnology Education with Haptic and Visualization Tools.”

Bickham, John W; forestry & natural resources, from North Slope Borough, \$75,000, “Development of Sex-Chromosome Specific Markers for Population Genetic and Phylogeographic Studies in Marine Mammals.” (a Discovery Park award - Center for the Environment.)

Bigelow, Cale A; agronomy, from Farmsaver, \$5,000, “Putting Greens Research.”

Bigelow, Cale A; agronomy, from Unison Labs LLC, \$2,500, “Putting Greens Research.”

Blaisdell, Gregory A; Li, Zhiyuan and Lyrantzis, Anastasios S; aeronautical & astronautical engineering, computer science, from National Science Foundation, \$1,291,668, “Realistic Simulation of Jet Engine Noise Using Petaflop Computing.”

Boerste, Catherine L; field extension educators/Cooperative Extension Services, from Toyota Motor Manufacturing Inc., \$2,400, “7th Grade Science Sensation in Gibson County.”

Bordelon, Bruce P; horticulture & landscape architecture, from Missouri Grape Growers Association, \$522, “Multi - Sponsored Gift Account.”

Bouman, Charles A; electrical & computer engineering, from Xerox Corp, \$20,000, “Context Dependent Image and Document Processing.”

Boushey, Carol J; Delp, Edward J; Ebert, David S and Okos, Martin R; foods & nutrition, electrical & computer engineering, agricultural & biological engineering, from PHS-NIH National Cancer Institute, \$529,855, “Improving Dietary Assessment Methods Using the Cell Phone and Digital Imaging.”

Boutin, Mireille; electrical & computer engineering, from National Science Foundation, \$68,841, “Efficient Methods for Automatic Recognition with Application to Target Identification – Amendment 1.”

Bowen, Gabriel J; earth & atmospheric sciences, from National Geospatial-Intelligence Agency, \$10,000, “Prediction and Validation of Water Supply Sensitivity through GIS-Based Integration of Environmental, Demographic, and Stable Isotope Data.”

Bowman, Keith J; materials engineering, from Purdue University F N Andrews Fellowship, \$17,001, “Fellowship.”

Bowman, Keith J; materials engineering, from Ross Graduate Fellowship/Assistantship, \$17,001, “Fellowship.”

Bowman, Keith J; Blendell, John E and Garcia, R Edwin; materials engineering, from National Science Foundation, \$25,000, “FRG: Domain Orientation and Anisotropy in Poled Piezoelectrics – Amendment 1.”

Bowman, Keith J; materials engineering, from Purdue University F N Andrews Fellowship, \$16,750, “Fellowship.”

Bowman, Keith J; materials engineering, from Ross Graduate Fellowship/Assistantship, \$17,001, “Fellowship.”

Braun, James E; mechanical engineering, from National Institute of Standards & Technology, \$50,000, “Extension of a Virtual Refrigerant Charge Sensor.”

Bridges, Glen A; animal sciences, from Harris, Matt, \$200, “Select Grant.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$31,372, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$31,383, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$23,794, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$33,382, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$34,387, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$35,392, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$37,402, “Joint PhD Program for Graduate Support.”

Brightman, Andrew O; biomedical engineering, from IU School of Medicine, \$35,347, “Joint PhD Program for Graduate Support.”

Brouder, Sylvie M; agronomy, from Purdue Doctoral Program, \$16,750, “Fellowship.”

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$150,000, “Application of Travel Time and Travel Time Reliability Information for: Traffic Management, Media/Public Outreach During Construction, and Innovative.”

Buzon, Michele R; anthropology, from American Philosophical Society, \$5,000, “A Bioarchaeological Examination of Identity and Migration in Ancient Nubia During the Formation of the Napatan State.”

Cabot, Ryan A; animal sciences, from Viagen Inc, \$500, “Cabot Gifts.”

Camberato, James J; agronomy, from Dow Agrosiences, \$9,000, “Crop Response to Micronutrient Fertilizers.”

Campbell, Wayne W; foods & nutrition, from National Pork Board, \$99,999, “Increased Protein Intakes from Predominantly Meat Versus Soy Protein/Pulses-Based Foods; Effects on Daily and Postprand.”

Campbell, Wayne W; foods & nutrition, from National Cattlemen’s Beef Association, \$99,999, “Increased Protein Intakes from Predominantly Meat Versus Soy Protein/Pulses-Based Foods; Effects on Daily and Postprandial Appetite During Energy Restriction-Induced Weight Loss.”

Cason, Timothy N and Savikhin, Anna; department of economics, management, from International Foundation for Research in Experimental Economics, \$3,025, “An Experimental Study of Reputation with Differently Valued Goods.”

Chakravarty, Sugato; consumer science & retail, from Purdue Doctoral Program, \$16,750, “Fellowship.”

Chang, Fen-Lei; medical education – Fort Wayne campus, from Indiana University, \$6,500, “FY 2009-2010 IUSM Fort Wayne NBME Shelf Exams.”

Chappell, William J; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$120,000, “System on a CHIP.”

Chaubey, Indrajeet; agricultural & biological engineering, from Purdue Doctoral Program, \$16,750, “Fellowship.”

Chen, Weinong W; aeronautical & astronautical engineering, from Army Research Laboratory, \$215,000, “Dynamic Deformation and Failure Behavior of Soft Materials.”

Chen, Yong P; physics, from National Science Foundation, \$20,000, “Quantum Control of Polar Molecules for Quantum Information and Quantum Computing.”

Cheng, Gary J; industrial engineering, from National Science Foundation, \$215,050, “IDR/Collaborative Research: Manufacturing Functional Laminated Composite Structures on Patterned Uneven Three-Dimensional Surfaces.”

Cheng, Ji-Xin; biomedical engineering, from Roche Palo Alto LLC, \$70,000, “Imaging Liposome-Mediated Drug Delivery by CARS/SRS Microscopy.”

Cheng, Ji-Xin; biomedical engineering, from American Heart Association, \$52,000, “Label-Free NLO Imaging to Elucidate the Role of Foam Cell Formation at Inflamed Adventitia in Plaque Vulnerability.”

Chester, Julia A; psychological sciences, from PHS-NIH National Institute on Alcohol Abuse, \$233,119, “Anxiety and Alcohol Drinking in a Genetic Animal Model of Alcoholism.”

Christmon, Kenneth C; office of diversity & multicultural affairs – Fort Wayne campus, from Indiana Department of Workforce Development, \$147,403, “Career and Technical Education Student Services.”

Ciftci, Ayse; educational studies, from Purdue Research Foundation: XR Grant, \$16,750, “International Students Psychological Well-Being During the College-to-Career Transition in the United States.”

Collins, William B and Witz, Steven M; Regenstrief Center for Healthcare Engineering, from Women’s Oncological Research & Development, \$137,311, “Womens Oncological Research and Development (WORD) Needs Assessment Project.” (a Discovery Park award — Regenstrief Center for Healthcare Engineering)

Cordes, Samuel M; Office of Engagement, from Ball State University, \$10,000, “Continuation of HTC Site Coach Services.”

Cordes, Samuel M; Office of Engagement, from Indiana Economic Development Corporation, \$45,140, “Southeastern Small Business Development Center - CDAG - July-December 2009.”

Cosier, Richard A; management, from Foundation Center-Cleveland, \$3,941, “Krannert School of Managements Graduate Program to Provide Scholarships to First-Year Students Based on Academic Merit.”

Cox, Monica F; Dunston, Phillip S; Fentiman, Audeen W; Lynch, Cyndi D and Shaw, Pamela P; engineering education, civil engineering, College of Engineering Administration Engineering Experiment, Graduate School Administration, Office of the Provost, from National Science Foundation, \$573,597, “Reinvigorating Engineering and Changing History (REACH) Scholars Program.”

Crawford, Melba M; civil engineering, from Purdue University F N Andrews Fellowship, \$19,009, “Fellowship.”

Csathy, Gabor A; physics, from National Science Foundation, \$296,861, “Thermodynamic Measurements of a Collective Phases of Two-Dimensionally Confined Charge Carriers.”

Cushman, Mark S; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$244,098, “Novel Indenoisoquinoline Topoisomerase I Inhibitors.”

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

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

Doerge, Rebecca W; statistics, from University of Arizona, \$53,193, “The iPlant Collaborative: a Cyberinfrastructure-Based Community for a New Plant Biology – Amendment 1.”

Doudareva, Natalia; horticulture & landscape architecture, from National Science Foundation, \$1,042,558, “Benzoic Acid Biosynthesis in Plants.”

Drachev, Vladimir P; Kildishev, Alexander V and Shalaev, Vladimir M; electrical & computer engineering/Birck Nanotechnology Center, from General Dynamics Information Technology Inc., \$18,750, “Spectroscopic Ellipsometry of Optical Metamaterials.” (a Discovery Park award — Birck Nanotechnology Center)

Drachev, Vladimir P; Kildishev, Alexander V and Shalaev, Vladimir M; electrical & computer engineering/Birck Nanotechnology Center, from General Dynamics Corp., \$126,213, “Spectroscopic Ellipsometry of Optical Metamaterials.” (a Discovery Park award — Birck Nanotechnology Center)

Eales, James S; agricultural economics, from Economic Research Service, \$42,151, “New Frontiers in Meat Demand Analysis.”

Ebert, David S; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,750, “VACCINE.”

Ebert, David S; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,750, “VACCINE.”

Edwards, Anne B; behavioral sciences – Calumet campus, from Northwest Indiana Community Action Corp., \$9,983, “Caregiver Support Groups.”

Engel, Bernard A and Quansah, Joseph E; agricultural & biological engineering, from Ducks Unlimited, \$25,000, “Evaluation of Geospatial Database Development and Hydrologic Modeling Approach for Flood Frequency Assessment Within the Lower Mississippi Valley (LMV).”

Ericson, Karen L; chemistry – Fort Wayne campus, from Wyle Laboratories, \$6,200, “Pyridoxic Acid Analysis.”

Eugster, Patrick T; computer science, from National Science Foundation, \$8,000, “REU: CSR-PSCE, SM: Memory Management Innovations for Next-Generation SMP.”

Eugster, Patrick T; computer science, from National Science Foundation, \$8,000, “REU: CAREER: Pervasive Programming with Event Correlation.”

Eugster, Patrick T and Zhang, Xiangyu; computer science, from National Science Foundation, \$139,923, “CSR-DMSS, SM: a Holistic Approach to Reliable Pervasive Systems – Amendment 1.”

Eugster, Patrick T; computer science, from National Science Foundation, \$110,000, “CSR-PSCE, SM: Memory Management Innovations for Next-Generation SMP – Amendment 2.”

Evans, Dennis H; chemistry, from National Science Foundation, \$321,255, “Analytical and Mechanistic Studies in Electrochemistry.”

Farris, Thomas N; aeronautical & astronautical engineering, from Purdue Doctoral Program, \$18,935, “Fellowship.”

Farris, Thomas N; aeronautical & astronautical engineering, from Chappelle, \$18,935, “Fellowship.”

Farris, Thomas N; aeronautical & astronautical engineering, from Purdue University F N Andrews Fellowship, \$16,000, “Fellowship.”

Fernandez-Juricic, Esteban; biological sciences, from Kaytee Avian Foundation, \$2,000, “Field Tests of Kaytee Regional Bird Feeder Formulas.”

Foster, Ricky E; entomology, from Dow Agrosciences, \$1,000, “Vegetable & Fruit Research.”

Frankel, Steven H; mechanical engineering, from IU School of Medicine, \$10,000, “Blood Pump Design and Modeling.”

Friedman, Alan M; biological sciences/Bindley Bioscience Center, from National Science Foundation, \$96,568, “III-Medium: Collaborative Research: Integration, Prediction, and Generation of Mixed Mode Information Using Graphical Models, with Applications to Protein-Protein Interactions.” (a Discovery Park award — Bindley Bioscience Center)

Fuchs, Philip L; chemistry, from PHS-NIH National Cancer Institute, \$392,765, “Synthesis & Mechanism of Cephalostatin Anticancer Drugs.”

Garcia, R Edwin; materials engineering, from National Science Foundation, \$237,112, “Collaborative Research: Mechanical and Electrical Reliability Maximization of Rechargeable Lithium-Ion Batteries through Microstructure Design.”

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

Garimella, Suresh V; mechanical engineering, from National Science Foundation, \$74,936, “LIFT Measurements of Thermal Fields Around Growing Bubbles.”

Garimella, Suresh V; mechanical engineering, from National Science Foundation, \$61,783, “RXBC Nano-Modified Carbon Fiber CTRC.”

Garrison, James L; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$50,157, “Proposal to Augment NASA Grant NNX08A087G: Comparison of GNSS-R Ocean Roughness Measurements with Radiometric and Scattering Models at L-Band and S-B.”

Gazo, Rado; forestry & natural resources, from U.S. Forest Service, \$500,000, “Continuation of Hardwood Scanning Center Development.”

Ghafoor, Arif; electrical & computer engineering, from National Institute of Standards & Technology, \$25,000, “Context-Aware Extension of Policy Machine for Generic Access Control.”

Ghosh, Arun K; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$366,206, “Design and Synthesis of Nonpeptide Protease Inhibitors.”

Goldsbrough, Peter B; botany & plant pathology, from Winifred B. Bilsland Endowment, \$8,786, “Fellowship.”

Goldsbrough, Peter B; botany & plant pathology, from Ross Graduate Fellowship/Assistantship, \$16,750, “Fellowship.”

Goldsbrough, Peter B; botany & plant pathology, from Winifred B. Bilsland Endowment, \$8,786, “Fellowship.”

Govindaraju, Rao S; civil engineering, from Ludwig Kruhe Graduate Scholarship, \$16,685, “Fellowship.”

Grama, Ananth Y; computer science, from U.S. Department of Energy, \$80,000, “Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking – Amendment 2.”

Grama, Ananth Y; computer science, from University of California-San Diego, \$149,126, “Biochemical Pathways Workbench Purchase Order 10283711-01.”

Gribskov, Michael R; biological sciences, from National Science Foundation, \$902,262, “Sequence and Structural Patterns in RNA.”

Gurney, Kevin R; earth & atmospheric sciences/Purdue Climate Change Research Center, from National Science Foundation, \$647,073, “CAREER: a Highly-Resolved, Process-Driven Fossil Fuel CO₂ Inventory to Advance Carbon Science, Climate Science, Decision Making and Education.” (a Discovery Park award — Purdue Climate Change Research Center)

Gurney, Kevin R; earth & atmospheric sciences, from Schlumberger Foundation, \$29,287, “Charlotte Kendra Castillo 09/10 Faculty for the Future.”

Haddad, Jeffrey M; health & kinesiology, from Purdue Research Foundation: XR Grant, \$16,750, “The Effects of Aging on the Integration Between Balance & Manual Control.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$690,000, “Hazard Elimination Project for Local Roads and Street/Helpers Project.”

Handwerker, Carol A; materials engineering, from American Competitiveness Institute, \$23,994, “B2P Lead Free Manhattan Project.”

Hanson, William E; educational studies, from Purdue Research Foundation: XR Grant, \$16,750, “College Student Athletes Affinity for Gambling: a Mixed Methods Study.”

Hartman, Nathan W; computer graphics technology, from Rolls-Royce Corporation, \$48,920, “Liffan Focus Factory Proposal.”

Hassanein, Ahmed; nuclear engineering, from Medical University of South Carolina, \$32,022, “Nuclear Forensics Graduate Fellowship.”

Hazbun, Tony R; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$308,836, “Integrated Genomewide Analysis of the IpL1 Kinase Signaling Network.”

Hermodson, Mark A; college of agriculture - administration, from Agricultural Research Service, \$34,713, “Acquisition of Goods and Services - ARS Task Order for Physical Facilities NREL.”

Hirleman, E D; mechanical engineering, from Ashrae, Inc., \$10,000, “ASHRAE Grant in Aid.”

Hirleman, E D; mechanical engineering, from Ross Graduate Fellowship/Assistantship, \$8,500, “Fellowship.”

Hirleman, E D; mechanical engineering, from Purdue Doctoral Program, \$17,001, “Fellowship.”

Hirleman, E D; mechanical engineering, from American Society for Engineering Education, \$32,023, “SMART Program Fellowship.”

Hirleman, E D; mechanical engineering, from Vietnam Education Foundation, \$27,000, “Fellowship.”

Hirleman, E D; mechanical engineering, from Josephine De Karman Fellowships, \$22,000, “09/10 Fellow for the Josephine De Karman Fellowship.”

Hirleman, E D; mechanical engineering, from Lynn Interdisciplinary Graduate Fellowship, \$19,009, “Fellowship.”

Hirleman, E D; mechanical engineering, from U.S. Department of Defense, \$32,648, “T Hedman Smart Fellowship.”

Hooser, Stephen B; Animal Disease Diagnostic Laboratory, from Animal Plant Health Inspection Service, \$86,519, “Cooperative Animal Disease Detection Control and Eradication Program.”

Howe, Katherine M; botany & plant pathology, from Ian Shackelford, \$40, “Katherine Howe Gift Fund.”

Howe, Katherine M; botany & plant pathology, from David or Susan Horvath., \$20, “Katherine Howe Gift Fund.”

Howe, Katherine M; botany & plant pathology, from U.S. Forest Service, \$30,000, “USFS State & Private Forestry Cooperative Weed Management Area Training.”

Howe, Katherine M; botany & plant pathology, from Charlotte Adelman, \$20, “Katherine Howe Gift Fund.”

Howe, Katherine M; botany & plant pathology, from Eco Logic LLC, \$100, “Katherine Howe Gift Fund.”

Howell, Kathleen; aeronautical & astronautical engineering, from U.S. Department of Defense, \$32,023, “NDESG Fellowship.”

Howell, Kathleen; aeronautical & astronautical engineering, from Office of Naval Research, \$11,423, “ASEE SMART Fellowship.”

Huang, Chi-Hua; agronomy, from Agricultural Research Service, \$10,560, “Acquisition of Goods and Services.”

Huber, Matthew; earth & atmospheric sciences, from Digital Cyclone Inc., \$19,748, “AMP Consortium.”

Huber, Matthew and Bowen, Gabriel J; earth & atmospheric sciences/Purdue Climate Change Research Center, from National Science Foundation, \$472,346, “Collaborative Research: Integrating Proxies and Earth System Models to Elucidate Water Cycle Dynamics: Did Global Warming Cause an Enhanced Hydrological Cycle in the Eocene?” (a Discovery Park award — Purdue Climate Change Research Center)

Hwang, Inseok; aeronautical & astronautical engineering, from Mosaic ATM Inc., \$21,000, “Automated Real-Time 4d Trajectory Prediction for Airborne Threats.”

Ileleji, Klein; agricultural & biological engineering, from The GSI Group LLC, \$10,000, “Multi - Sponsored Gift Account.”

Irazaqui, Pedro; biomedical engineering, from Wallace H Coulter Foundation, \$260,000, “A Continuous Wireless Seizure Monitoring Device for Surgical Candidates.”

Irfanoglu, Ayhan and Sozen, Mete A; civil engineering, from National Science Foundation, \$75,000, “Collaborative Research: The Learning Bridge.”

Ishii, Mamoru; nuclear engineering, from Bechtel Bettis, Inc., \$220,000, “Three Dimensional Interfacial Area Transport Equation (IATE) Development PO 3017044 – Amendment 1.”

Ishii, Mamoru and Hibiki, Takashi; nuclear engineering, from Nuclear Regulatory Commission, \$170,000, “Suppression Pool Void Distribution During Blowdown.”

Ivanisevic, Albena; biomedical engineering, from National Science Foundation, \$262,163, “Surface Engineering of Gallium Nitride with Biomolecules.”

Jackson, Scott A; agronomy, from Cooperative State Research Service, \$10,000, “The World Soybean Congress VIII.”

Janle, Elsa M and Kritchevsky, Janice E; foods & nutrition, veterinary clinical science, from Pinnacle Technology Inc., \$42,596, “A Self-Contained Wireless Modular Separation Based Sensor System.”

Jesiek, Brent K and Wankat, Phillip C; electrical & computer engineering, chemical engineering, from National Science Foundation, \$139,398, “Collaborative Research: Interactive Knowledge Networks for Engineering Education Research (IKNEER).”

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

Jin, Ge; computer information technology - Calumet campus, from Vrsonic Inc., \$42,000, “Facial State Recognition Research Project.”

Johal, Gurmukh S and Weil, Clifford F; botany & plant pathology, agronomy, from National Science Foundation, \$750,583, “Mutant-Assisted Exploration of Natural Variation Underlying R Gene-Mediated Immunity in Maize – Amendment 1.”

Johnson, William G; botany & plant pathology, from Dow Agrosiences, \$46,750, “Weed Research.”

Jovanovic, Igor; Allain, Jean P; Harilal, Sivanandan and Fentiman, Audeen W; nuclear engineering, College of Engineering Administration Engineering Experiment, from U.S. Department of Energy, \$300,000, “Infrastructure Support for the School of Nuclear Engineering, Purdue University.”

Jung, Byunghoo; electrical & computer engineering, from Electronics and Telecommunications Research Institute, \$38,000, “A Self-Healing Clock Generator with Jitter Control Techniques.”

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

Kazacos, Kevin R; compar pathobiology, from Memphis Zoological Society, \$2,350, “Tapeworm Research Program.”

Kelly, Brian C; sociology, from PHS-NIH National Institute on Drug Abuse, \$195,492, “Community-Based Study of Methamphetamine Use & HIV Risk in China.”

Kelly, Brian C; sociology, from PHS-NIH National Institute on Drug Abuse, \$614,984, “Prescription Drug Abuse in Club Subcultures: Contexts & Risks.”

Kentamaa, Hilikka I; chemistry, from National Science Foundation, \$155,000, “Gas Phase Studies Organic Sigma-Type Polyradicals.”

Key, Nicole L; mechanical engineering, from General Electric Company, \$196,000, “GE Aeromechanics Compressor Test.”

Kihara, Daisuke; biological sciences, from National Science Foundation, \$327,606, “III: Small: Quality Assessment of Computational Protein Models.”

Kinzig, Kimberly P; psychological sciences, from PHS-NIH National Institute Diabetes & Digestive & Kidney Diseases, \$75,341, “Effects of Dietary Macronutrients on Regulation of Energy Balance.”

Klimeck, Gerhard; electrical & computer engineering, from SRC Education Alliance, \$58,435, “SRC Education Alliance Masters Scholarship Program.”

Klimeck, Gerhard; electrical & computer engineering, from National Science Foundation, \$45,000, “Collaborative Research: Quantum Simulator for Modeling Quantum DOT Photodetectors – Amendment2.”

Knipp, Gregory T; industrial & physical pharmacy, from Bioanalytical Systems, Inc., \$29,442, “Novel Animal Modeling of the PK for Generic Formulations.”

Kong, Nan; biomedical engineering, from University of Pittsburgh, \$50,000, “University of Pittsburgh.”

Koslowski, Marisol; mechanical engineering, from DOE/ER-Basic Energy Sciences, Materials Sciences, \$124,584, “Plasticity in Ultra Fine Grained Materials – Mod 2.”

Kovach, Ronald J and Reason, Jacqueline P; University Division – Calumet campus, Educational Opportunities Program – Calumet campus, from Indiana Department of Workforce Development, \$93,221, “Perkins 2009-2010.”

Kreger, Michael E and Frosch, Robert J; civil engineering, from Indiana Department of Transportation, \$196,300, “Development of a Cost Effective Bridge Preservation and Rehabilitation Program, SPR-3320.”

Krutz, Gary W; agricultural & biological engineering, from Thomas A & Virginia R Burke, \$1,000, “Ag & Bio Engineering – Research.”

Kulatunga, N A; electrical & computer engineering technology, from Landis & Gyr Metering Inc., \$100,000, “Landis + Gyr Smart Meter Integration Lab (L+G-SMIL).”

Latin, Richard X; botany & plant pathology, from Arysta Lifescience North America Corp, \$2,400, “Turfgrass Disease Research.”

Latin, Richard X; botany & plant pathology, from Midwest Regional Turf Foundation, \$10,000, “Turfgrass Disease Research.”

Lechtenberg, Victor L; Office of Engagement, from Central Indiana Corporate Partnership, \$2,000,000, “New Lilly/CICP Resource Network Grant.”

Lee, Chun-Sing G; Hu, Y Charlie; Lu, Yung-Hsiang and Raghunathan, Vijay; electrical & computer engineering, from National Science Foundation, \$347,300, “CRI: II-NEW: Adaptive Robotic Testbed for Wireless Sensor Networks and Autonomous Systems.”

Lee, Kyungyong; mathematics, from National Science Foundation, \$91,157, “Commutative Algebra of Alternating Polynomials.”

Lee, Linda S; agronomy, from Purdue Doctoral Program, \$16,750, “Fellowship.”

Li, Kai Ming and Bolton, J S; mechanical engineering/Discovery Park Administration, from Federal Aviation Administration, \$25,000, “Project 26: Development of a Research Roadmap for Sound Structural Transmission.” (a Discovery Park award — Discovery Park Administration)

Li, Ninghui; computer science, from National Science Foundation, \$300,000, “TC: Medium: Collaborative Research: Techniques to Retrofit Legacy Code.”

Li, Peijun; mathematics, from National Science Foundation, \$84,852, “Direct and Inverse Scattering Problems in Near-Field Optics Modeling.”

Li, Zhiyuan; computer science, from National Science Foundation, \$429,088, “CSR: Small: New Slicing Techniques for Program Parallelization.”

Lin, Xiaojun; electrical & computer engineering, from National Science Foundation, \$59,650, “NOSS: Collaborative Research: Energy-Efficient Distributed Sensor Network Control – Amendment 2.”

Linton, Richard H; Bhunia, Arun K; Ladisch, Michael R; Applegate, Bruce M and Mauer, Lisa J; College of Agriculture – administration, food science, agricultural & biological engineering, from Agricultural Research Service, \$1,496,658, “Improved Detection Techniques for Foodborne Pathogens.”

Lister, Matthew L; physics, from National Aeronautics and Space Administration, \$195,703, “The MOJAVE Program: Jet Kinematics of Gamma-Ray Blazars.”

Loew, Tamara F; Student Health Center, from Coalition for a Drug Free Tippecanoe County, \$2,263, “2009-10 Social Marketing Campaign: Purchasing Alcohol for Minors.”

Lopez, Roberto G; horticulture & landscape architecture, from Fine Americas Inc., \$20,500, “Multi Sponsored Gift Account.”

Lowenberg-Deboer, James M; International Programs in Agriculture, from Foreign Agricultural Service, \$29,217, “Afghan Faculty Exchange Program.”

Lucht, Robert P; mechanical engineering, from National Aeronautics and Space Administration, \$45,375, “Coherent Anti-Stokes Raman Scattering (CARS) for Quantitative Temperature and Concentration – Supplement 6.”

Lucht, Robert P; Xu, Xianfan; Cheng, Ji-Xin; Irudayaraj, Joseph M; Jovanovic, Igor; Simpson, Garth J and Weiner, Andrew M; mechanical engineering, biomedical engineering, agricultural & biological engineering, nuclear engineering, chemistry, electrical & computer engineering, from National Science Foundation, \$485,790, “MRI: Acquisition of a High-Pulse-Energy Ultrafast Laser System for Interdisciplinary Research.”

Luke, Eileen M; CERIAS, from Cooperative State Research Service, \$248,250, “NPDN National Database/National Network of Diagnostic Centers.”

Lumkes, John H and Denton, Nancy L; agricultural & biological engineering, mechanical engineering technology, from American Axle & Manufacturing, Inc, \$133,120, “Driveline Torque Data Acquisition.”

Luo, Zhao-Qing; biological sciences, from PHS-NIH National Institute of Allergy & Infectious Diseases, \$72,558, “An in vivo Gene Deletion System for Analyzing Temporal Requirement of the DOT/Icm.”

Lyanda-Geller, Yuli; physics, from National Science Foundation, \$300,000, “QMHP: Decoherence, Dissipation, Entanglement, and Control in Nanostructures.”

MacdermidWadsworth, Shelley; College of Consumer & Family Sciences, from Science Applications International Corp., \$130,000, “Navy Family Diversity Project.”

MacDermidWadsworth, Shelley; College of Consumer & Family Sciences, from World at Work, \$10,500, “Kanter Sponsorship.”

Maier, Dirk E; agricultural & biological engineering, from Opisystems, \$1,700, “Crop Drying Project.”

Malik, Tanu; Cyber Center, from John Hopkins University, \$10,451, “John Hopkins University.”

Mao, Chengde; chemistry, from University of Illinois at Champaign-Urbana, \$49,275, “RNA Nanomotor Based Active Devices for Biology and Medicine – Amendment 1.”

Marais, Karen; Aeronautics & Astronautics/Discovery Park Administration, from Federal Aviation Administration, \$104,514, “Use of Near-Term Operational Changes to Mitigate Environmental Impacts of Aviation.” (a Discovery Park award — Discovery Park Administration)

Martini, Ashlie M; mechanical engineering, from National Science Foundation, \$25,386, “Collaborative Research: Dissipation in Atomic-Scale Friction — a Coordinated Experimental and Modeling Study.”

Mathur, Aditya P; computer science, from The National Gem Consortium, \$20,000, “GEM PhD Fellowship.”

Mathur, Aditya P; computer science, from Winifred B. Bilsland Endowment, \$6,312, “Fellowship.”

Mathur, Aditya P; computer science, from Purdue Doctoral Program, \$16,685, “Fellowship.”

Mathur, Aditya P; computer science, from The National Gem Consortium, \$8,333, “GEM Masters Fellowship.”

Mathur, Aditya P; computer science, from Vietnam Education Foundation, \$27,000, “VEF Fellowship.”

Mattes, Richard D; foods & nutrition, from PHS-NIH National Institute of Diabetes & Digestive & Kidney Diseases, \$88,540, “Interdisciplinary Training in Signals Controlling Ingestion and Obesity.”

Mauer, Lisa J; food science, from Purdue Doctoral Program, \$16,750, “Fellowship.”

McCann, Maureen C; Abu-Omar, Mahdi M; Agrawal, Rakesh; Carpita, Nicholas C; Chapple, Clint C; Delgass, W N; Kentamaa, Hilikka I; Mosier, Nathan S; Ribeiro, Fabio H; Simpson, Garth J; Staiger, Christopher J; Szymanski, Daniel B and Thomson, Kendall T; agricultural & biological engineering, agronomy, biochemistry, biological sciences, chemistry/ Energy Center, from U.S. Department of Energy,

\$15,074,136, “Center for the Catalytic Conversion of Biomass to Bioenergy (C3bio).” (a Discovery Park award — Energy Center)

McNamara, Kevin T and Foster, Ricky E; International Programs in Agriculture, entomology, from U.S. Department of Agriculture, \$74,988, “Borlaug-Afghanistan.”

Michalski, Greg M; earth & atmospheric sciences/Purdue Climate Change Research Center, from National Science Foundation, \$335,000, “A New Regional Paleo-Precipitation Proxy: Oxygen Isotopes in Desert Nitrate.” (a Discovery Park award — Purdue Climate Change Research Center)

Michler, Charles H; forestry & natural resources, from Indiana Chapter American Chestnut Foundation, \$1,000, “Vol. Support – American Chestnut.”

Michler, Charles H; forestry & natural resources, from National Science Foundation, \$70,000, “Collaborative Research: Center for Advanced Forestry Systems – Amendment 3.”

Mickelbart, Michael V; horticulture & landscape architecture, from Dow Agrosiences, \$18,000, “Landscape Architecture Research.”

Midkiff, Samuel P and Hu, Y Charlie; electrical & computer engineering, from National Science Foundation, \$493,235, “SHF: Small: Ant: Automatic and Manual Debugging Support for Massively Parallel Programs.”

Mitchell, Cary A; horticulture & landscape architecture, from National Aeronautics and Space Administration, \$279,000, “Maturing Technology for Major Reductions in Energy, Mass, and Crew Time for Plant Lighting in Space.”

Mohammed, Jaby; civil & architectural engineering – Fort Wayne campus, from Kentucky Governor’s Scholar Program, \$5,800, “Kentucky Governors Scholars Program.”

Morris, Pamala V; College of Agriculture – administration, from Indiana State Department of Agriculture, \$20,000, “HASA Program.”

Mroczek, Daniel K; child development & family studies, from PHS-NIH National Institute on Aging, \$255,849, “Personality and Well-Being Trajectories in Adulthood.”

Mudawar, Issam; mechanical engineering, from BAE Systems Advanced Technologies, Inc., \$50,002, “Spray Cooling of Inner Bores of Gun Tubes Analysis.”

Murphy, Angus S; horticulture & landscape architecture, from National Science Foundation, \$125,000, “Analysis of APL1 Regulation of Auxin and Jasmonic Acid Signalling in Arabidopsis.”

Murthy, Jayathi Y; mechanical engineering, from U.S. Department of Energy, \$500,000, “PRISM: Center for Prediction of Reliability, Integrity and Survivability of Microsystems – Amendment 3.”

Narsimhan, Ganesan; agricultural & biological engineering, from Frito-Lay Inc., \$15,000, “Ag & Bio Engineering Research.”

Nauman, Eric A; Breur, Gert J and Neu, Corey P; mechanical engineering, veterinary clinical science, biomedical engineering, from Amipurdu, \$301,000, “Tissue Scaffold: Cartilage Application.”

Neumeister, Norbert; physics, from University of California-Los Angeles, \$423,300, “Statement of Work: for Maintenance and Operations Activities Related to the US CMS Software and Computing User Facilities Sub-Project – Amendment No. 4.”

Newton, Kathryn A; industrial technology, from University of Industrial Distribution, \$10,000, “Coordination of University of Industrial Distribution Program.”

Nita-Rotaru, Cristina; computer science, from National Science Foundation, \$80,000, “Career: Scalable, Robust and Secure Group-Oriented services for Wireless Mesh Networks – Amendment 5.”

Nita-Rotaru, Cristina; computer science, from National Science Foundation, \$250,000, “NeTS:Medium:Collaborative Research: Secure Networking Using Network Coding.”

Nnanna, Agbai A; mechanical engineering – Calumet campus, from U.S. Department of Energy, \$924,858, “Water Environmental Institute – Mod 4.”

Nyenhuis, John A; electrical & computer engineering, from Zimmer, \$30,000, “Evaluations of Interactions of MRI (Magnetic Resonance Imaging) Magnetic Fields with Zimmer TM Orthopaedic Implants.”

Obermeyer, John L; entomology, from Mary S. Rice Farm Estate, \$3,000, “Black Light Trap Support.”

Ohland, Matthew W; engineering education, from National Science Foundation, \$301,915, “Socioeconomic Factors in Engineering Pathways.”

Ohland, Matthew W and **Wasburn, Mara H**; engineering education, organizational leadership & supervision, from National Science Foundation, \$99,967, “Collaborative Research: the Effect of Climate and Pedagogy on Persistence – Amendment 2.”

Ohm, Herbert W; agronomy, from Ag Alumni Seed Improvement Association, \$7,500, “Wheat Genetics Research.”

Ohm, Herbert W; agronomy, from Valent U.S.A Corporation, \$1,800, “Wheat Genetics Research.”

Pandurangan, Gopalakrishnan C; computer science, from National Science Foundation, \$225,001, “AF:Small:Collaborative Research:Algorithmic Problems in Protein Structure Studies.”

Panitch, Alyssa; biomedical engineering, from Biomet Inc., \$25,000, “In Vitro Activity of Autologous IL-1ra.”

Park, Kihong; computer science, from National Science Foundation, \$335,448, “NeTS:Small: Toward High-Performance WLANs: Bridging the Physical Layer Divide.”

Parker, Laurie L; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$139,631, “Biosensor Design for Detection and Analysis of Complex Signal Patterns in Cancer.”

Peeta, Srinivas; Discovery Park Administration, from Foreign Affairs & International Trade CA, \$30, “Increase of Award for Grant 203978.” (a Discovery Park award — Discovery Park Administration)

Pekny, Joseph F; industrial engineering, from American Society for Engineering Education, \$32,648, “J Vivaldo Smart Fellowship.”

Peroulis, Dimitrios; electrical & computer engineering, from National Science Foundation, \$80,000, “Career: Liquid Radio Frequency Electronics – Amendment 1.”

Pope, Phillip E; **Jacobs, Douglass F**; **Carlson, Donald E** and **Rathfon, Ronald A**; forestry & natural resources, from Office of Surface Mining Reclamation & Enforcement, \$168,854, “Integrating the Forestry Reclamation Approach for Mine Reclamation of American Chestnut and Oaks in the Mid-Continent Region.”

Porterfield, D. M; agricultural & biological engineering/Bindley Bioscience Center, from National Aeronautics and Space Administration, \$30,000, “A Haque 09/10 NASA Nessf Fellowship — Gravitational Physiology of the

Photoautotroph Cyanobacteria: a Novel Study with a Pharmasat Compatible.” (a Discovery Park award — Bindley Bioscience Center)

Porterfield, D. M; agricultural & biological engineering/Bindley Bioscience Center, from National Science Foundation, \$120,000, “A Platform for Self-Referencing Optrodc Sensing.” (a Discovery Park award — Bindley Bioscience Center)

Porterfield, D. M; agricultural & biological engineering, from National Aeronautics and Space Administration, \$50,292, “GraviSat: a Nanosatellite-Compatible System to Generate Artificial Gravity Using a Rotating CD Platform for Space Studies – Supplement 1.”

Pothen, Alex; computer science, from U.S. Department of Energy, \$368,711, “Combinatorial Scientific Computing and Petascale Simulations Institute – Modification No. 1.”

Preckel, Paul V and **Gotham, Douglas J**; SUFG/Energy Center, from Indiana Utility Regulatory Commission, \$1,298,974, “To Continue the Work of the State Utility Forecasting Group.” (a Discovery Park award — Energy Center)

Pyrak-Nolte, Laura J and **Giordano, Nicholas J**; physics, from National Science Foundation, \$375,000, “Geometry & Dynamics of Interfaces in Porous Media.”

Qi, Yuan; computer science, from National Science Foundation, \$358,544, “RI Small: Relational Learning and Inference for Network Models.”

Radcliffe, David F; engineering education, from Ross Graduate Fellowship/Assistantship, \$8,500, “Fellowship.”

Radcliffe, David F; engineering education, from Ross Graduate Fellowship/Assistantship, \$8,500, “Fellowship.”

Raftery, M D; chemistry, from PHS-NIH National Institute of General Medical Science, \$207,077, “Administrative Supplement to: Advanced Methods in NMR-Based Metabolomics.”

Raghunathan, Anand and **Eigenmann, Rudolf**; electrical & computer engineering/Cyber Center, from National Science Foundation, \$477,739, “SHF: Small: High-Level Programming Models and Frameworks for GPGPU-Based Computing.” (a Discovery Park award — Cyber Center)

Raman, Arvind; mechanical engineering/Birck Nanotechnology Center, from National Science Foundation, \$365,000, “GOALI: Nonlinear, Multi-Modal, and Stochastic Dynamics of Low-Stiffness Microcantilevers in Liquid Environment Atomic Force Microscopy.” (a Discovery Park award — Birck Nanotechnology Center)

Ramani, Karthik; **Adams, George B**; **Jamieson, Leah H**; **Jiang, Wen** and **Lundstrom, Mark S**; mechanical engineering, Network for Computational Nanotechnology, College of Engineering Administration Engineering Experiment, biological sciences, electrical & computer engineering, from National Science Foundation, \$599,809, “PFI: 3Dhub: a Geometric Kernel and Infrastructure for Community-Based Rapid Application Development and Deployment.” (a Discovery Park award — Center Network for Computational Nanotechnology)

Raskin, Rose E; comparative pathobiology, from Antech Diagnostics, \$1,300, “Immunocytochemistry Research.”

Ratliff, Timothy L; comparative pathobiology/Cancer Research Center, from PHS-NIH National Cancer Institute, \$99,286, “NCI Cancer Center Supplement for Undergraduate Student Research Experiences- P30s.”

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

Reicher, Zachary J; agronomy, from Monsanto Company, \$1,000, “Turfgrass Weed Management Research Programs.”

Reicher, Zachary J and **Bigelow, Cale A**; agronomy, from Midwest Regional Turf Foundation, \$8,488, “Midwest Regional Turf Foundation.”

Reicher, Zachary J; agronomy, from Midwest Regional Turf Foundation, \$15,000, “Turfgrass Research.”

Reicher, Zachary J; agronomy, from Basf Corporation, \$5,000, “Turfgrass Weed Management Research Programs.”

Reicher, Zachary J; agronomy, from Dow Agrosiences, \$45,000, “Service and Site Agreement.”

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

Reicher, Zachary J; agronomy, from Dow Agrosiences, \$63,000, “Turfgrass Weed Management Research Programs.”

Richmond, Douglas S; entomology, from Dupont, E.I. Denemours and Company, \$18,000, "Turfgrass Entomology Research."

Ridgway, Kenneth D; earth & atmospheric sciences, from National Science Foundation, \$130,044, "Collaborative Research: Sedimentary Basin Response to Paleocene-Eocene Spreading Ridge Subduction in South-Central Alaska."

Rivers, Robert; education – Calumet campus, from Office of Naval Research, \$150,000, "Exploration Earth: Project Mission Ocean."

Rivers, Robert; education – Calumet campus, from Lakeshore Alliance for Student Success Inc., \$13,241, "LASS Agreement – Request for Additional Funds."

Rockman, Bert; political science, from Ross Graduate Fellowship/Assistantship, \$17,185, "Fellowship."

Roy, Kaushik; electrical & computer engineering, from Nanoelectronics Research Corporation, \$150,000, "Exploration of Novel ASPL from Device."

Roy, Kaushik; electrical & computer engineering, from University of California – Berkeley, \$12,000, "Collaborative Research Design, Verification, and Test of Integrated Gigascale System — the Gigascale Systems Research Center."

Rud, A G; educational studies, from Winifred B. Bilsland Endowment, \$18,935, "Fellowship."

Rundell, Ann E; biomedical engineering, from American Heart Association, \$143,000, "Evaluating the Efficacy of Rhythmic Abdominal Compression CPR."

Sa Barreto, Antonio C; mathematics, from National Science Foundation, \$96,386, "Scattering Theory on Manifolds."

Sands, Timothy D and Moon, Robert J; materials engineering/Birck Nanotechnology Center, from U.S. Forest Service, \$52,250, "Research on Nanotechnology Related to Wood and Wood-Based Materials." (a Discovery Park award — Birck Nanotechnology Center)

Santagata, Maria Caterina; Bobet, Antonio; Johnston, Cliff T and Sinfield, Joseph V; civil engineering, agronomy, from National Science Foundation, \$179,997, "Engineering the Pore Fluid of Sands with Highly Plastic Nano-Particles for Liquefaction Prevention."

Savran, Cagri A; mechanical engineering/Birck Nanotechnology Center, from National Science Foundation, \$270,000, "Hybrid Bionanomechanical Systems for Single Molecule Detection." (a Discovery Park award — Birck Nanotechnology Center)

Schendel, Dan E; department of management, from Strategic Management Society, \$2,222, "Strategic Management Society."

Schneider, Steven P; aeronautical & astronautical engineering, from American Society for Engineering Education, \$33,773, "NDSEG Fellowship."

Schulz, Burkhard and Irudayaraj, Joseph M; horticulture & landscape architecture, agricultural & biological engineering, from National Science Foundation, \$299,811, "Quantitative Analysis of Alternative Splicing (AS) in Plants Using Surface Enhanced Raman Spectroscopy (SERS)."

Shah, Kavita; chemistry, from University of Central Florida, \$7,895, "Chemical Genetics of Plasmodium Kinases: Subcontract Modification 2."

Shalae, Vladimir M; electrical & computer engineering/Birck Nanotechnology Center, from University of Central Florida, \$60,833, "Field-Enhancing Plasmonic Nanomaterials – Amendment 5." (a Discovery Park award — Birck Nanotechnology Center)

Sheehan, Amy H; pharmacy practice, from Eli Lilly and Company, \$1,000, "Joint Academic/FDA/Industry Fellowship Program in Pharmaceutical Drug Development."

Shen, Jie; mathematics, from National Science Foundation, \$104,158, "Fast Spectral-Galerkin Methods and Their Applications."

Shepson, Paul B; chemistry, from National Science Foundation, \$44,676, "The Collaborative O-Buoy Project: Deployment of a Network of Arctic Ocean Chemical Sensors for the IPY and Beyond."

Shepson, Paul B; chemistry, from National Science Foundation, \$74,148, "IPY: Halogen Chemistry and Ocean-Atmosphere-Sea Ice-Snowpack (OASIS) Chemical Exchange During IPY."

Shepson, Paul B; chemistry, from National Science Foundation, \$61,148, "Supplement to: A Multiphase Study of Nature, Sources, and Fate of Atmospheric Organic Nitrogen."

Shih, Tom I; aeronautical & astronautical engineering, from American Society for Engineering Education, \$32,023, "NDSEG Fellowship."

Shin, Yung C and Jamieson, Leah H; mechanical engineering, College of Engineering Administration Engineering Experiment, from National Science Foundation, \$599,995, "Partnership for Innovations for Laser-Based Manufacturing and Material Processing."

Shipsey, Ian P; physics, from Ann R Eberle, \$1,000, "High Energy Physics Project."

Simpson, Garth J; Hockerman, Gregory H and Mao, Chengde; chemistry, medicinal chemistry & molecular pharmacology, from National Science Foundation, \$421,528, "Development of a Dielectrophoretic Force Scanning Microscope for Non-Contact Biological Imaging."

Sinfield, Joseph V; civil engineering, from National Science Foundation, \$151,308, "Geoenvironmental Influences on Raman Spectroscopic Monitoring of Chlorinated Solvents."

Slamovich, Elliott B; materials engineering, from U.S. Department of Education, \$130,656, "Processing of Micro- and Nano-structured Materials – Mod 3."

Smith, Alan L; health & kinesiology, from Lafayette School Corporation, \$87,393, "Making PALS (Physically Active Lafayette Students) through Partnerships – Amendment 1."

Smith, Mjt; Graduate School Administration, from Vietnam Education Foundation, \$3,000, "Vietnam Education Foundation Fellowship."

Smith, Mjt; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, "Fellowship."

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, "Fellowship."

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, "Fellowship."

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, "Fellowship."

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Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Lynn Interdisciplinary Graduate Fellowship, \$16,750, “Fellowship.”

Smith, MJT; Graduate School Administration, from Vietnam Education Foundation, \$5,000, “Vietnam Education Foundation Fellowship.”

Smith, Richard S; food science, from Monogram Comfort Foods, LLC, \$5,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Kalsec Inc., \$1,500, “Food Science Research.”

Smith, Richard S; food science, from Monogram Meat Snacks, \$3,000, “Sensory Evaluation Research.”

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

Snow, Lowell D; Technical Assistance Program, from Indiana Economic Development Corporation, \$279,703, “Manufacturing Extension Partnership FY08-09 – Amendment 11.”

Son, Steven F; mechanical engineering, from IllinoisRocstar LLC, \$200,000, “Novel Alternative Energetic Propellants for Space Propulsion.”

Song, Xiaohui C; Rosen Center for Advanced Computing, from National Science Foundation, \$250,000, “INTEROP: A Community-Based Drought Information Network for Multidisciplinary Applications – Amendment 1.”

Song, Xiaohui C; Rosen Center for Advanced Computing, from National Science Foundation, \$453,572, “Science: Teragrid Resource Partners – Amendment 9.”

Spafford, Eugene H; CERIAS, from Lockheed Martin Corp., \$100,000, “Emerging Research in Responding to Cyber Attacks.”

Stanciu, Lia A; materials engineering, from PHS-NIH National Institute on Neurological Disorders & Stroke, \$158,105, “Metal-Induced Structural Transformations During Alpha-Synuclein Aggregation.”

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

Strobel, Johannes and **Hua, Inez**; engineering education, environmental & ecological engineering, from National Science Foundation, \$149,998, “Engineering Students Attitudes and Threshold Concepts Towards Sustainability and Engineering as Environmental Career.”

Suitor, J Jill; sociology, from PHS-NIH National Institute on Aging, \$433,444, “Parent Adult-Child Relations: Within Family Differences.”

Taylor, Lynne S; industrial & physical pharmacy, from Pharmaceutical Research & Manufacturers of America Foundation Inc., \$20,000, “Crystallization Inhibition of Supersaturated Solutions.”

Thomas, Volker K; child development & family studies, from Lafayette Community Development Department, \$24,251, “Weed and Seed Downtown Lafayette Community Involving Families and Schools Together (FAST).”

Thomas, Volker K; child development & family studies, from Lafayette Community Development Department, \$2,000, “Weed and Seed Downtown Lafayette Community with Shelter Plus Care.”

Trapp, Robert J; **Baldwin, Michael E**; **Dif-
fenbaugh, Noah S** and **Gluhovsky, Alexan-
der**; earth & atmospheric sciences/Purdue Climate Change Research Center, from National Science Foundation, \$202,467, “The Response of Convective Precipitating Storms to Anthropogenically Enhanced Global Radiative – Amendment 1.” (a Discovery Park award — Purdue Climate Change Research Center)

Trice, Rodney W and **Youngblood, Jeffrey P**; materials engineering, from National Science Foundation, \$41,267, “Design and Manufacture of Ultra-High Temperature Ceramics with Oriented Strengthening and Toughening Phases.”

Tuinstra, Mitchell R; agronomy, from Ross Graduate Fellowship/Assistantship, \$16,750, “Fellowship.”

Turco, Ronald F; agronomy, from Wabash River Enhancement Corp, \$6,000, “Water Quality.”

Tyner, Wallace E; agricultural economics, from Congressional Research Service, \$80,000, “Cellulosic Biofuels Technology, Market, and Policy Assessment.”

Varma, Amit H; civil engineering, from Westinghouse Electric Corporation, \$76,250, “PO 4500307157 Change Notice #1.”

Varma, Amit H; civil engineering, from Indiana Department of Transportation, \$55,000, “Feasibility Evaluation of the Standardization of Bridges and Bridge Elements in Indiana, SPR-3322.”

Varma, Arvind; chemical engineering, from U.S. Department of Defense, \$32,023, “National Defense & Engineering Grad Fellowship.”

Vaughn, Kevin J; anthropology, from National Geographic Society, \$20,500, “Ancient Mining and Metallurgy on the South Coast of Peru.”

Vorst, James J; agronomy, from American Society of Agronomy, \$5,250, “American Society of Agronomy.”

Vorst, James J; agronomy, from American Society of Agronomy, \$22,325, “Technical Management of the International Certified Crop Advisers Program.”

Vyn, Tony J; agronomy, from CREA, \$800, “Agricultural Cropping Systems.”

Waddell, Peter J; **Anderson, John N** and **Barton, Erik S**; biological sciences, from PHS-NIH National Library of Medicine, \$69,066, “Comparative Bioinformatics and TP53 Expression.”

Walther, Hans U; mathematics, from National Science Foundation, \$153,000, “Cohomology, D-Modules and Singularities.”

Wang, Nien-Hwa L and **Franses, Elias I**; chemical engineering, from National Science Foundation, \$350,000, “Experimental Probing and Molecular Modeling of Key Sorbent-Solute-Solvent Interactions in Chiral Separations.”

Weatherman, Kara D; industrial & physical pharmacy, from IU School of Medicine, \$2,000, “Teaching Nuclear Medicine Technology Course at IU.”

Weaver, Connie M; foods & nutrition, from Mount Sinai School of Medicine, \$85,528, “Protective Roles of Grape-Derived Polyphenols in Alzheimers Disease 0254-7612-4609 – Amendment 1.”

Weaver, Connie M; foods & nutrition, from Delavau LLC, \$6,000, “Corporate Affiliates Fund.”

Weaver, Connie M; foods & nutrition, from Mount Sinai School of Medicine, \$1,666, “Protective Roles of Grape-Derived Polyphenols in Alzheimers Disease 0254-7602-4609 – Amendment 1.”

Weaver, Connie M and McCabe, George P; foods & nutrition, College of Science – administration, from PHS-NIH National Institute of Child Health & Human Development, \$602,819, “Calcium Metabolism in Mexican American Adolescents.”

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

Weiss, William J; Olek, Jan and Tao, Bernard Y; civil engineering, agricultural & biological engineering, from Federal Highway Administration, \$525,000, “Greatly Increased Use of Fly Ash in Hydraulic Cement Concrete (HCC) for Pavement Layers and Transportation Structures.”

Wendt, Oliver and Snow, David P; educational studies, speech, language & hearing sciences, from Kinley Trust, \$20,000, “The Use of Speech Generating Devices (SGDs) in Learning Graphic Symbol Combinations: Evaluating Matrix Strategy Vs. Mand-Model Procedures.”

Wild, Robert E; chemistry, from Eli Lilly and Company, \$5,000, “Healthcare Professional Education.”

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

Wirth, Mary J; chemistry, from National Institutes of Health, \$196,575, “Sensitive Biomarker Detection Using Organized Nanoparticles in Multiwell Plates.”

Xi, Bowei; statistics, from National Science Foundation, \$54,900, “Statistical Models of Internet Traffic and Queueing Analysis.”

Xu, Dongyan; computer science, from National Science Foundation, \$255,000, “Collaborative Research: II-New: OpenVMI: a Software Instrument for Virtual Machine Introspection.”

Ye, Peide; electrical & computer engineering, from Semiconductor Research Corporation, \$40,000, “Gasb an Unexplored III-V Channel Material.”

Yu, Jiu-Kang; mathematics, from National Science Foundation, \$121,834, “FRG: Collaborative Research: Characters, Liftings, and Types: Investigations in P-Adic Representation Theory.”

Zhang, Tonglin; statistics, from National Science Foundation, \$41,786, “Collaborative Research: Static and Dynamic Parameterizations of Spatially Clustered Data – Amendment 2.”

Zhao, Fu and Ramani, Karthik; mechanical engineering, from National Science Foundation, \$150,000, “Enable Project-Based Learning of Ecodesign: Method Development and Curriculum Reform.”

Zhou, Daoguo; biological sciences, from PHS-NIH National Institute of Allergy & Infectious Diseases, \$98,640, “Supplement to Host Actin Cytoskeleton Rearrangements Induced by Salmonella.”

Zhuang, Qianlai; agronomy, from National Science Foundation, \$202,918, “Collaborative Research: Impacts of Climate Seasonality on Carbon Accumulation and Methane Emissions of Alaskan Ecosystems During the Holocene Thermal.”

Zwier, Timothy S; chemistry, from National Science Foundation, \$535,000, “Single Conformation Spectroscopy and Isomerization Dynamics of Synthetic Foldamers.” □

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