

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

June 2010

Abbott, Angela R; consumer & family sciences, from Tina Mahern Events LLC, \$1,500, "Poverty Simulation Voluntary Support."

Abraham, John; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, "Direct Numerical Simulations of Turbulent Stratified-Charge Combustion."

Abramowitz, Harvey; mechanical engineering-Calumet campus, from ISS Foundation, \$1,000, "Ferrous Metallurgy Grant Program."

Abu-Omar, Mahdi M; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, "Catalyst Design by Discovery Information."

Abu-Omar, Mahdi M; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, "Center for the Catalytic Conversion of Biomass to Bioenergy (C3Bio)."

Adams, Douglas E; mechanical engineering, from CACI International Inc., \$317,000, "Development and Testing of Innovative Health Management Tools for Damage Detection, Evaluation, and Repair of the CH-53K Composite Rotor Blades & Structures."

Adams, Douglas E; mechanical engineering, from CACI International Inc., \$100,000, "Subcontract Agreement to Development and Testing of Innovative Health Management Tools for Damage Detection, Evaluation, and Repair of the CH-53K Composite Rotor Blades & Structures."

Adams, Douglas E; mechanical engineering, from Advanced Technology, Inc., \$10,500, "Technical Support-Composite Airframe Damage Detection and Evaluation."

Agnew, Christopher R; psychological science, from Purdue Research Foundation: XR Grant, \$16,795, "In the Wake of Discrimination: Romantic Relationship Commitment, Self-Disclosure, and Intimacy."

Agrawal, Rakesh; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, "IGERT: the Solar Economy IGERT (SEIGERT)."

Agrawal, Rakesh; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, "IGERT: the Solar Economy IGERT (SEIGERT)."

Ahrens, Susan L; nursing-Fort Wayne campus, from PHS-HRSA National Center for Health Services Res, \$4,653, "Advanced Practice Nurses Reaching Underserved Health Needs in Northeastern Indiana."

Alam, Muhammad A; electrical & computer engineering, from Applied Materials, \$90,000, "Device Reliability Research."

Alge, Bradley J; management, from Purdue Research Foundation: XR Grant, \$16,795, "What About Leader Empowerment? The Drivers and Consequences of Empowered Leadership."

Allain, Jean P; nuclear engineering, from U.S. Department of Energy, \$130,367, "An *In Situ* Materials Analysis Particle Probe (MAPP) Diagnostic to Study Particle Density Control and Hydrogenic Fuel, Modification 1."

Anderson, Donald J; hospitality & tourism, from IIR Middle East, \$5,000, "Executive Program in Destination Management."

Anderson, John N; biological sciences, from Purdue Research Foundation: XR Grant, \$16,795, "Effects of DNA Methylation on Nucleosome Positioning in Mammalian Cells."

Anderson, William E; aeronautical & astronautical engineering, from Metrolaser, Inc., \$25,000, "Hydroxyl Tagging Velocimetry for Rocket Plumes, Phase II-Rocket Engine Testing."

Andrisani, Ourania M; basic medical science, from Winifred B. Bilsland Endowment, \$23,673, "Liang, Hongzi."

Appenzeller, Joerg and Yang, Chen; electrical & computer engineering, chemistry, from Army Research Office, \$70,000, "Tunneling Devices from III-V Nanowire Heterostructures for High Frequency, Low-Powered RF Applications." (a Discovery Park award — Birck Nanotechnology Center)

Appenzeller, Joerg; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, "A Study on the Formation of Contacts for Graphene Devices."

Atallah, Mikhail J; computer science, from National Science Foundation, \$87,553, "TC:Small: Collaborative Research Privacy-Constrained Searching, Amendment 1."

Atkinson, Dwight S; English, from Purdue University, \$8,000, "English in Paradise? Low-Caste, First-Generation Students in an Elite English-Medium College in India."

Balakrishnan, Venkataramanan; electrical & computer engineering, from Chappelle, \$19,173, "Lee, Dennis, J."

Barton, Erik S; biological sciences, from Purdue University, \$8,000, "Functional Characterization of Interferon Stimulated Genes."

Beckerman, Janna L; botany & plant pathology, from National Institute of Food & Agriculture, \$90,541, "Rapid Identification of Fungicide Resistance and the Development of Action Thresholds to Prevent Fungicide Failure Against the Apple Scab Pathogen, *Venturia Inaequalis*."

Ben-Amotz, Dor; chemistry, from National Science Foundation, \$1,000, "2009 NSF Graduate Research Fellowship for Kathryn (Rebecca) Fega."

Bentley, Robin T; Adamec, Jiri; Clase, Kari L and Rickus, Jenna L; veterinary clinical science, Bindley Bioscience Center, computer information technology-Calumet Campus, agricultural & biological engineering, from Showalter Trust, \$72,000, "Canine Glioma Cancer Stem Cells as a New Translational Cancer Model."

Bertino, Elisa; CERIAS, from University of Texas at Dallas, \$50,000, "Secure Sensor Semantic Web and Information Fusion Applications."

Bertino, Elisa and Martino, Lorenzo D; CERIAS, computer & information technology, from University of Texas at Dallas, \$100,000, "Secure Semantic Information Grid for NCES and Border Security Applications."

Birch, Deborah I; student services-North Central campus, from U.S. Department of Education, \$304,624, "Talent Search Project, Amendment 2."

Blaisdell, Gregory A; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$42,166, "Computations of Supersonic Jet Plumes and Impingement of Inclined Surfaces, Supplement 1."

Block, Michelle E; nursing-Calumet Campus, from Purdue University, \$8,000, “Risk Perception in Cardiovascular Disease.”

Bolton, J S; mechanical engineering, from Langley Research Center, \$51,500, “Material Characterization of the Acoustical Properties of Polyimide Foams, Supplement 4.”

Bortoletto, Daniela; physics, from University of Notre Dame, \$4,000, “Quarknet at Purdue University.”

Bowen, Gabriel J; earth & atmospheric sciences, from National Geospatial-Intelligence Agency, \$229,991, “Prediction and Validation of Water Supply Sensitivity through GIS-Based Integration of Environmental, Demographic, and Stable Isotope Data.”

Bowen, Gabriel J; Jafvert, Chad T and Kennedy, Casey D; earth & atmospheric sciences, civil engineering, from Showalter Trust, \$75,000, “Hydrological Controls on Nitrogen Dynamics in Artificially Drained Agricultural Watersheds.”

Bowman, Keith J; materials engineering, from Chappelle, \$19,173, “Busch, Jonathan D.”

Briggs, Scott D; biochemistry, from Purdue University Special Initiative Program, \$20,747, “South, Paul.”

Brusca-Vega, Rita; graduate studies in education-Calumet Campus, from U.S. Department of Education, \$192,675, “Training Personnel in Minority Institutions to Serve Infants, Toddlers, and Children with Disabilities, Amendment 1.”

Buck, Charles R; Bindley Bioscience Center, from Ivy Technology State College, \$4,975, “Research Experience for Ivy Technology Faculty.” (a Discovery Park award — Bindley Bioscience Center)

Buckius, Richard O; Vice President for Research, from Purdue University, \$8,000, “Stat3 and Mitochondrial Activity in Bone Metabolism.”

Buckius, Richard O; Vice President for Research, from Purdue University, \$8,000, “Role of Type VI Collagen in the Pathogenesis of Emphysema.”

Buczowski, Grzegorz A; entomology, from National Institute of Food & Agriculture, \$71,897, “Not Letting the Bed Bugs Bite: Evaluation of a Novel IPM Approach for Bed Bug Management in Public Housing.”

Cai, Liping A; consumer & family sciences, from South China University of Technology, \$19,958, “China Center Account.”

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

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

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

Caldwell, Barrett S; industrial engineering, from University of Southern Indiana, \$1,000, “INSGC Affiliate Dues - University of Southern Indiana.”

Carlson, Erica; physics, from National Science Foundation, \$80,000, “Using Disorder to Detect Local Order: Noise and Nonequilibrium Effects of Stripes with Quenched Disorder, Amendment 1.”

Carpita, Nicholas C; Brouder, Sylvie M; Buckmaster, Dennis; Ejeta, Gebisa; Ileleji, Klein; Mosier, Nathan S; Volenec, Jeffrey J and Weil, Clifford F; botany & plant pathology, agronomy, agricultural & biological engineering, from National Institute of Food & Agriculture, \$174,966, “Midwest Center for Bioenergy Grasses.”

Carpita, Nicholas C; botany & plant pathology, from National Science Foundation, \$15,000, “Travel to Pan-American Congress on Plants and Bioenergy-Sao Pedro, Brasil.”

Carroll, Natalie J and McKee, Renee K; youth development & agricultural education, from National 4-H Council, \$50,000, “2010 Toyota 4-H20 Community Project - Indiana Project.”

Caruthers, James M; chemical engineering, from NAVSEA/NSWC Crane, \$49,999, “Cooperative Interaction Between Purdue and Crane in Energy Storage Systems.” (a Discovery Park award — Institute for Defense Innovation)

Casteel, Shaun N; Wise, Kiersten A; Johnson, William G and Krupke, Christian H; agronomy, botany & plant pathology, entomology, from Indiana Soybean Alliance, \$99,294, “Identification of Factors Limiting Soybean Yields and On-Farm Verification of BMPs.”

Caviglia, Giulio; mathematics, from Purdue University, \$8,000, “Classification of Hilbert Functions: a Unifying Approach to Three Open Conjectures in Commutative Algebra.”

Chakrabarti, Raj; chemical engineering, from Purdue University, \$8,000, “Chemical PCR: a Technique that Can Dramatically Expand the Scope of PCR for Cancer Diagnostics.”

Chakravarty, Sugato; consumer science & retail, from Winifred B. Bilsland Endowment, \$9,587, “Fan, Xioameng.”

Chakravarty, Sugato; consumer science & retail, from Winifred B. Bilsland Endowment, \$9,587, “Ma, Yongjin.”

Chakravarty, Sugato; consumer science & retail, from Purdue University Initiative Program, \$20,673, “Rathod, Sandra.”

Chang, Fen-Lei F; medical education-Fort Wayne campus, from Indiana University, \$70,000, “2009-2010 Medical Education Center Budget (Ft. Wayne Center for Medical Education), I.U. School of Medicine.”

Chappell, William J; electrical & computer engineering, from University of Oklahoma, \$56,905, “Weather Specific Digital Array Radar Test Bed Panel.”

Chen, Bin; electrical & computer engineering-Calumet Campus, from Purdue University, \$8,000, “White Matter Volume Quantification for Human Brain Disease Diagnosis.”

Chen, Chao; engineering -Fort Wayne campus, from Purdue University, \$8,000, “Improving the Performance of IEEE 802.15.4 Networks Under Interface.”

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

Cheng, Ji-Xin; biomedical engineering, from Loreal USA, \$50,000, “CARS, SRS, and Compound Raman Spectroscopy on Hair.”

Choi, Kyoung-Shin; chemistry, from Purdue American Chemical Society, \$250, “Summer 2009 Demo Workshop Project.”

Choi, Kyoung-Shin; chemistry, from U.S. Department of Energy, \$140,000, “Construction of High-Performance, Low-Cost Photoelectrodes with Controlled Polycrystalline Architectures, Modification 5.”

Choi, Kyoung-Shin; chemistry, from Purdue American Chemical Society, \$2,750, “Summer 2009 Demo Workshop Project.”

Clemens, James C; biochemistry, from Purdue University, \$8,000, “Dscam/DCC Mediated Control of Neuron Survival.”

Cleveland, William S; statistics, from Revolution Computing Inc., \$8,538, “Voluntary Support.”

Colby, David A and Rochet, Jean-Christophe; medicinal chemistry & molecular pharmacology, from Showalter Trust, \$75,000, “Natural Products and Structurally-Related Derivatives for the Treatment of Parkinsons Disease.”

Collins, Timothy F and Ebert, David S; discovery park administration, electrical & computer engineering, from U.S. Department of Homeland Security, \$50,000, “Justice Institute of British Columbia and VACCINE Collaborative Workshops.” (a Discovery Park award — Discovery Park Administration)

Colodi, Paul; animal sciences, from PHS-NIH National Institute of General Medical Science, \$167,660, “Zebrafish ES Cell Lines for Targeted Mutagenesis.”

Cooper, Stephen; computer graphics technology, from National Science Foundation, \$50,636, “Collaborative Research: Alice+=Java.”

Cooper, Stephen and Dark, Melissa J; computer graphics technology, technology administration, from National Science Foundation, \$32,200, “ITiC-SE 2010 Information Assurance Working Group.”

Cordes, Samuel M; college of agriculture-administration, from Brevard Workforce, \$4,800, “Brevard Workforce- Strategic Doing Forum, Amendment 1.”

Cordes, Samuel M; Office of Engagement, from Indiana Economic Development Corporation, \$33,066, “Southeastern Small Business Development Center CY 2010-\$33,065.63 Increase for 2009 Carry Forward.”

Cordes, Samuel M; agriculture administration, from Brevard Workforce, \$5,000, “Brevard Workforce- Strategic Doing Forum.”

Corless, Martin; aeronautical & astronautical engineering, from Ford Motor Company, \$40,000, “An Investigation of Vehicle Dynamics and Stability for Next Generation Passive Safety Systems Activation and Control.”

Corum, Christine L; mechanical engineering technology, from R.L. Roudebush Va Medical Center, \$13,410, “Summer 2010 IPA Agreement.”

Crossley, William A; aeronautical & astronautical engineering, from National Aeronautics and Space Administration, \$30,000, “I Tetzloff 10/11- Decomposition Approach for Aircraft Allocation to Assess Fleet-Level Metrics.”

Curtis, Susan; American studies, from Purdue University Special Initiative Program, \$20,673, “Garcia, Shivon N.”

Cushman, John H; mathematics, from National Science Foundation, \$12,500, “REU Supplement: the Hydrology of Desiccation and Cracking with Application to Desertification.”

Dattilo, Benjamin F; geosciences-Fort Wayne campus, from American Chemical Society, \$50,000, “Testing Depositional Models Across an Upper Ordovician Facies Transition in Kentucky, Ohio, and Indiana.”

DeBoer, Lawrence P; agricultural economics, from Indiana Legislative Services Agency, \$37,616, “Continuing Work with the Indiana Legislative Service Agency.”

Delgass, W N; chemical engineering, from U.S. Department of Energy, \$780,000, “Catalyst Design by Discovery Informatics, Amendment 8.”

Depew, Elizabeth H; purchasing-North Central campus, from Indiana Department of Transportation, \$74,800, “CMAQ Grant Agreement for Equipment Procurement: EDS#A249-10-320518; Des 0901975, 0901976,0901977.”

DeWitt, William E; electrical & computer engineering technology, from Occupational Safety & Health Administration, \$4,149, “OSHA 1230 Accident Investigation Course.”

Do, Phuong T; behavioral sciences-Calumet campus, from Purdue University, \$8,000, “The Influence of Domain-Specific Knowledge, Multimodal Visualizations, & Memory Interference on Learning Acquisition.”

Dotterer, Aryn M; child development & family studies, from Kinley Trust, \$20,000, “Examining Sociocultural Factors and School Transitions During Early Adolescence.”

Doucette, Suzanne C; chemistry, from Purdue University, \$8,000, “New Uranium Alkyl Complexes for Small Molecule Activation and Catalysis.”

Dukes, Jeffrey S; forestry & natural resources, from Pennsylvania State University, \$85,000, “The Boston-Area Climate Experiment: a Gradient-Based Approach for Characterizing Ecosystem Responses to Warming and Precipitation Change.”

Dunford, Benjamin B; management, from Purdue University, \$8,000, “The Impact of Burnout Contagion on Employee and Team Performance.”

Dunning, John B; forestry & natural resources, from U.S. Forest Service, \$21,122, “Breeding Bird Surveys at Hoosier National Forest.”

Dunning, John B; forestry & natural resources, from Foreign Affairs & INTNL Trade CA, \$7,961, “FNR 460 Canadian 2010 Student Aid.”

Durbin, Stephen M; physics, from U.S. Department of Energy, \$146,696, “Picosecond X-Ray Detector for Synchrotrons.”

Dydak, Ulrike; health sciences, from Indiana University, \$54,577, “Support for Dr. Dydak at IU Department of Radiology.”

Dyke, Shirley J; civil engineering, from National Science Foundation, \$30,000, “Workshop: International Workshop on Bio-Inspired Methods and Large Scale Structural Monitoring.”

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$436,787, “Symbolology Standardization Support.” (a Discovery Park award — Discovery Park Administration)

Ebert, David S; Collins, Timothy F; Boutin, Mireille; Cleveland, William S; Delp, Edward J and Elmqvist, Niklas E; electrical & computer engineering, discovery park administration,

statistics, from U.S. Department of Homeland Security, \$1,684,999, “VACCINE: Visual Analytics for Command, Control, and Interoperability Environments.” (a Discovery Park award — Discovery Park Administration)

Ebert, David S; electrical & computer engineering, from U.S. Department of Homeland Security, \$133,310, “Department of Homeland Security (DHS) Command, Control and Interoperability (CCI) Division Technical Support.” (a Discovery Park award — Discovery Park Administration)

Ebner, Paul D; animal sciences, from Procter & Gamble Company, \$301,916, “Characterization of Anti-Salmonella Bacteriophages.”

Edwards, Nancy E; college of consumer & family sciences, from PHS-HRSA-BHM Division of Nursing, \$30,341, “Advanced Education Nursing Traineeships.”

Fanjoy, Richard O; aviation technology, from Winifred B. Bilsland Endowment, \$19,173, “Harriman, Stanley L.”

Farnsworth, Richard L; Einstein, Mark E; McCormick, Robert A; Quagrainie, Kwamena K and Thompson, Leslie E; Illinois-Indiana Sea Grant program, animal sciences, field extension educators, agricultural economics, biological sciences-Calumet campus, from University of Illinois at Champaign-Urbana, \$341,392, “2010-2013 Illinois-Indiana Sea Grant College Program Omnibus.”

Ferraro, Kenneth F; sociology, from Gerontological Society of America, \$12,950, “Journal of Gerontology: Social Sciences Year 5.”

Fleming, Damian J; English & linguistics - Fort Wayne campus, from Purdue University, \$8,000, “Hebrew Matters: Jesus Name and the Power of the Vernacular in Anglo-Saxon England.”

Florax, Raymond; agricultural economics, from Winifred B. Bilsland Endowment, \$8,947, “Delbecq, Benoit A.”

Franses, Elias I and Corti, David S; chemical engineering, from Hewlett Packard, \$96,400, “Aqueous Dispersion Stability of Printing Inks and Ink-Like Modal Colloidal Dispersions.”

Freeman, Jennifer L; health sciences, from Showalter Trust, \$75,000, “Alteration of Reelin —a Nerve Growth Regulatory Gene — by Low Dose Lead (Pb) Exposure: a Novel Mechanism of the Fetal Origin of Neurological Disorders.”

Freeman, Jennifer L and Sepulveda, Maria S; health sciences, forestry & natural resources, from PHS-CDC National Center for Environmental Health, \$441,124, “Molecular Biomarkers of Exposure to Endocrine Disrupting Herbicides.”

Freeman, Lynetta and Ko, Jeff C; veterinary clinical science, from Indiana University, \$23,740, “Feasibility Evaluation of Propofol Sedation for Bilateral NOTES Oophorectomy in Dogs.”

Freeman, Lynetta; veterinary clinical science, from Collie Health Foundation, \$10,478, “Clinical Evaluation of NOTES Gastropexy as a Prophylactic Procedure for Prevention of Gastric Dilatation and Volvulus in Collie Dogs.”

French, Richard M; mechanical engineering technology, from Purdue University, \$8,000, “Low Cost Wind Technology.”

Fuchs, Philip L; chemistry, from John Wiley & Sons Limited England, \$3,000, “E-Encyclopedia of Reagents for Organic Synthesis.”

Garcia, R Edwin and Klimeck, Gerhard; materials engineering, electrical & computer engineering, from Arizona State University, \$17,000, “Modeling Material Degradation in GaN HEMT Devices.”

Garcia, R Edwin; materials engineering, from Oak Ridge National Laboratory, \$3,063, “Modeling Nanometer-Scale Electrochemical Intercalation and Diffusion in Rechargeable Battery Materials.”

Garfinkel, Arthur F; physics, from Argonne National Laboratory, \$3,500, “Graduate Student Services: Laura Boon Req# F9-348027.”

Garimella, Suresh V; mechanical engineering, from Sun Microsystems, Inc., \$30,000, “CTRC Membership.”

Garimella, Suresh V; mechanical engineering, from Toyota Motor Manufacturing Inc., \$75,000, “Advanced Two-Phase Cooling Technology for High Heat Flux Application.”

Garimella, Suresh V; mechanical engineering, from National Science Foundation, \$8,000, “NSF Industry/University Cooperative Research Center on Compact, High-Performance Cooling Technologies Research-REU.”

Garimella, Suresh V; mechanical engineering, from EPRI, \$13,000, “Preliminary Design and Thermal Modeling of Solar Integrated Multi-Cell Thermocline Storage Concept.”

Gentry, Marcia L; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “Cross-Cultural Validation of Translated My Class Activities (MCA).”

Gerard, Peggy S; nursing-Calumet campus, from PHS-HRSA National Center for Health Services Research, \$32,730, “10/11 Professional Nurse Traineeship (Submission Phase 1/2).”

Gerber, Corey K; agronomy, from Pioneer Hi-Bred International, Inc., \$6,500, “DTC Summer Workshop-Pioneer Hi-Bred International, Inc.”

Ghosh, Arun K; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Total Synthesis of Viridifungin A.”

Ghosh, Jayanta K; statistics, from Purdue Research Foundation: XR Grant, \$16,795, “Bayesian Model Selection and Bayes Factor Model and Semi Parametric Additive Isotonic Median Regression.”

Gibbs, Richard A; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation: XR Grant, \$16,795, “A Metabolomic Method for the Quantitation of Protein Prenylation.”

Gillespie, Robert B; biology-Fort Wayne campus, from Indiana Academy of Science, \$2,500, “Characterization of Nearshore Fish Communities and Habitat in the Littoral Zone of Indiana Glacial Lakes with Respect To Shoreline Development.”

Ginzel, Matthew D and Sadof, Clifford S; entomology, from National Institute of Food & Agriculture, \$70,479, “Identifying Sentinels for Delimiting Invasive Borers in Urban Forests.”

Ginzel, Matthew D and Sadof, Clifford S; entomology, from National Institute of Food & Agriculture, \$92,557, “Identifying Sentinels for Delimiting Invasive Borers in Urban Forests.”

Goffman, Lisa A; Smith, Anne and Zelaznik, Howard N; speech, language & hearing sciences, health & kinesiology, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$325,472, “Language-Motor Relations in Childrens Speech Production.”

Gotham, Douglas J; Energy Center, from Indiana Office of Energy Development, \$97,474, “A Proposal to Develop a Statewide Database of Energy Efficiency Efforts in Indiana.” (a Discovery Park award — Energy Center)

Grant, Richard H; agronomy, from Colorado State University, \$2,500, “Climatological Monitoring of Ultraviolet Radiation.”

Gregg, Angela R; Diversity & Multicultural Affairs - Fort Wayne campus, from U.S. Department of Education, \$250,000, “IPFW Upward Bound Program Expansion to Generate Success Beyond High School, Amendment 5.”

Gregg, Angela R; Diversity & Multicultural Affairs - Fort Wayne campus, from U.S. Department of Education, \$250,000, “IPFW Upward Bound Program Expansion to Generate Success Beyond High School, Amendment 8.”

Gurney, Kevin R; earth & atmospheric sciences, from Northern Arizona University, \$133,979, “Exploration of the Mechanistic Relationship Between Improved Regional North American Inverse Carbon Fluxes and Climate Variability/Trends, Amendment 3.”

Haase, Jennifer S; earth & atmospheric sciences, from Schlumberger Foundation, \$29,143, “Faculty for the Future Program Fellowship.”

Haddad, Jeffrey M; health & kinesiology, from Purdue Research Foundation: XR Grant, \$16,795, “The Integration Between Balance, Cognition and Manual Control in Aged Populations.”

Hall, Mark C; biochemistry, from Purdue University, \$8,000, “Sensitive and Quantitative Detection of Protein Modifications in Complex Biological Samples Using SRM Mass Spectrometry.”

Hambrusch, Susanne E and Yadav, Aman; computer science, educational studies, from National Science Foundation, \$14,500, “CPATH-2: Computer Science Pathways for Educators.”

Handy, Rodney G and Hutzel, William J; mechanical engineering technology, from Alcoa Inc., \$49,000, “The Development of a Sustainable Manufacturing Portal at ALCOA.”

Hanke, Steven A; accounting & finance - Fort Wayne campus, from Purdue University, \$8,000, “Perceived Employer Shifting Mechanisms and Their Impact on the Equitability of the Employer Payroll Tax Burden.”

Harding, Melvyn D; educational opportunities program - Calumet campus, from U.S. Department of Education, \$341,870, “10/11 Educational Talent Search Program.”

Harilal, Sivanandan and Hassanein, Ahmed; nuclear engineering, from National Nuclear Security Administration, \$842,880, “High-Sensitivity Laser-Ablation Inductively-Coupled-Plasma Time-of-Flight Mass-Spectrometry for Nuclear Material Detection.” (a Discovery Park award — Energy Center)

Harper, William A; health & kinesiology, from Purdue University F N Andrews Fellowship, \$0, “Cai,Fuwen (2)-Start 7/1/10.”

Harper, William A; health & kinesiology, from Purdue Doctoral Program, \$0, “Fialkowski, Marie, K (2)-Start 7/1/2010.”

Harris, Leonard; philosophy, from Purdue Research Foundation: XR Grant, \$16,795, “(Re) Membering Abstract Expressionism: Norman Lewis and the Art of Resistance.”

Harshvardhan; science-administration, from National Aeronautics and Space Administration, \$108,115, “Study of the Evolution and Transport of Biomass Burning Smoke Plumes in Varying Environmental Conditions with Numerical Modeling, Satellite and Field.”

Hassanein, Ahmed and Milasheuski, Henadzi V; nuclear engineering, from National Nuclear Security Administration, \$233,500, “Modeling of SNM Fission Signatures and Cosmic-Ray Induced Neutron Backgrounds.” (a Discovery Park award — Energy Center)

Hazbun, Tony R; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$248,085, “Integrated Genomewide Analysis of the Ipl 1 Kinase Signaling Network.”

Heber, Albert J; Grant, Richard H; Ni, Jiqin and Bogan, William W; agricultural & biological engineering, agronomy, from National Pork Board, \$108,677, “Evaluation and Analysis of NAEMS Pork Data.”

Heinzer, William J; mathematics, from Purdue Research Foundation: XR Grant, \$16,795, “Decomposition of Monomial Ideals and Blowup Models of Ideals.”

Heister, Stephen D; aeronautical & astronautical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “MURI Topic 19 Whitepaper: Spary & Combustion of Gelled Hypergolic Propellants.”

Hertel, Thomas W; agricultural economics, from U.S. Department of Energy, \$39,300, “GTAP Membership.”

Hertel, Thomas W; agricultural economics, from Environmental Protection Agency, \$58,975, “GTAP Membership.”

Hertel, Thomas W; agricultural economics, from Department for Business, Innovation & Skills, \$48,000, “A Global, Spatially-Explicit, Open-Source Data Base for Analysis of Agriculture, Forestry and the Environment.”

Hertel, Thomas W; agricultural economics, from Centre d’études Prospectives Et d’Informations Internationales, \$19,650, “GTAP Membership.”

Hibel, Jacob; sociology, from Kinley Trust, \$20,000, “Examining Contextual Influences on the Special Education Placement of Immigrant Children.”

Hibiki, Takashi; nuclear engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Development of Interfacial Area Transport Equation for 3-D Computational Fluid Dynamic Simulation.”

Hibiki, Takashi and Ishii, Mamoru; nuclear engineering, from Mitsubishi Heavy Industries Ltd., \$32,000, “Generic Study on Two-Phased Natural Circulation Flow Instability Due to Time-Lag Heat Transfer.”

Hibiki, Takashi; Ishii, Mamoru and Liu, Yang; nuclear engineering, from Mitsubishi Heavy Industries Ltd., \$54,000, “Study on Unsteady Horizontal Gas-Liquid Two-Phase Fluid Force in the Horizontal to Vertical Piping System.”

Hirleman, E D; mechanical engineering, from Chappelle, \$19,173, “Trembacki, Bradley L.”

Hogenesch, Harm; comparative pathobiology, from National Institutes of Health, \$115,677, “Institutional Research Training Grants (T32).”

Hollenbeck, Peter J; biological sciences, from PHS-NIH National Institute of Neurological Disorders and Stroke, \$326,577, “Control of Neural Organelle Transport.”

Hook, Tomas O and Bowen, Gabriel J; forestry & natural resources, earth & atmospheric sciences, from University of Illinois, \$67,049, “Constructing the Nearshore Lake Michigan Food Web Using Multiple Trophic Indicators.” (a Discovery Park award — Center for the Environment)

Howell, Kathleen; aeronautical & astronautical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Orbital Mechanics.”

Hu, Changdeng; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation: XR Grant, \$16,795, “Targeting Radiation Induced Neuroendocrine Differentiation as a Novel Approach in Prostate Cancer Therapeutics.”

Hu, Y Charlie; electrical & computer engineering, from Qatar University, \$349,825, “Wireless Mesh Networking: Experimental Testbed-Based Studies of Channel/Radio Access, Routing, and Network Resource Allocation.”

Hua, Inez and Harris, Michael T; civil engineering, college of engineering administration engineering experiment, from National Science Foundation, \$282,348, “REU Site: Tackling the Grand Challenges of Engineering.”

Hunt, Greg J; entomology, from Agricultural Research Service, \$12,500, “Sequencing Transcriptome of Fungal Honeybee Pathogen *Asconphaera Apis*.”

Hurt, R D; history, from Winifred B. Bilsland Endowment, \$19,173, “Smith, John M.”

Hurt, R D; history, from Winifred B. Bilsland Endowment, \$19,173, “Dermineur, Elsie M.”

Hutcheson, John S; Office of Engagement, from Muhlenberg Economic Enterprises, \$1,897, “Muhlenberg Economic Enterprises - Ed Morrison.”

Ileleji, Klein and Martin, Chad A; agricultural & biological engineering, from Indiana Office of Energy & Defense Development, \$30,000, “Purdue Extension Renewable Energy Program.”

Ivanisevic, Albena; biomedical engineering, from Purdue University Special Initiative Program, \$20,673, “Richards, David N.”

Ivantysynova, Monika; agricultural & biological engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Fluid Power ERC.”

Ivantysynova, Monika; agricultural & biological engineering, from Caterpillar Inc., \$763, “Displacement Controlled HEX Productivity/Controllability Study.”

Ivantysynova, Monika; agricultural & biological engineering, from Husco International, \$5,000, “Ivantysynova Multi-Gift Symposium.”

Jackson, Mark J; mechanical engineering technology, from BWEXT Y-12, LLC, \$25,000, “Modified Inserts for Improved Machinability.”

Jacobs, Douglass F; forestry & natural resources, from the American Chestnut Foundation, \$5,000, “Effects of Phytophthora Cinnamomi Rands on Nutrient Uptake and Water Relations of American Chestnut Seedlings Under Varying pH.”

Jagannathan, Suresh and Vitek, Jan; computer science, from National Science Foundation, \$556,300, “II-New: a Computational Infrastructure for Scalable Transactional Memory Abstractions in Managed Languages.”

Janes, David B; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Studies of Functional Top Contacts in Module-Semiconductor Devices.”

Jaramillo, Nathalia E; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “The Cultural Hybridization of Dine’ Students and Teachers Inside the Classroom: Examining Interactions with a Culturally Dine’ Base Curriculum in a Westernized School Structure.”

Jenkins, Michael A; forestry & natural resources, from U.S. Forest Service, \$100,000, “Carbon Sequestration in the Central Hardwood Region: What Are the Relative Contributions of Primary and Managed Secondary Forests?”

Jesiek, Brent K; engineering education, from Purdue Research Foundation: XR Grant, \$16,795, “Contextualizing the Engineering Core.”

Jiang, Qing; foods & nutrition, from Purdue Research Foundation: XR Grant, \$16,795, “Vitamin E Forms as Chemopreventive Agents for Colon Cancer.”

Jiang, Wen; biological sciences, from Baylor College of Medicine, \$69,854, “Structures of the Portal Vertex in dsDNA Viruses and Virus-Infected Cells, Amendment 1.”

Jiang, Yiwei; agronomy, from Purdue Research Foundation: XR Grant, \$16,795, “Natural Variation in Antioxidative Mechanisms of Perennial Grass Under Simultaneous Drought and Heat Stress.”

Johnson, April J; comparative pathobiology, from Purdue University, \$8,000, “Prevalence of and Risk Factors Associated with Methicillin Resistant Staphylococcus Aureus MRSA in Equine Veterinary Patients Presenting to Purdue University School of Veterinary Medicine Veterinary.”

Johnson, David R; materials engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Development of Thermodynamic Databases for Mg-based Metal Matrix Composites.”

Johnson, William G; botany & plant pathology, from Purdue Research Foundation: XR Grant, \$16,795, “2, 4-D Effect on Dow Herbicide Tolerant Soybean.”

Johnson, William G; botany & plant pathology, from Monsanto Company, \$4,500, “Weed Research.”

Johnston, Cliff T; agronomy, from Michigan State University, \$61,916, “Environmental; Microbial; and Mammalian Biomolecular Responses to AHR Ligands, Amendment 6.”

Johnston, Cliff T; agronomy, from Cook Biotech, Inc., \$1,200, “Differential Scanning Calorimetry.”

Kak, Avinash C; electrical & computer engineering, from Infosys Technologies Ltd, \$100,000, “An Agent-Based and Model-Driven Framework for Human-Assisted Approach to Code Modularization.”

Kandil, Amr; civil engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Natural Language of Processing for Legal Decision Support and Automated Contract Administration in Large-Scale Construction Projects.”

Kannan, Karthik N; management, from Purdue Research Foundation: XR Grant, \$16,795, “Nudging the Digital Pirate.”

Karava, Panagiota; civil engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Development of Mixed-Mode Low-Energy Cooling Systems with Embedded Intelligence to Enable High Performance Buildings.”

Keener, Kevin M; food science, from Purdue Doctoral Program, \$10,662, “Nelson, Louis.”

Keener, Kevin M; food science, from Environmental Protection Agency, \$50,000, “Development of a Compliance Assistance Center for the Food Processing Industry.”

Kenttamaa, Hilkka I; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Center for the Catalytic Conversion of Biomass to Bioenergy (C3Bio).”

Key, Nicole L; mechanical engineering, from National Aeronautics and Space Administration, \$30,000, “Natalie Smith 10/11 NASA-Vane Clocking Effects on the Unsteady Vane Boundary Layer Response of an Embedded Compressor State.”

Killion, Vicki J; library administration, from Indiana State Library, \$19,825, “The State of Hoosier Agriculture in the Pre and Post Civil War Years: Digitizing the Indiana Farmer.”

Kim, Chang H; comparative pathobiology, from Winifred B. Bilsland Endowment, \$19,173, “Wang, Chuanwu.”

Kim, Kee Hong; food science, from Purdue Research Foundation: XR Grant, \$16,795, “Role of Piceatannol in Adipose Development and Function.”

Kim, Young L; biomedical engineering, from Purdue University, \$8,000, “Development of Novel Biosensors Toward Single-Molecule Detection Using Random Lasing Effects.”

Kinzig, Kimberly P; psychological sciences, from National Institutes of Health, \$247,865, “Effects of Dietary Macronutrients on Regulation of Energy Balance.”

Kirchmaier, Ann L; biochemistry, from National Science Foundation, \$6,000, “REU Supplement-Cell Cycle Inhibition of Silencing in *S. Cerevisiae*.”

Kirshner, Julia and Cheng, Ji-Xin; biological sciences, biomedical engineering, from Showalter Trust, \$75,000, “Nonlinear Optical Imaging to Measure Dynamics of Bone Marrow Colonization in a Novel 3-D Culture Model of Breast Cancer Metastasis.”

Kisselburgh, Lorraine G; communication, from Purdue University, \$8,000, “Innovation Collaborations: Modeling the Dynamical and Relational Processes of Innovation.”

Klimeck, Gerhard; electrical & computer engineering, from Lockheed Martin Corp., \$50,000, “Direct Mapping from First Principles to Empirical Tight Binding.” (a Discovery Park award — Network for Computational Nanotechnology)

Klimeck, Gerhard; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Midwest Academy for Nanoelectronics & Architectures — MANA.”

Klimeck, Gerhard; electrical & computer engineering, from Ruhr University Bochum, \$4,242, “Graduate Student Support.”

Knapp, Deborah W; veterinary clinical science, from Robert and Donna Poynter (Individual Donors), \$8,000, “Cancer Treatment Program.”

Koch, Daphne C; building construction & management technology, from Corman Construction Inc., \$2,400, “Corman Construction Foreman and Superintendent Training Program: Heavy Highway 3 2010.”

Kompella, Ramana Rao; computer science, from Google Inc., \$50,000, “Google Inc.”

Kong, Nan; biomedical engineering, from University of Pittsburgh, \$50,000, “Stochastic Pseudo-Boolean Programming.”

Kranz, Sibylle; foods & nutrition, from The University at Albany-Suny, \$32,590, “A Childhood Obesity Prevention Program Designed by Families for Families.”

Kruczenski, Luis M; physics, from National Science Foundation, \$35,000, “Gauge Theories, Strong Interactions, and String Theory, Amendment 2.”

Krupke, Christian H; entomology, from Monsanto Company, \$8,000, “Krupke - Entomology - Research.”

Krupke, Christian H; entomology, from National Institute of Food & Agriculture, \$89,923, “Developing Management Plans for Glyphosate-Tolerant bt Corn: Does Volunteer Corn Present Short and Long-Term Risks for Corn Rootworm Management.”

Krutz, Gary W; agricultural & biological engineering, from Parker Hannifin Corp., \$76,839, “O-Ring Seal Leakage Sensor.”

Kuang, Shihuan; animal sciences, from Purdue Research Foundation: XR Grant, \$16,795, “Bioactive Scaffolds for Highly Efficient Muscle Regeneration.”

Kuang, Shihuan; animal sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$343,125, “Notch Regulation of Stem Cell Fate in Muscle.”

Kuhn, Richard J; Adamec, Jiri and Perera, Rushika M; biological sciences, Bindley Bioscience Center, from National Institutes of Health, \$190,625, “Membrane Rearrangements in Flavivirus Infected Cells.” (a Discovery Park award — Bindley Bioscience Center)

Kulkarni, Milind; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Adaptive Run-Time Systems for Parallel Irregular Programs.”

Latour, Mickey A; animal sciences, from Indiana Meat Packers and Processors Association, \$4,000, “IMPPA.”

Lawson, Sharon M; field extension educators, from Crawford City Council for a Drug-Free Community, \$975, “Project LEAD.”

Lechtenberg, Victor L; office of engagement, from Woodrow Wilson National Fellowship Foundation, \$76,500, “Indiana Teaching Fellowship Program STEM Goes Rural Amendment.”

Lee, Linda S; agronomy, from Purdue Research Foundation: XR Grant, \$16,795, “Release, Transport, and Persistence of Emerging Contaminants of Concern in Biosolids.”

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.”

Lehto, Mark R; industrial engineering, from Procter & Gamble Company, \$200,000, “Enhancement of Organizational Memory for Industrial Engineering Applications.”

Lehto, Xinran Y; hospitality & tourism, from Purdue Research Foundation: XR Grant, \$16,795, “Expanding Horizons: Leisure as a Context for Intercultural Contact for Undergraduate Students in the U.S.”

Lescun, Timothy B; veterinary clinical science, from Indiana Horse Council, \$2,176, “IHCF - Sugar Pep Rio Fund.”

Leung, Yuk Fai and Kihara, Daisuke; biological sciences, from Showalter Trust, \$75,000, “Elucidating Genetic Pathways for Curing Retinal Degeneration.”

Li, Bo; statistics, from National Science Foundation, \$145,000, “Spatially Correlated Data with Errors-In-Variables: Inference and Prediction with Application to Paleoclimate Reconstruction.”

Li, Kai Ming; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “An Integrated Fluid Dynamic and Aeroacoustic Study for Noise Reduction in Passenger Vehicles.”

Liceaga, Andrea M; food science, from Purdue Research Foundation: XR Grant, \$16,795, “Functional and Physicochemical Properties of Fish Protein Hydrolysates.”

Lin, Xiaojun; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Supporting Delay-Sensitive Elastic Traffic in Wireless Mesh Networks.”

Lipshitz, Leonard M; mathematics, from Purdue Research Foundation: XR Grant, \$16,795, “Real Closed Fields with Analytic and Exponential Structure.”

Lipton, Mark A; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “A General Strategy for Native Chemical Ligation of Peptides Using Copper-Assisted Azide-Alkyne Cycloaddition.”

Liu, Judy; civil engineering, from National Science Foundation, \$100,000, “Collaborative Research: Structural Integrity of Steel Gravity Framing Systems.”

Liu, Lu; industrial engineering, from Purdue Research Foundation: XR Grant, \$16,795, “New Modeling and Algorithmic Approaches to Strategic Real Options.”

Lopez, Roberto G; horticulture & landscape architecture, from Goldsmith Seeds, \$3,415, “Multi-Sponsored Gift Account.”

Lu, Chien-Tsung; aviation technology, from Purdue University, \$8,000, “Integrated Safety & Security Management System.”

Lucas, Jeffrey R; biological sciences, from Purdue Research Foundation: XR Grant, \$16,795, “The Potential for Eavesdropping: Physiological and Behavioral Responses of Brown-Headed Cowbirds to Host Vocalizations and Acoustic Degradation.”

Lundstrom, Mark S; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Network for Computational Nanotechnology.”

Lundstrom, Mark S; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Network for Computational Nanotechnology.”

Luo, Zhao-Qing; biological sciences, from Purdue Research Foundation: XR Grant, \$16,795, “Modulation of Host Vacuolar H⁺-ATPase by Legionella.”

Lynam, Donald R; psychological sciences, from University of Kentucky Research Foundation, \$24,226, “Mediating Processes in the Personality Substance Use Relation.”

Lyutikov, Maxim Y; physics, from Purdue University, \$8,000, “Non-Thermal Filaments in Shell-Type SNRs-Constraining Plasma Turbulence & Cosmic Ray Acceleration Models.”

Ma, Jianxin; agronomy, from Indiana Soybean Alliance, \$80,058, “Genetic Dissection of Uncharacterized Rps Genes Conferring Resistance to Phytophthora Root Rot and Development of Molecular Markers Associated with Rps Genes for Marker-Assisted Selection in Soybean.”

Ma, Jianxin; agronomy, from United Soybean Board, \$78,646, “Deciphering Soybean Stem Growth Habit Toward Molecular Design Breeding of Morphological and Agronomical Traits with High Yielding Potential.”

Malewski, Erik L; curriculum & instruction, from Purdue University, \$8,000, “The Long Term Effects of Study Abroad for Preservice Teachers: a Study of Their Curriculum & Pedagogy Once They Become Classroom Teachers.”

Malis, Oana; physics, from Purdue Research Foundation: XR Grant, \$16,795, “Intersubband Transitions in Nitride Semiconductors.”

Mancing, Howard; foreign language & literature, from Purdue Research Foundation: XR Grant, \$16,795, “Uncovering Fictional Minds: Theory of Mind, Embodied Cognition and Social Thinking in Twentieth-Century Spain.”

Manfra, Michael J and Malis, Oana; physics, from National Science Foundation, \$359,987, “Terahertz Quantum Cascade Laser Utilizing Lattice-Matched III-Nitride Heterostructures.” (a Discovery Park award — Birck Nanotechnology Center)

Mann, Rebecca L; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “An Investigation of the Effectiveness of Total School Cluster Grouping on Student Achievement Levels, Identification, and Teaching Practices.”

Mantzicopoulos-James, Panayota Y; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “Teacher-Child Relationships in Turkish First-Grade Settings: an Examination of the Applicability of the Student-Teacher Relationship Scale (STRS).”

Marsh, Dawn G; history, from Purdue University, \$8,000, “Hiding in Plain Sight: Hannah Freeman: a Lenape Woman in Penns Peachable Kingdom.”

Marshall, Brandeis H; computer & information technology, from Purdue Research Foundation: XR Grant, \$16,795, “Seeing Eye Phone.”

Martinez, Carlos J; materials engineering, from Purdue University, \$8,000, “Microfluidic Methods for the Fabrication of Novel Particles & Capsules for Drug Delivery.”

Mason, Linda J; entomology, from Purdue Research Foundation: XR Grant, \$16,795, “Cleaning Up a Pest: A Look at the Influence of Sanitation in Stored-Grain Facilities on Pest Ecology and Operational Finances.”

Matson, Eric T; computer & information technology, from Purdue University, \$8,000, “Maximizing the End to End Distance of Robotic Autonomous Self-Organizing Mobile Broadband Networks.”

Mattes, Richard D; foods & nutrition, from Sugar Association, Inc. (the), \$5,000, “Mattes-Sugar Association.”

Mattes, Richard D; foods & nutrition, from Almond Board of California, \$349,956, “Effects of Chronic Almond Consumption at Meals or as Snacks on Appetite, Intake, Body Weight, Glycemia, Insulinemia and Liquids in Healthy Adults.”

Mauer, Lisa J; food science, from Sara Lee Bakery Group, \$1,000, “Multi-Sponsored Gift.”

Mauer, Lisa J; food science, from Triclinic Labs Inc., \$400, “Multi-Sponsored Gift.”

Maynard, Elizabeth T; horticulture & landscape architecture, from Syngenta Seeds, Inc., \$300, “Research for 1995 Vegetable Variety Trial Program.”

McBride, William L; philosophy, from Purdue Research Foundation: XR Grant, \$16,795, “The Radical Potential of the Body: Pushing Irigaray Psychoanalytic Theory in a Different Direction.”

McCann, James A; political science, from Russell Sage Foundation, \$24,825, “Election Campaigns and the Political Incorporation of Immigrants.”

McClain, Bonnie J; discovery park administration, from Goddard Space Flight Center, \$204,454, “Intergovernmental Personnel Act (IPA) Contract for Bonnie McClain with NASA-Extension Request.” (a Discovery Park award — Discovery Park Administration)

McCullough, Robert G; anthropology-Fort Wayne campus, from Indiana Department of Natural Resources, \$6,400, "Culbertson Mansion State Historic Site. Conduct Archaeological Reconnaissance."

McKee, Renee K; youth development & agricultural education, from Cooperative State Research Service, \$140,000, "EUREKA (Education Underscores Rewards in Economic/Knowledge Attainment)."

McMillin, David R; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, "Designer Porphyrins for DNA Quadruplex Binding."

McNamara, Kevin T; International Programs in Agriculture, from The Indiana National Guard, \$50,763, "Indiana National Guard Ag Development Team Training."

Melosh, Henry J; earth & atmospheric sciences, from Sigma XI, \$1,000, "Multi-Sponsored Voluntary Support Fund."

Mendrysa, Susan M; basic medical science, from Purdue Research Foundation: XR Grant, \$16,795, "MDM2 Inhibition as a Novel Therapeutic Strategy for the Treatment of Medulloblastoma."

Mengiste, Tesfaye D; botany & plant pathology, from National Science Foundation, \$6,000, "REU Supplement/Genetic, Molecular and Biochemical Basis of Pathogen and Stress Induces Necrosis."

Merwade, Venkatesh M; civil engineering, from National Science Foundation, \$29,586, "Workshop Support: Building a Community Vision and Plan for Data and Modeling Driven Geoinformatics Curriculum Modules for Hydrology Education." (a Discovery Park award — Center for the Environment)

Miao, Li; hospitality & tourism, from Purdue University, \$8,000, "Service Consumption and Sense of Self."

Michler, Charles H; forestry & natural resources, from U.S. Forest Service, \$35,000, "Hardwood Tree Improvement and Regeneration Center."

Michler, Charles H; forestry & natural resources, from North Carolina State University, \$5,251, "Center for Tree Genetics-NCSU."

Michler, Charles H; forestry & natural resources, from National Science Foundation, \$8,000, "Collaborative Research: Center for Advanced Forestry Systems-NSF/RUE Supplement."

Mickelbart, Michael V; horticulture & landscape architecture, from Harrells LLC, \$250, "Landscape Architecture Research."

Mintert, James R and Ballard, Roy W; agriculture-administration, field extension educators, from University of Minnesota, \$42,400, "PDP Indiana Plan of Work 2010."

Mobley, Amy R; foods & nutrition, from Purdue Research Foundation: XR Grant, \$16,795, "Beyond 5-A-Day: an Examination of Memorable Messages Within a Fruit and a Vegetable Intervention for Low-Income Africa."

Mobley, Amy R; foods & nutrition, from University of Nevada, \$36,056, "All 4 Kids: Resiliency in an Obesogenic Environment."

Mohammadi, Saeed; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$239,457, "Silicon on Insulator High Power Amplifiers (SOIHPA)." (a Discovery Park award — Birck Nanotechnology Center)

Mohammed, Sulma I; comparative pathobiology, from Fairview Industries, \$15,000, "Cancer Research Lab Support."

Molnar, Denes; physics, from Purdue Research Foundation: XR Grant, \$16,795, "Dissipative Phenomena in Heavy Ion Collisions."

Mullen, Bill V; English, from Purdue Research Foundation: XR Grant, \$16,795, "Jubilant Spirits of Freedom: The Lindy Hop as a Form of Rebellion."

Murawski, Matthew M; pharmacy practice, from Purdue Research Foundation: XR Grant, \$16,795, "Postgraduate Training in the Pharmaceutical Sciences: Assessment and Comparison of Resident, Fellow, and Graduate Student Motivational Beliefs and Perceptions Regarding Pursuance of Postgraduate Training."

Murthy, Jayathi Y; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, "PRISM: Center for Prediction of Reliability, Integrity & Survivability of Microsystems National Nuclear."

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

Nash, Christiane L; pharmacy practice, from Fred Run Ltd., \$325, "Pharmacy Diabetes Education Program."

Nash, Christiane L; pharmacy practice, from Louisville Numismatic Exchange Inc., \$250, "Pharmacy Diabetes Education Program."

Newcomer, Sean C; health & kinesiology, from Purdue Research Foundation: XR Grant, \$16,795, "Prevalence of Peripheral Arterial Disease in Individuals with Spinal Cord Injury."

Newcomer, Sean C; health & kinesiology, from American College of Sports Medicine, \$9,971, "Impact of External Mechanical Compressions on Skeletal Muscle Gene Expressions and Blood Flow Capacity."

Newton, Jill A; curriculum & instruction, from Purdue Research Foundation: XR Grant, \$16,795, "Empowering Secondary Mathematics Teachers through Collaborative Action Research."

Nichols, Krista M; forestry & natural resources, from University of Wisconsin at Milwaukee, \$16,880, "Aquaculture Production."

Nielsen, S S and Hamaker, Bruce R; food science, from National Institute of Food & Agriculture, \$702,000, "International Center for Food Technology Development to Expand Markets."

Niyogi, Devdutta S and Carroll, Natalie J; agronomy, agricultural & biological engineering, from University of California-Berkeley, \$78,631, "Communicating Ocean Sciences Informal Education Network: Scientists and Educators Working Together to Promote Ocean Literacy." (a Discovery Park award — agronomy, agricultural & biological engineering)

Novak, Robert E; speech, language & hearing sciences, from Chappelle, \$19,173, "Saba, Zeina M."

Nyenhuis, John A; electrical & computer engineering, from Biomet Inc., \$10,000, "MRI Evaluation of Biomet Implants."

Nyenhuis, John A; electrical & computer engineering, from Biomet Inc., \$20,000, "MRI Evaluation of Biomet Implants."

Olek, Jan and Weiss, William J; civil engineering, from Iowa State University, \$50,000, "Pavement Joint Deterioration Study."

Olek, Jan; civil engineering, from Iowa Department of Transportation, \$68,303, "Contract TR-450-200392."

Ouzzani, Mourad; Cyber Center, from University of Louisville, \$98,525, "Mass Informatics for Two Dimensional Gas Chromatography Time-of-Flight Mass Spectrometry Based Metabolomics." (a Discovery Park award — Bindley Bioscience Center)

Owens, Phillip R; agronomy, from Purdue University, \$8,000, "Development of a Digital Soil Mapping Process for Crop Management Strategies."

Pai, Vijay S; electrical & computer engineering, from National Science Foundation, \$39,586, "CRI: IAD: Accelerator-Based High Performance Computing, Amendment 2."

Parashar, Neeti; chemistry & physics-calumet campus, from National Science Foundation, \$113,000, "Research in High Energy Physics on the CSM Experiment, Amendment 1."

Park, Chiwook; medicinal chemistry & molecular pharmacology, from Purdue University, \$8,000, "Identification of Cellular Targets of Methotrexate on a Proteomic Scale."

Park, Chiwook; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation: XR Grant, \$16,795, “Investigation of the Biochemical Function of AMP as a Metabolic Regulator by Energetics-Based Target Identification Approach.”

Park, Kinam and Yeo, Yoon; biomedical engineering, industrial & physical pharmacy, from DKC Corporation, \$32,793, “Biological Applications of Novel Fluorescent Probes.”

Park, Kinam; biomedical engineering, from Showalter Trust, \$60,000, “Microcapsules for Long-Term Protein Delivery.”

Park, Kinam; biomedical engineering, from IU School of Medicine, \$77,748, “Exercise, Diabetes, & Coronary Smooth Muscle Ca²⁺.”

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

Peroulis, Dimitrios; electrical & computer engineering, from Laserlith Corp, \$160,000, “MEMS for Electronically Steerable Antennas and Gyroscopes.” (a Discovery Park award — Birck Nanotechnology Center)

Pfeffer, Carla A; social science-North Central campus, from Purdue University, \$8,000, “Body Politics: How Size Acceptance Advocates Negotiate Conflicting Imperatives in the Era of the Obesity Epidemic.”

Phillion, Joann I; curriculum & instruction, from Purdue Research Foundation: XR Grant, \$16,795, “A Critical Analysis of Curriculum and Pedagogy in Indigenous Education: Hopi and Tewa Educators Engaging in the Process.”

Pijanowski, Bryan C; forestry & natural resources, from U.S. Geological Survey, \$322,045, “Land Change Analysis and Modeling to Support the Multi-Scale Assessment of Land Use and Climate Change Impacts on the Nations Fish Habitat.”

Pinan-Llamas, Aranzazu; geosciences-Fort Wayne campus, from Purdue University, \$8,000, “Lower Paleozoic Tectonic Evolution in Sierra De Quilmes, North-Central Argentina.”

Pogranichniy, Roman M; comparative pathobiology, from Kansas State University, \$7,500, “PRRS CAP Host Genetics: Characterization of Host Factors that Contribute to PRRS Disease Resistance and Susceptibility.”

Post, Carol B; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$311,787, “NMR Structure of Peptide and Protein Complexes.”

Pothen, Alex; computer science, from U.S. Department of Energy, \$425,035, “Combinatorial Scientific Computing and Petascale Simulations Institute, Modification 2.”

Purcell, Lindsey A; forestry & natural resources, from Duke Energy Foundation, \$1,000, “Voluntary Support-Purcell.”

Pushkar, Yulia N; physics, from Purdue Research Foundation: XR Grant, \$16,795, “Uncovering the Mechanism of Water Splitting: Ultra-Fast Cryogenic Trapping of Photosystem II with the Oxygen Evolving Complex in the High S-States.”

Pyrak-Nolte, Laura J; physics, from U.S. Department of Energy, \$112,875, “The Physics of Swarms in Fracture Networks: Integration of Seismic Characterization and Controlled Micro-Transport, Modification 1.”

Qi, Minghao and Xu, Xianfan; electrical & computer engineering, mechanical engineering, from Massachusetts Institute of Technology, \$95,833, “Membrane Technology and 3-D Photonic-Crystal Devices.” (a Discovery Park award — Birck Nanotechnology Center)

Qiao, Li; aeronautical & astronautical engineering, from Army Research Office, \$37,448, “Ignition and Burning Behavior of Fuel Droplets with Energetic Nanoparticle Addition.”

Qiao, Li; aeronautical & astronautical engineering, from Argonne National Laboratory, \$12,904, “Flame Speed Measurement of Syngas/Air Mixtures.”

Radcliffe, David F; engineering education, from Purdue University Special Initiative Program, \$20,673, “Cawthorne, James E.”

Raghunathan, Anand; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Scalable-Effort Algorithms & Architectures for Recongnition & Mining.”

Rajwa, Bartłomiej P; basic medical science, from J M Malone and Son Inc., \$5,182, “Ploidy Level Determination in Chinese Grass Carp Larvae Using Flow Cytometry.” (a Discovery Park award — Bindley Bioscience Center)

Ramkrishna, Doraiswami; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Towards Customized Maintenance Therapy Chemotherapeutic Dosing for Childhood Acute Lymphoblastic Leukemia by Model-Predictive Control.”

Raskin, Rose E; comparative pathobiology, from Antech Diagnostics, \$2,150, “Immunocytochemistry Research.”

Raymond, Leigh S; political science, from Purdue Research Foundation: XR Grant, \$16,795, “Revisiting Who Influences Whom?: A Study of Agenda Setting and Issue Framing on Biofuels.”

Rego, Vernon J; computer science, from Purdue Research Foundation: XR Grant, \$16,795, “Dynamic Stego Communication in Financial Contexts.”

Reklaitis, Gintaras V; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Pharma ERC.”

Remis, Melissa J; anthropology, from Purdue University Special Initiative Program, \$20,673, “Jost, Carolyn A.”

Reuer, Jeffrey J; management, from Ross Graduate Fellowship/Assistantship, \$3,021, “Dutta, Supradeep.”

Rhoads, Jeffrey F; mechanical engineering, from Purdue University, \$8,000, “Copying Nature with Nanoscience: Biologically-Inspired Micro-and Nano-Electromechanical Systems for Computing, Sensing and Signal Processing.”

Ribeiro, Fabio H; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Institute for Atom-Efficient Chemical Transformations (IACT).”

Richmond, Douglas S; entomology, from E. I. duPont de Nemours and Company, \$18,200, “Turfgrass Entomology Research.”

Robinson, William R; chemistry, from American Chemical Society, \$8,602, “A Proposal to Host the Office of the American Chemical Societys Division of Chemical Education.”

Rokhinson, Leonid P; physics, from Army Research Office, \$30,000, “Digital Control of Exchange Interaction in a Spin-Based Silicon Quantum Computer.”

Rosenthal, Frank S; health sciences, from PHS-CDC National Institute of Occupation, Safety, Health, \$79,654, “Occupational Safety and Health Training Grant (NIOSH/CDC).”

Ross, Charles S; english, from Purdue Research Foundation: XR Grant, \$16,795, “Cao Yu and Western Tragedy.”

Ross, Charles S; comparative literature, from Winifred B. Bilsland Endowment, \$9,587, “Williams, Tatjana B.”

Ross, Jody M; psychology-Fort Wayne campus, from Purdue University, \$8,000, “A Comparison of Mens and Womens Use of Control in Violent Relationships.”

Rossmann, Michael G; Chen, Jue and Kuhn, Richard J; biological sciences, from National Institutes of Health, \$723,607, “Structure & Function of Flaviviruses.”

Roy, Kaushik; electrical & computer engineering, from Qualcomm Incorporated, \$70,000, “STT-MRAM Research Engagement.”

Ruan, Xiulin; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Minimizing Electron-Phonon Relaxation Loss Using Non-Spherical Quantum Dot Solar Cell Materials.”

Rud, A G; educational studies, from Purdue University Special Initiative Program, \$20,673, “Nelson, Joan M.”

Saeedifard, Maryam; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Modeling and Control of Modular Multilevel Converters for Grid Integration of Wind Farms.”

Salt, David E; horticulture & landscape architecture, from Purdue Research Foundation: XR Grant, \$16,795, “Understanding the Role of ESB1 in Suberin Biosyntheses.”

Sameh, Ahmed H; computer science, from Intel Corporation, \$55,000, “Intel Corporation.”

Sanders, John H; agricultural economics, from University of Nebraska, \$151,275, “Evaluation of the Impacts of New Technology in Central America of the INTSORMIL Program.”

Schendel, Dan E; management, from Strategic Management Society, \$2,190, “Strategic Management Society.”

Schmidt, Edie K; industrial technology, from Purdue University Special Initiative Program, \$20,673, “McGee, Alyssa R.”

Schmidt, Gudrun; biomedical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Relating Molecular Self-Assembly to Mechanical Strength in Nanocomposite Hydrogels.”

Schneider, John A; Vice President for Research, from Access Technology Across Indiana (ATAIN), \$11,593, “Indiana Innovation Network.”

Schoenlein, William E and Van Alstine, William G; biomedical engineering, comparative pathobiology, from Medicine Institute, Incorporated, \$44,914, “Innovative Medical Device Evaluation (MFN-MLUQ).”

Schoenlein, William E; biomedical engineering, from Medicine Institute, Incorporated, \$22,010, “Prototype Vascular Stent Testing (CI-PBFE and CI-PBC2) Grant 203133, Amendment 22.”

Schoenlein, William E and Van Alstine, William G; biomedical engineering, comparative pathobiology, from Medicine Institute, Incorporated, \$25,896, “Prototype Vascular Stent Testing (CI-SMDX) Grant # 203133, Amendment 23.”

Schweickert, Richard; psychological science, from Purdue Research Foundation: XR Grant, \$16,795, “Effects of Sleep on Intentional Forgetting.”

Sedlock, Darlene A; health & kinesiology, from Purdue University Special Initiative Program, \$20,673, “He, Feng.”

Sedlock, Darlene A; health & kinesiology, from Purdue Research Foundation: XR Grant, \$16,795, “Antioxidant Supplementation, Muscle Damage, and Lymphocyte Apoptosis.”

Shah, Kavita; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Identification and Validation of Aurora a Kinase Substrates in Prostate Cancer.”

Shaver, Gregory M; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Technology & System Level Demonstration of Highly Efficient & Clean Diesel Powered Class 8 Trucks.”

Shaver, Gregory M; mechanical engineering, from Truck Emissions Control Technology, \$85,000, “Mobile Data Acquisition System Calibration and Emission Testing Tasks.”

Shields, Cleveland G; child development & family studies, from Purdue Research Foundation: XR Grant, \$16,795, “Communication and Diabetes Management Study.”

Shih, Tom I; aeronautical & astronautical engineering, from Chappelle, \$19,173, “Spreen, Christopher M.”

Shih, Tom I; aeronautical & astronautical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Orbital Mechanics.”

Shih, Tom I; aeronautical & astronautical engineering, from Chappelle, \$19,173, “Morgan, Collin, J.”

Si, Luo; computer science, from National Science Foundation, \$139,274, “CAREER: an Integrated and Utility-Centric Framework for Federated Text Search, Amendment 3.”

Siegmund, Thomas H; Bolton, J S and Cipra, Raymond J; mechanical engineering, from Air Force Office of Scientific Research, \$117,769, “Macroscale Meta-Materials:from Manufacturing to Multifunctional Properties.”

Simpson, Garth J; chemistry, from Eastman Chemical Company, \$6,000, “Eastman Chemical Fellowship-Kissick.”

Slamovich, Elliott B; materials engineering, from National Science Foundation, \$1,000, “2007 National Science Foundation Graduate Research Fellowship Award-Smith, Kyle.”

Sloan, Mary Anne; technology asst program, from Indiana State Department of Health, \$83,300, “MLC-3 (Amendment 5/Year 3).”

Sloan, Mary Anne; technology asst program, from Indiana State Department of Health, \$125,326, “H1N1 Attachment A.”

Sloan, Mary Anne; technology asst program, from Indiana State Department of Health, \$28,260, “PHSQIP Attachment G.”

Smith, Alan L; health & kinesiology, from Purdue University Special Initiative Program, \$20,673, “Trembath, Felicia E.”

Smith, Alan L; health & kinesiology, from Purdue University Special Initiative Program, \$0, “Trembath, Felicia E (2).”

Smith, Anne; speech, lang & hearing sciences, from Purdue Research Foundation: XR Grant, \$16,795, “Autonomic Influences on Speech Production and Acoustics.”

Smith, Daniel T; industrial & physical pharmacy, from World Health Organization, \$5,000, “Medicines for Children - Research Concept Note - Fixed Dose Combination Product Containing Isoniazid, Rifampicin, Ethambutol and Pyrazinamide.”

Smith, Richard S; food science, from Brand Management Solutions LLC, \$1,000, “Sensory Evaluation Research.”

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

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

Smith, Richard S; food science, from Cargill Meat Solutions Corp, \$2,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Select Food Products Inc., \$2,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Furlani Food Corporation, \$1,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from J Bar B Foods, \$2,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Clabber Girl, \$3,000, “Sensory Evaluation Research.”

Smith, Richard S; food science, from Jasper Wyman & Son, \$5,000, “Food Science Research.”

Snow, Lowell D; Technology Assistance Program, from Ivy Tech State College, \$53,100, “Workforce and Economic Development Lean Training and Certification, Attachment B.”

Snyder, Margie E; pharmacy practice, from Community Pharmacy Foundation, \$22,055, “Who is at Risk?: Identifying Patients in Need of Medication Therapy Management Services.”

Spafford, Eugene H; computer science, from Sypris Electronics, \$60,000, “CERIAS Voluntary Support.”

Spafford, Eugene H; CERIAS, from National Science Foundation, \$47,487, “A Dual-Track Masters Degree Program for Information Security Specialists.”

Spafford, Eugene H; computer science, from Griffiss Institute Inc., \$60,000, “CERIAS Voluntary Support.”

Spencer, Jack W; sociology, from Purdue Research Foundation: XR Grant, \$16,795, “Negotiating Homosexuality Within American Evangelicalism.”

Stansbury, Betty M; airport operations, from Indiana Department of Transportation, \$987, “Construction New 8 Unit T-Hanger (Phase 2).”

Stephenson, Marcia C; foreign language & literature, from Purdue Research Foundation: XR Grant, \$16,795, “Natural History from the Feminine Perspective: Transatlantic Subjectivity in the Works of Maria Graham, Nisia Floresta, and Gertrudis Gomez De Avalleneda.”

Steup, Matthias P; philosophy, from Winifred B. Bilsland Endowment, \$19,173, “Emamjomeh, Somaieh.”

Sula, Laurie L; field extension educators, from Goshen Health System, \$2,000, “Professor Popcorn/20 Million Steps.”

Sun, Dengfeng; aeronautical & astronautical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Contrail Impact on Air Traffic Flow Management.”

Swithers, Susan E and Davidson, Terry L; psychological sciences, from National Institutes of Health, \$239,325, “Food Cues, Calories and Energy Regulation in Rats.”

Switzer, Beth R; field extension educators, from Indiana Coalition to Improve Adolescent Health, \$2,500, “GTG: Just Killed Someone.”

Sypher, Howard E; communication, from Purdue University Special Initiative Program, \$20,673, “Yehya, Nadine A.”

Sypher, Howard E; communication, from Purdue University Special Initiative Program, \$20,673, “King, Abigail S.”

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

Tan, Hong Z; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Haptic Texture Synthesis: Validation of Texture Perception Space with Matching Experiments.”

Tan, Li-Zhe; technology-North Central campus, from Purdue University, \$8,000, “Canonical Piecewise Linear Adaptive Filters for Nonlinear Active Noise Control.”

Taparowsky, Elizabeth J; biological sciences, from PHS-NIH National Cancer Institute, \$255,536, “AP-1 Complexes and Target Gene Regulation.”

Targ, Harry R; political science, from Purdue Research Foundation: XR Grant, \$16,795, “The Sine Qua Non of National Power: the Importance of the Effective Population and the Relative Youth Cohort Size in Understanding Great Power War and Political Instability.”

Tenorio, Cecilia I; liberal arts-administration, from Indiana Humanities Council, \$1,951, “Communication Across the Language Barrier: the Basics of Community Translation and Interpreting.”

Thompson, David H; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Microfabricated H1N1 pDNA Nanoparticle Vaccine for Swine Flu.”

Troped, Philip J; health & kinesiology, from Purdue Research Foundation: XR Grant, \$16,795, “Physical Environmental, Social, and Psychological Correlates of Active Commuting.”

Tung, Wen-Wen; earth & atmospheric sciences, from Purdue Research Foundation: XR Grant, \$16,795, “Sensitivity of the Asian Summer Monsoon Simulation to the Convection, Cloud Microphysics, and Associated Radiative Effects.”

Tzempelikos, Athanasios; civil engineering, from Chappelle, \$19,173, “Rastogi, Parag.”

Uhan, Nelson A; industrial engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Optimization-Based Approaches to Network Interdiction.”

Ukkusuri, Satish V; civil engineering, from National Science Foundation, \$463,410, “Collaborative Proposal: DRU: Incorporating Household Decision Making and Dynamic Transportation Modeling in Hurricane Evacuation. an Integrated Social-Science Engineering Approach.”

Ulrich, Bernd; mathematics, from National Science Foundation, \$42,000, “Special Algebra Meetings in the Midwest, Amendment 2.”

Vanfossen, Phillip J; curriculum & instruction, from Purdue University Special Initiative Program, \$20,673, “Agathon, Katherine.”

Vitek, Jan; computer science, from Purdue Research Foundation: XR Grant, \$16,795, “Software Hardening from Scripts to Programs.”

Vitek, Jan; computer science, from National Science Foundation, \$16,000, “CPA-CPL Certified Garbage Collection for Highly Responsive Systems.”

Vitek, Jan; computer science, from National Science Foundation, \$16,000, “CSR-EHS: High Throughout Real-Time Stream Processing in Java.”

Vyn, Tony J and Camberato, James J; agronomy, from Indiana Soybean Alliance, \$50,000, “Effective Micronutrient Management for Higher Soybean Yields in Indiana: Year 2.”

Vyn, Tony J; agronomy, from John Deere US Ag, \$200,000, “Ammonia Applicator: Prospect for Sustainable Corn Yield Gains.”

Wachs, Juan P; industrial engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Distributed Sensor Fusion Methodology in Intelligent Rooms for Assisted Living Facilities.”

Waldorf, Brigitte S; agricultural economics, from Purdue Research Foundation: XR Grant, \$16,795, “The Effect of Macroeconomic Shocks on the Food Stamp Program.”

Weaver, Connie M; foods & nutrition, from Winifred B. Bilsland Endowment, \$19,173, “Park, Clara Y.”

Weaver, Connie M; foods & nutrition, from Winifred B. Bilsland Endowment, \$9,587, “Miracle, Angela D.”

Weaver, Connie M; foods & nutrition, from Sara Lee Bakery Group, \$6,000, “Corporate Affiliates Fund.”

Wei, Alexander; chemistry, from National Science Foundation, \$422,000, “Nucleation and Growth of Anisotropic Magnetic Nanostructures.”

Wei, Alexander; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Synthesis and Screening of Heparin-Like Sulfoforms as Inhibitors of Urokinase-uPAR Activation.”

Weiner, Andrew M; electrical & computer engineering, from Naval Postgraduate School, \$793,943, “Novel Ultrabroadband Photonic and Radio-Frequency Systems for Communications, Sensing and Countermeasures.”

Wendt, Oliver; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “Do Replacement Behaviors Impact the Effectiveness of Functional Communication Training (FCT)?”

Whiteman, Shawn D; child development & family studies, from National Institutes of Health, \$218,585, “Sibling Influences on Adolescents Alcohol and Substance Use Orientations.”

Wild, Robert E; chemistry, from Procter & Gamble Company, \$10,000, “09/10 & 10/11 Procter & Gamble Fellowship.”

Williams, Ralph E; entomology, from Sky Sight Technologies LLC, \$25,976, “Development and Commercialization of a Tent Trap for the Surveillance and Control of Disease-Carrying Flies.”

Williams, Ralph E; entomology, from Neal H. Haskell (Individual Donor), \$200, “Entomology Research.”

Wise, Kiersten A; botany & plant pathology, from Basf Corporation, \$6,750, “Voluntary Support Account.”

Wise, Kiersten A; Creswell, Tom C and Ruhl, Gail E; botany & plant pathology, from Indiana Soybean Alliance, \$8,005, “Monitoring for Soybean Disease in Indiana.”

Wise, Kiersten A; botany & plant pathology, from Syngenta Crop Protection Inc., \$36,000, “Voluntary Support Account.”

Witt, Michael C; library administration, from Microsoft Corporation, \$5,000, “Witt, Michael.”

Woodall, Jerry M; electrical & computer engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Study and Optimization of Bulk Aluminum Alloys that Will Split Water into Hydrogen, Heat and AE(OH) for Technology Applications.”

Wu, Ching C and Howard, Richard D; comparative pathobiology, biological sciences, from Morris Animal Foundation, \$4,000, “Gut Microbes in Wild and Captive Snub-Nosed Monkeys.”

Wu, Ching C; comparative pathobiology, from Pfizer Inc., \$3,825, “Professional Development and Research.”

Xia, Yu; chemistry, from Purdue Research Foundation: XR Grant, \$16,795, “Gas Phase Reactions Between Biomolecular Ions and Radicals: Implementation, Chemistry and Applications.”

Xin, Yan Ping; educational studies, from Purdue Research Foundation: XR Grant, \$16,795, “How Students with Learning Disabilities in Mathematics Survive in Constructivist Learning Environments: A Case Study.”

Yang, Xiaoli; electrical & computer engineering-Calumet campus, from Purdue University, \$8,000, “Virtual Reality Based Human Chromosome Learning System.”

Yaninek, John S; entomology, from Purdue University Special Initiative Program, \$20,435, “Weeks, Faith J.”

Yao, Bin; mechanical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “A Holistic Approach to Adaptive Robust Control of Systems with Uncertain Nonsmooth Nonlinearities-Theory and Application to Save and Energy Efficient Control of Wind Turbines.”

Yau, David K; computer science, from National Science Foundation, \$80,328, “TC: Medium: Collaborative Research: Towards Formal, Risk Aware Authorization.”

Yeo, Yoon; industrial & physical pharmacy, from Purdue University, \$8,000, “Doubly p-H Responsive Chitosan Nanogels for Drug Delivery to Tumors.”

Yeo, Yoon; industrial & physical pharmacy, from Purdue Research Foundation: XR Grant, \$16,795, “Quinic Acid-Conjugated Nanoparticles for Tumor-Targeted Drug Delivery.”

Yi, Ji Soo; industrial engineering, from Purdue Research Foundation: XR Grant, \$16,795, “A Natural Interface for Image Navigation in the Operating Room.”

Yip, Nung Kwan; mathematics, from Purdue Research Foundation: XR Grant, \$16,795, “Bifurcation of Transition Layers in Inhomogeneous Media.”

Yuan, Chongli; chemical engineering, from Purdue Research Foundation: XR Grant, \$16,795, “The Effect of Polyelectrolyte on the Stability of the Oppositely Charged Colloidal Solution.”

Zanotti, Laura C; anthropology, from Purdue University, \$8,000, “Traditional Fisheries Knowledge, Freshwater Use, & Community Well-Being in the Central Brazilian Amazon: An Ethnographic Case Study Among the Kayapo.”

Zavattieri, Pablo D; civil engineering, from Purdue Research Foundation: XR Grant, \$16,795, “Computational Multiscale Modeling of Hierarchical Materials.”

Zhang, Dabao; statistics, from Cook Incorporated, \$14,801, “Cook Medicine Institute.”

Zhang, Hao; statistics, from Purdue Research Foundation: XR Grant, \$16,795, “Karhunen-Loeve Decomposition for Massive Spatial Data.”

Zheng, Wei; health sciences, from Columbia University, \$69,674, “Environmental Epidemiology of Essential Tremor, Amendment 2.”

Zhu, Xiumei; communication, from Purdue University, \$8,000, “Group Success Depends on Applying Human Capital to the Appropriate Group Roles.”

Zhuang, Qianlai; earth & atmospheric sciences, from U.S. Department of Energy, \$30,927, “Quantifying Climate Feedbacks from Abrupt Changes in High-Latitude Trace-Gas Emissions, Modification 2.”

Zollner, Patrick A; forestry & natural resources, from Purdue Research Foundation: XR Grant, \$16,795, “Incorporating Spatially Explicit Considerations into Estimates of Detection & Occupancy Probabilities for Wildlife.” □

Notice Regarding Sponsored Program Awards

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