

Abbott to Connor

Abbott, Angela R and Sherrow-Hayse, Erin B; health & health sciences administration, nutrition science, from Legacy Foundation, Inc., \$15,590, "Gary Healthy Food Access Coalition - Health Education."

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, \$50,000, "Improvements of Algorithms for the Production of Prototypical Synthetic Time Histories."

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, \$151,659, "Contributing to Signal Analysis Mlai Software Framework for LDRD."

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, \$500, "Danisco."

Akridge, Jay T; Rickus, Jenna L; Ward, Mark Daniel; Dragnev, Peter D; Drummond, Carl N and Selvitella, Alessandro Maria; Office of Provost Administration, Vice President for Teaching & Learning Administration, statistics, mathematics, Academic Affairs Administration, from Lilly Endowment Inc., \$10,000,000, "Charting the Future for Indiana's Colleges and Universities: the Indiana Digital Crossroads."

Alexeenko, Alina; aeronautics & astronautics, from Genentech Corporation, Inc., \$75,000, "Wireless Sensor for Vial Headspace Pressure Monitoring During Controlled Ice Nucleation Process."

Allebach, Jan P; electrical & computer engineering, from HP Inc, \$75,000, "Industrial Inspection."

Aparicio, Virginia; field extension, from Community Foundation of Elkhart County, \$500, "Frm Latino Focus Group."

Armstrong, Shalamar D and Thompson, Nathanael M; agronomy, agricultural economics, from Indiana Corn Marketing Council, \$80,083, "Enviro-Strip Cropping: a Life Cycle Analysis of Next Generation Cover Crop Management."

Basaran, Osman A; chemical engineering, from Glaxo Smith Kline, \$25,000, "Purdue Process Safety and Assurance Center(P2SAC)."

Bechtold, Naomi S; hospitality & tourism management, from United Way, \$36,402, "Volunteer Income Tax Assistance (VITA) Grant Program."

Benjamin, Tamara J; Rahman, Md S; Shoaf, Nathan Lee and Yousefi Bahambari, Peyman; Cooperative Extension Service, Engineering Projects in Community Service, from Legacy Foundation, Inc., \$25,000, "Urban Farming."

Bermel, Peter A; electrical & computer engineering, from Department of the Army, \$1,600,000, "Task 3.7.3 (Scale - SOC Model Execution)." (a Discovery Park award - Birck Nanotechnology Center)

Bermel, Peter A; electrical & computer engineering, from Department of the Army, \$4,000,000, "Task 3.7.2 (Scale - Embedded Systems Model Development/Research)." (a Discovery Park award - Birck Nanotechnology Center)

Bermel, Peter A; electrical & computer engineering, from Department of the Army, \$300,000, "Task 3.6 (Scale Hi/Ap Model Execution)." (a Discovery Park award - Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from BAE Systems Advanced Technologies, Inc., \$52,000, "Process Development, Device Fabrication and Characterization in Support of BAE Broadband Electronic-Warfare-Transceivers Enabled by Adaptive Magnetostatic-Wave-Technology (Beam) Program." (a Discovery Park award - Birck Nanotechnology Center)

Bhave, Sunil A; electrical & computer engineering, from U.S. Department of Interior, \$633,026, "MCOQA: Mechanically-Driven, Coherence-Enhanced Quantum Angle Sensor, Inc, Grant 15200066."

Bianchi, Antonio; computer science, from Google Inc, \$3,000, "Multi Sponsor Voluntary Support."

Bigelow, Cale A; horticulture & landscape architecture, from Ocean Organics Corporation, \$4,000, "Putting Greens Research."

Biswas, Rudro R; physics & astronomy, from Sandia National Laboratories, \$17,900, "From Superconducting Circuits to Reversible Computing."

Bouman, Charles A; electrical & computer engineering, from Oak Ridge National Laboratory, \$95,000, "Intelligent Acquisition and Reconstruction for Hyperspectral Tomography."

Bowman, Aaron B and Yang, Yang; health sciences, medicinal chemistry & molecular pharmacology, from Vanderbilt University Medical Center, \$58,742, "Manganese Exposure Susceptibility as a Modifier of Excitotoxicity in Alzheimer's Disease (Grant 11000975 Amendment #2)."

Braun, James E; mechanical engineering, from The Trane Co, \$25,000, "Center for High Performance Building Consortium; Trane Technology Corp."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$475,000, "JTRP Admin. Budget FY 2022."

Casteel, Shaun N; agronomy, from Sulvaris Inc, \$8,000, "Soybean Extension Research."

Chan, Stanley H; electrical & computer engineering, from Intel Corporation, \$10,000, "Multi Sponsor - Voluntary Support."

Chen, Weinong W; aeronautics & astronautics, from University of Delaware, \$16,500, "Real Time Damage Visualization in Composites."

Chopra, Gaurav and Kenttamaa, Hilikka I; chemistry, from Center for Bioanalytic Metrology, \$100,000, "Fully Autonomous Hplc/Msn Interpretable Machine Learning Platform."

Connor, Robert J; civil engineering, from Kraemer North America, \$1,000, "Voluntary Support for R. Connor."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$25,000, "Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center (Grant 21000236)."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$25,000, "Increase (3): Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center (21000236)."

Connor, Robert J; civil engineering, from Indiana Department of Transportation, \$130,000, "Steel Bridge Research, Inspection, Training and Education Engineering Center (S-BRITE)."

Cooks to Goergen

Cooks, Robert Graham; chemistry, from FLIR Systems Inc, \$297,175, "Flir Portable Mass Spectrometer for Environmental Monitoring."

Cooks, Robert Graham; chemistry, from PHS-NIH National Cancer Institute, \$378,398, "Advanced Development of Desorption Electrospray Ionization Mass Spectrometry for Intraoperative Molecular Diagnosis of Brain Cancer Using Pathology Biopsies (Grant 11000995)."

Couetil, Laurent L; Ivester, Kathleen M; Burgess, John R; Moore, George E; Olave, Carla and Park, Jae Hong; veterinary clinical sciences, nutrition science, veterinary medicine administration, health sciences, from Grayson-Jockey Club Res. Foundation, Inc., \$210,016, "The Effect of Omega-3 Fatty Acid Supplementation in Thoroughbred Racehorses with Equine Asthma."

Courtney, Andrea L; public health, from Johns Hopkins University Center for Alternatives to Animal Testing, \$6,900, "Multi Sponsor."

Creighton, John C; biological sciences, from Brigham Young University, \$2,500, "Species Effects on Stable Isotope Signatures in Burying Beetle."

Cunningham, Robin E; Purdue Online Administration, from Indiana Commission for Higher Education, \$5,000, "CARES Mental Health Programs."

Delaurentis, Daniel A; aeronautics & astronautics, from Science Applications International, \$16,000, "SAIC GXT CPS AHT Advance Hypersonics Technology (Grant 13000945; Modification #2)."

Delaurentis, Daniel A; aeronautics & astronautics, from Defense Advanced Research Projects Agency, \$257,250, "Learning to Game-break (L2G); Modification 2; Grant 13000883."

Delaurentis, Daniel A and Ezra, Kristopher L; aeronautics & astronautics, from Science Applications International, \$7,000, "Strategic Missions Systems Engineering Division (GXT) Engineering and Administrative Support - NEMS - F3018." (a Discovery Park award - Institute for Global Security and Defense Innovation)

Delp, Edward J; electrical & computer engineering, from Air Force Research Laboratory, \$886,427, "Modification 2: Discover: a Data-Driven Integrated Approach for Semantic Inconsistencies Verification (13000934)."

Delp, Edward J and Comer, Mary L; electrical & computer engineering, from Lockheed Martin Corp., \$99,000, "Multi-Entity Activity Characterization (Grant 40002200)."

Dey, Tamal Krishna; computer science, from Ohio State University, \$70,633, "Tripods+X:Res: Collaborative Research: Improving Templated Microstructures via Topological Data Analysis."

Duerstock, Bradley S; biomedical engineering, from Indiana State Department of Health, \$80,000, "Diagnosing Autonomic Dysreflexia after Spinal Cord Injury through Physiological Sensing and Machine Learning, Amendment 1; Grant 20000435."

Dykhuzen, Emily C; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$349,125, "The Tumor Suppressive Role of PBRM1, the Bromodomain-Containing Subunit of the PBAF Chromatin Remodeling Complex (Grant 11000598, Amendment #4)."

Edwards, Nancy E; nursing, from Health Resources & Services Administration, \$2,249,959, "Health Center Cluster (Grant 11001005)."

Egel, Daniel S; botany & plant pathology, from Mid-America Food Processors Association, \$3,000, "Potassium Management."

Ehlers, Shawn G; Agricultural & Biological Engineering Program, from National Institute of Food and Agriculture, \$92,640, "Indiana Prepared (Purdue Rural Emergency Preparedness), Development of Targeted Rural-Disaster Specific Resources and Associated Training with Special Emphasis on Agricultural Production Sites."

Ehlers, Shawn G and Niyogi, Devdutta S; Agricultural & Biological Engineering Program, agronomy, from National Institute of Food and Agriculture, \$46,078, "Indiana Prepared (Purdue Rural Emergency Preparedness), Development of Targeted Rural-Disaster Specific Resources and Associated Training with Special Emphasis on Agricultural Production Sites."

Ekenstedt, Kari J; basic medical science, from PHS-NIH Office of the Director, \$12,536, "Novel Genetic Models for Vertebral Abnormalities (Grant 11000827)."

Eisenbaumer, Ronald L; Fort Wayne Chancellor Administration, from U.S. Department of Education, \$7,764,293, "HEERF - Crsaa - CARES Act Institutional Portion - PFW."

Engelberth, Abigail S; Agricultural & Biological Engineering Program, from Indiana Corn Marketing Council, \$57,567, "Scalable Extraction of Lutein and Zeaxanthin from WDG."

Feng, Yaohua; food science, from Michigan State University, \$571,801, "Sustainable, Systems-Based Solutions for Ensuring Low-Moisture Food Safety."

Fewer, Colin and Zamojski, Heather L; Dean of Students, Vice Chancellor Enrollment Management & Student Affairs Administration, from American Association of Collegiate Registrars and Admissions Officers, \$3,640, "Implementation of a Student Engagement & Clr Platform."

Field, William E and Jones, Paul J; Agricultural & Biological Engineering Program, from University of Illinois at Champaign-Urbana, \$30,000, "North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Support Producer Wellbeing."

Gallardo, Roberto; Purdue Center for Regional Development, from Boone County Community and Economic Development Corporation, \$1,500, "Boone County Wage & Benefits Analysis."

Gallardo, Roberto; Purdue Center for Regional Development, from University of Illinois, \$75,000, "Supporting and Empowering the Broadband Ready Program."

Garman, Christina L; computer science, from National Science Foundation, \$100,550, "CAREER: Removing the Human Element: Securing Deployed Cryptographic Systems through the Use of Cryptographic Automation."

Gkritza, Konstantina; Clawson, Rosalee A; Pekarek, Steven D; Riley, Donna M; Aliprantis, Dionysios; Haddock, John E and Bullock, Darcy M; civil engineering, political science, electrical & computer engineering, engineering education, from Utah State University, \$333,370, "Advancing Sustainability through Powered Infrastructure for Roadway Electrification (Aspire)."

Goergen, Craig J; biomedical engineering, from Institute of International Education, \$2,000, "lie Gire Advisor Payment."

Goldwasser to Jiang

Goldwasser, Dan; computer science, from National Science Foundation, \$140,662, "CAREER: Understanding Opinions by Reasoning Over Socially Grounded Language."

Gonzalvo, Jasmine D; pharmacy practice, from College of Psychiatric and Neurologic Pharmacists Foundation, \$375, "Multi Sponsor."

Gounder, Rajamani P; chemical engineering, from Multi-Sponsored Industrials, \$1,500, "Multi Sponsor - Voluntary Support."

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

Grant, Richard H; agronomy, from Lake Michigan Air Directors Consortium, \$2,500, "Mercury Deposition Monitoring at Vincennes, IN."

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

Guan, Wenjing; horticulture & landscape architecture, from Seedway, \$1,500, "General Research Activities."

Gupta, Sumeet Kumar and Raghunathan, Anand; electrical & computer engineering, from Army Research Office, \$100,000, "Low Power Compact Non-Volatile Memory and IN-Memory Compute Architectures Enabled by 2D Piezoelectric Transistors."

Hamaker, Bruce R and Ricker-Gilbert, Jacob E; food science, agricultural economics, from Agency for International Development, \$1,000,000, "Phase II - Sustainable Reduction of Post-Harvest Losses in Feed the Future Countries through Technologies and Innovations that Link Farmers to Markets: Focus on Kenya and Senegal."

Hartman, Nathan W; computer graphics technology, from QEE-Composites INC, \$4,996, "Scanning Methods for Bicycle Battery Case."

Hassanein, Ahmed; nuclear engineering, from Hamamatsu Photonics, \$38,100, "Multi Sponsors - Voluntary Support."

Hendrix, Gena Kenitra and Bowen, Craig L; comparative pathobiology, Animal Disease Diagnostic Laboratory, from Animal Plant Health Inspection Service, \$10,450, "Establishing Messaging through Newly Acquired Orchard Sequoia Lims."

Hertel, Thomas W; agricultural economics, from Beijing DRCNET Information Co., Ltd, \$40,870, "GTAP Consortium (Drc)."

Hertel, Thomas W; agricultural economics, from Environmental Protection Agency, \$40,870, "GTAP Consortium; Grant 40001186."

Hertel, Thomas W; agricultural economics, from International Food Policy Research Institute, \$20,435, "GTAP Consortium, International Food Policy Research Institute, Grant 40001186."

Higley, James B; engineering technology, from PMMI Foundation, \$6,715, "Mobile Packaging Machinery Training and Service System."

Hill, John E; educational studies, from Ball State University, \$143,558, "Hoosier STEM Academy Program 2019-2021 - Year 2 2020 - 2021."

Hill, Michael A; Center for Environmental and Regulatory Information Systems, from Animal Plant Health Inspection Service, \$372,210, "Cooperative Agricultural Pest Survey Information Services (Capsis) FY 21."

Hoagland, Lori A; horticulture & landscape architecture, from Environmental Defense Fund, \$30,000, "Best Practices for Reducing

Heavy Metal Contamination in Carrots and Quinoa."

Hook, Tomas O and Collingsworth, Paris D; forestry & natural resources, from U.S. Geological Survey, \$60,584, "Understanding and Forecasting Potential Recruitment of Lake Michigan Fishes by Modeling Growth and Survival of Larval Stages with Coupled Climate, Biophysical, and Bioenergetics Models."

Hook, Tomas O; Carlton, Joshua S; Foley, Carolyn J and Gunn, Megan L; forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Adm, \$1,357,927, "2018-2022 IISG Omnibus Proposal."

Horgan, Briony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$15,000, "Signatures of Basalt Weathering Under Cold and Icy Conditions on Mars - Fellowship for Noel Scudder."

Howell, Kathleen; aeronautics & astronautics, from University of Alabama, \$15,000, "Asset: Astrodynamics Software and Science Enabling Tool; Amendment 1; Grant 12000321."

Huang, Fang; biomedical engineering, from Indiana University School of Medicine, \$92,784, "2021-23 Joint MDPH Program Graduate Support - Madeline McLaughlin."

Jacob, Zubin; Li, Tongcang; Lu, Na; Rahman, Rajib and Xuan, Yi; electrical & computer engineering, physics & astronomy, civil engineering, biomedical engineering, from Defense Advanced Research Projects Agency, \$1,166,059, "Designing Quantum Fluctuational Meta-Molecules for Giant Cooperative Light-Matter Interaction Beyond Spectral Boundaries; Modification 6; Grant 13000678." (a Discovery Park award - Birck Nanotechnology Center)

Jacob, Zubin; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$478,000, "Development of Ultrafast Cameras for Quantum Heat Assisted Detection and Ranging (Q-Hadar), Amendment 1; Grant 13000998."

Jacob, Zubin and Bhave, Sunil A; electrical & computer engineering, from Defense Advanced Research Projects Agency, \$432,920, "High Temperature Hybrid Metamaterials for Thermal Dual-Barrier Coatings; Modification 3; Grant 13000972." (a Discovery Park award - Birck Nanotechnology Center)

Jacobs, Douglass F and Ginzel, Matthew D; forestry & natural resources, from National Science Foundation, \$89,664, "Phase III IUCRC Purdue University: Center for Advanced Forestry Systems (CAFS) (Grant 10001630)."

Jagannathan, Suresh; computer science, from Galois, Inc, \$23,338, "SPARTA - the Secure Parser Toolkit for Assurance Amendment#6; Grant 13000753."

Jagannathan, Suresh; computer science, from Galois, Inc, \$70,013, "SPARTA - the Secure Parser Toolkit for Assurance; Amendment#7; Grant 13000753 (SPARTA/Safedocs - Subcontract #2019-016, Modification 7)."

Janjigian, Christopher; mathematics, from National Science Foundation, \$131,222, "Random Walks in Random Potentials."

Jiang, Wen; biological sciences, from Indiana University, \$12,979, "Atomic Models of Human Tau Filaments and Development of Tau Ligands (Grant 11001063 Amendment#4)."

Johal to Lister

Johal, Gurmukh S; botany & plant pathology, from The Agricultural Alumni Seed Improvement, \$5,000, "Johal Voluntary Support."

Johnson, William G; botany & plant pathology, from Syngenta Crop Protection Inc., \$8,500, "Weed Science Research."

Jun, Martin Byung-Guk; mechanical engineering, from Namho Choe, \$10,000, "Multi Sponsor."

Jung, Jinha; civil engineering, from Shin, Daeho, \$6,000, "Multi Sponsor."

Karabiyik, Umit and Dietz, James Eric; computer information technology, from Lockheed Martin Corp., \$210,465, "Lockheed Martin- Purdue Collaborative Project."

Karcher, Darrin M; Erasmus, Marisa A and Abraham, Meagan Elise; animal sciences, from University of Minnesota, \$14,962, "Establishing Pullet Welfare Measurements and Guidelines for Growers and Managers on Commercial Poultry Farms."

Karcher, Elizabeth L and Karcher, Darrin M; animal sciences, from Agricultural Research Service, \$300,001, "US-Uk Collab: Combined Influence of Imperfect Vaccines and Vaccination Practices, Host Genetics, and Pathogen Mutation Rates on the Epidemiological-Evolutionary Dynamics of Infectious Diseases."

Kasinski, Andrea L and Soto-Vargas, Zulaida; biological sciences, from PHS-NIH National Cancer Institute, \$46,036, "Mechanisms of Secretion and Uptake of Small Extracellular Vesicles (Sevs) in Non-Small Cell Lung Cancer (NSCLC)."

Keon, Thomas L; Chancellor Administration, from U.S. Department of Education, \$7,681,852, "HEERF - Crrsaa - CARES Act Institutional Portion_ PNW."

Key, Nicole L; mechanical engineering, from Rolls-Royce Corporation, \$283,204, "P3s - Cantilevered Stator Mapping."

Key, Nicole L; mechanical engineering, from Office of Naval Research, \$424,496, "Research on Casing Treatments for Performance Enhancement of High-Speed Fans, Modification 2; Grant 13000783."

Kihara, Daisuke; biological sciences, from Higher Education Commission Pakistan, \$3,467, "Bench Fee for Sadam Munawar."

Kim, Kee Hong; Ajuwon, Kolapo; Bhunia, Arun K; Buhman, Kimberly K; Cross, Tzu Wen L; Hamaker, Bruce R; Lindemann, Stephen R; Olson, Matthew and Reddivari, Lavanya; food science, animal sciences, nutrition science, biological sciences, from National Institute of Food and Agriculture, \$238,500, "Food Science Approach to Enhancing Gut Health."

Kim, Seungjin; nuclear engineering, from Idaho National Laboratory, \$37,500, "Experimental Study and CFD Design Tool Development for the Cartridge Loop in the Versatile Test Reactor - Increase Grant 14000435."

Kim, Young L; biomedical engineering, from Rural Dev Administration of the Republic of Korea, \$2,000, "Development of Security Technologies Using Fluorescent Silk for Anti-Counterfeiting of Medicines."

Kingsbury, Bruce A; Arts & Sciences Administration, from DLZ Michigan, Inc, \$119,000, "Exploring the Demographics of Blanding's Turtles (*Emydoidea blandingii*) and Wood Turtles (*Glyptemys insculpta*) Populations at Camp Grayling (Grant 40003199)."

Kreisle, Regina A; comparative pathobiology, from Indiana University, \$5,000, "FY 21 IUSM - Lafayette Life Cycle Fund (Increase for Grant 40003098)."

Kuang, Shihuan; animal sciences, from National Institutes of Health, \$306,900, "PTEN Function in Satellite Cells (Grant 11000579)."

Kuang, Shihuan and Oprescu, Stephanie; animal sciences, biological sciences, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$37,923, "Year 2 Funding: Sox11 Function in Muscle STEM Cells (11000986)."

Kung, Yk Hei Frank; Jesiek, Brent K; Acheson-Clair, Kris and Woo, Sang Eun; psychological sciences, electrical & computer engineering, International Programs Administration, from National Science Foundation, \$299,974, "Developing a Cultural Mindset Module for Improving Multicultural Engineering Team Effectiveness."

Ladisch, Michael R; Sharma, Pankaj; Ximenes, Eduardo A; Ardekani, Arezoo Motavalizadeh; Erk, Kendra A; Gonzalez, Marcial; Mosier, Nathan S; Wassgren, Carl R; Ambrose, Rose Prabin Kingsly and Engelberth, Abigail S; Agricultural & Biological Engineering Program, engineering technology, mechanical engineering, materials engineering, from U.S. Department of Energy, \$721,745, "Modeling Feedstock Performance and Conversion Operations, Inc, Grant 14000519."

Lewis, Melissa J and Thomovsky, Stephanie A; veterinary clinical sciences, from American Association of Rehabilitation Veterinarians, \$2,500, "Pilot Study on Feasibility of Sensory-Enhanced Rehabilitation in CANINE Spinal Cord Injury."

Li, Tongcang; electrical & computer engineering, from Sandia National Laboratories, \$75,000, "Levitated Dielectrics and Advanced Proof Masses for Sensors."

Li, Tongcang and Robicheaux, Francis J; electrical & computer engineering, physics & astronomy, from Office of Naval Research, \$313,126, "Investigating Surface Interactions with Levitated Optomechanics at the Quantum Limit."

Liceaga, Andrea M; food science, from Simulate, Inc., \$1,500, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Heartland Food Products Group, \$1,500, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Gaudet, \$3,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Simulate, Inc., \$3,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from Iovate Health Sciences Inc, \$6,000, "Multi Sponsored Gift- Sensory."

Lin, Guang; mechanical engineering, from Brookhaven National Laboratory, \$100,000, "A Deep Learning-Based Online Platform for Critical Anomaly Detection and Emergency Control to Enhance Grid Reliability and Resiliency."

Lindemann, Stephen R; food science, from CP Kelco US Inc, \$32,022, "Consumption of Gellan Oligomers by the Human Gut Microbiome."

Lister, Matthew L; physics & astronomy, from National Aeronautics and Space Administration, \$145,690, "Mojave: Probing Acceleration, Magnetic Field Evolution and Gamma-Ray Emission in AGN Jets; Supplement 1."

Long to Okuniewski

Long, Elizabeth Yim and Justus, Emily J; entomology, from University of Minnesota, \$13,588, "Assessing Growers' Knowledge and Use of Insect Resistant Cultivars as Part of an Integrated Pest Management Strategy."

Long, Elizabeth Yim and Richmond, Douglas Scott; entomology, from Indiana State Department of Agriculture, \$58,134, "Developing Best Management Practices for the Asiatic Garden Beetle in Commercial Mint Production."

Love, David J and Brinton, Christopher Greg; electrical & computer engineering, from Massachusetts Institute of Tech Lincoln Lab, \$156,158, "Machine Learning Techniques for Future Satellite Communication Networks."

Low, Philip S; chemistry, from MorphImmune, Inc, \$50,000, "Multi Sponsor - Voluntary Support."

Low, Philip S; Shahriar, Imrul and Srinivasarao, Madduri; chemistry, from Eradivir, Inc, \$70,000, "STTR Phase I: Eradivir's Therapeutic Molecule for COVID-19."

Lu, Na; civil engineering, from Trask Trust Fund, \$50,000, "Prototyping Piezoelectric Sensing Device for Real-Time Concrete Strength Monitoring."

Ma, Zhao; forestry & natural resources, from US Forest Service, \$10,000, "USDA Forestry Service Seedling Production."

MacDermid Wadsworth, Shelley; Topp, Dave and Eicher-Miller, Heather A; human development & family studies, Military Family Research Institute Conference, nutrition science, from Robert R. McCormick Foundation, \$50,000, "Reaching Rural Veterans in Illinois."

Mahmoudian, Nina and Rastgaar, Mo; mechanical engineering, engineering technology, from Office of Naval Research, \$80,000, "A Modular Undersea Infrastructure for Uuv Delivery and Replenishment."

Maji, Hemanta K; computer science, from National Science Foundation, \$500,000, "SaTC: CORE: Small: Optimal Coin-Flipping Protocols."

Marshall, Maria I; agricultural economics, from American Soybean Association, \$101,221, "Proposal to Develop and Implement a Course on Business Plan Development for Elite Entrepreneurs From developing and Emerging Markets."

Mayer, Theresa Stellwag; Executive Vice President for Research and Partnerships Administration, from Lockheed Martin Corp., \$40,000, "Grin Diamond-Like-Carbon (Dlc) Coatings."

Mayer, Theresa Stellwag; electrical & computer engineering, from Lockheed Martin Corp., \$40,000, "Grin Diamond-Like-Carbon (Dlc) Coatings."

McCann, Maureen C; Agrawal, Rakesh; Huettelman, Carl A; Mosier, Nathan S; Kenttamaa, Hilka I; Meilan, Richard; Carpita, Nicholas C; Chapple, Clint C S and Ribeiro, Fabio H; biological sciences, chemical engineering, engineering administration, Agricultural & Biological Engineering Program, chemistry, forestry & natural resources, botany & plant pathology, biochemistry, from U.S. Department of Energy, \$10,000, "Center for Direct Catalytic Conversion of Biomass to Biofuels (C3Bio) (Grant 14000231)."

McLuckey, Scott A; chemistry, from PHS-NIH National Institute of General Medical Science, \$32,750, "Gas-Phase Bio-Conjugation in the Tandem Mass Spectrometry of Peptides, Proteins, and Protein Complexes (Grant 11000826)."

McMillan, Sara K; Agricultural & Biological Engineering Program, from University of Minnesota, \$14,838, "Design and Management of on-Farm Wetlands for Water Quality and Climate Regulation."

Mei, Jianguo; chemistry, from Office of Naval Research, \$170,907, "High Temperature Organic Semiconductors, Modification 2; Grant 13000715."

Meyer, Scott E; mechanical engineering, from InSpace, LLC, \$29,930, "INSpace Propulsion System Tank Testing Budget Spring/Summer 2021."

Miles, Richard D; WBAA Administration, from Corporation for Public Broadcasting, \$139,698, "2021 CPB Community Service Grant (Csg)."

Mishra, Dharmendra K; food science, from Keith & Nicole Fleming, \$100, "Pilot Plant Multi-Sponsored Gift."

Mishra, Dharmendra K; food science, from Mead Johnson Nutritionals, \$8,000, "Indicator Strips for Validation of Filler."

Mohammadi, Mohsen; agronomy, from Agricultural Research Service, \$6,288, "Genetics of Resistance to Septoria Diseases in Wheat."

Moore, Karina Beth; field extension, from Orange Co REMC Fund, Inc, \$1,000, "Co-Parenting for Successful Kids."

Mou, Shaoshuai; aeronautics & astronautics, from Arctos Technology Solutions, LLC, \$11,223, "Distributed Multi-Agent Mission Planning in Dynamic Environments."

Mou, Shaoshuai; aeronautics & astronautics, from Arctos Technology Solutions, LLC, \$30,000, "Distributed Multi-Agent Mission Planning in Dynamic Environments."

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$624,938, "Reduced Gravity Experiments to Measure Cryogenic Two-Phase Heat Transfer Coefficients for Future IN-Space Transfer Systems."

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, \$75,000, "Electrochemical and Transport Evolution Dynamics in Sodium-Sulfur Electrodes (Grant 13000788)."

Mukherjee, Partha P; mechanical engineering, from Nissan Research & Development, Inc., \$150,000, "Theoretical Understanding of Effective Interlayer Functions in All-Solid-State Battery with Li-Metal Anode."

Mull, Casey Downs and Scott, Molley M; Cooperative Extension Service - 4-H, field extension, from National 4-H Council, \$16,000, "2021 4-H Ag Innovators Experience Implementation."

Nagy, Zoltan; chemical engineering, from International Fine Particle Research Institute INC, \$14,000, "IFPRI Gift."

Newton, Ryan R; electrical & computer engineering, from National Science Foundation, \$217,108, "SHF:Small: Collaborative Research: Language-Integrated Verification for Deterministic Parallelism."

Nie, Linda H; health sciences, from University of California - San Diego, \$151,096, "Sodium Regulation in Individuals on Known Dietary Sodium Intake (Grant 11001004)."

Okuniewski, Maria A; Harris, Jason T and Tomar, Vikas; materials engineering, health sciences, aeronautics & astronautics, from Idaho National Laboratory, \$87,500, "A Reconfigurable Mechanical Properties Testing Vehicle Instrumented with Novel Sensors."

Pace to Sandhage

Pace, William M; Polytechnic South Bend, from enFocus, \$187,780, "Technology & Demonstration Center/Studebaker Bldg."

Paniagua-Perez, Guillermo; mechanical engineering, from Office of Naval Research, \$100,000, "Modulated Enhancement of Heat Exchangers - MEHEX; Modification 2; Grant 13000770."

Paniagua-Perez, Guillermo; mechanical engineering, from MBDA France, \$243,781, "Compact Expansion Machine for Supersonic Flows."

Pastakia, Sonak D; pharmacy practice, from New York University, \$54,024, "Pt4a (Peers and Technology for Adherence, Access, Accountability, and Analytics)."

Patton, Aaron J; horticulture & landscape architecture, from United States Golf Association, \$4,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture & landscape architecture, from FMC Corporation, \$6,000, "Patton Multi Sponsored #2 (Orig 301226)."

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$8,059, "Midwest Regional Turf Foundation."

Patton, Aaron J; horticulture & landscape architecture, from Rutgers State University, \$14,282, "Understanding False-Green Kyllinga Biology for Integrated Management in Cool-Season Turf."

Patton, Aaron J; horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$33,500, "Turfgrass Research."

Phillips, Margaret L and McPherson, Paul B; libraries administration, engineering technology, from American Society for Engineering Educ, \$2,500, "Exploring Standards Access and Education in ET Programs."

Piercey, Davin G; materials engineering, from Office of Naval Research, \$177,145, "Enabling Methods in Next-Generation Energetic Materials Synthesis; Modification 2; Grant 13000724."

Pinal, Rodolfo; industrial & physical pharmacy, from Multi-Sponsored Industrials, \$40,000, "Center for Pharmaceutical Processing Research Consortium."

Pittendrigh, Barry Robert; entomology, from University of Illinois at Champaign-Urbana, \$30,000, "I2i - Innovation to Impact."

Pol, Vilas G; chemical engineering, from Office of Naval Research, \$121,679, "Scalable Manufacturing of Safer, Energy Dense Li-Ion Batteries for Critical Temperature Defense Application."

Pol, Vilas G; chemical engineering, from Office of Naval Research, \$128,321, "Scalable Manufacturing of Safer, Energy Dense Li-Ion Batteries for Critical Temperature Defense Application (Grant 13001006)."

Pourpoint, Timothee L; Gore, Jay P; Qiao, Li and Weibel, Justin A; aeronautics & astronautics, mechanical engineering, from Rolls-Royce Corporation, \$474,000, "University Technology Center in Advanced Thermal Management Systems at Purdue University (Grant 40002556)."

Prokopy, Linda S; forestry & natural resources, from U.S. Geological Survey, \$79,195, "Using Data from a Popular Fishing App to Predict the Spread of Aquatic Invasives and Identify Characteristics of Resistant/Resilient Lakes in the Upper Mississippi River Basin."

Purpura, Ashley M; interdisciplinary programs, from Interfaith Youth Core, \$20,000, "Civic Approaches to Teaching About Religious Diversity in General Education Grant."

Qiu, Qiang; electrical & computer engineering, from University of Massachusetts, \$7,500, "CDS&E: Applied Geometry and Harmonic Analysis in Deep Learning Regularization: Theory and Applications Qiu."

Rahimi, Rahim; materials engineering, from IdentifySensors Biologics Corp, \$85,860, "Printed Biosensors for Identifysensors." (a Discovery Park award - Birck Nanotechnology Center)

Ramanathan, Shriram; materials engineering, from Pennsylvania State University, \$115,000, "Center for 3-D Ferroelectric Microelectronics."

Raturi, Ankita; Agricultural & Biological Engineering Program, from Wolfe's Neck Center, \$245,451, "Open Technology Ecosystem for Agricultural Management (Openteam)."

Ribeiro, Fabio H; chemical engineering, from Multi-Sponsored Industrials, \$5,000, "CISTAR Industrial Consortium."

Ribeiro, Fabio H; Agrawal, Rakesh; Gounder, Rajamani P; Greeley, Jeffrey P; Miller, Jeffrey T; Sirola, Jeffrey J and Delgass, W Nicholas; chemical engineering, from National Science Foundation, \$110,000, "Engineering Research Center for Innovative and Strategic Transformation of Alkane Resources - CISTAR; Modification 15 (10001437)."

Ricker-Gilbert, Jacob E; Burniske, Gary R; Gunaratna, Nilupa S; Shively, Gerald E; Blatchley, Ernest R; Buckmaster, Dennis; Gitau, Margaret W; Harbison, Diana; Huber, Matthew; Jafvert, Chad T; McMillan, Sara K; Raturi, Ankita; Sinfield, Joseph V; van der Mensbrugghe, Dominique Y and Walz, Aaron J; agricultural economics, agronomy, public health, International Programs in Agriculture, civil engineering, Agricultural & Biological Engineering Program, Global Engineering Programs, earth, atmospheric, & planetary sciences, agricultural research & graduate education, from Michigan State University, \$49,667, "Learning, Analytics and Knowledge Management Support in Kenya and East Africa Region."

Ridgway, Kenneth D; earth, atmospheric, & planetary sciences, from The Blackbaud Giving Fund for Chevron, \$3,000, "Cearley Basin Analysis Fund-Voluntary Support."

Ridgway, Kenneth D; earth, atmospheric, & planetary sciences, from James B Cearley III, \$5,000, "Cearley Basin Analysis Fund-Voluntary Support."

Rogers, Timothy G; electrical & computer engineering, from University of Michigan, \$270,000, "Applications Driving Architectures (Ada) Center - Leveraging Software Engineering Design Principals to Generate Efficient Hardware, Inc, Grant 13000793."

Sadeghi, Farshid; mechanical engineering, from Toyota Motor Manufacturing Inc., \$90,000, "Tribology Lab Research (40002987)."

Sadeghi, Farshid; mechanical engineering, from Cummins, Inc., \$135,000, "Tribology Lab Research, Cummins."

Salazar, Kara A; Illinois-Indiana Sea Grant, from Hoosiers for Renewables, \$10,000, "Voluntary Support- Salazar."

Sandhage, Kenneth H; materials engineering, from Virginia Commonwealth University, \$206,561, "Mechanisms Mediating Osseointegration of 3-D Printed Titanium Constructs, Amendment 3; Grant 11000849."

Saraswat to Turco

Saraswat, Dharmendra and Hancock, Benjamin G; Agricultural & Biological Engineering Program, from Indiana Corn Marketing Council, \$1,194, "Updating Infield Advantage Web Application-Phase III."

Savoie, Brett; chemical engineering, from National Science Foundation, \$413,174, "CAREER: Chemical Network Based Understanding and Prediction of Electrolyte Decomposition in Batteries."

Scalo, Carlo; mechanical engineering, from VorCat, Inc, \$45,000, "Code-to-Code Verification of Breakdown to Turbulence in Canonical Vortex-Dominated Problems."

Schwab, Abraham P; Academic Affairs Administration, from University of Indianapolis, \$106,507, "Teach Dual Credit Indiana."

Semperlotti, Fabio; mechanical engineering, from Office of Naval Research, \$190,655, "Modification 1: Shape-Memory-Alloy Meta-Composites: Harnessing Material and Topological Phase Transitions to Achieve Resilient and Tunable Lightweight Structures (13000911)."

Shakouri, Ali; computer science, from Multi-Sponsored Industrials, \$35,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)." (a Discovery Park award - Birck Nanotechnology Center)

Shalaev, Vladimir M; electrical & computer engineering, from University of Michigan, \$122,910, "Near-Field Radiative Heat Transfer and Energy Conversion in Nanogaps of Nano- and Meta-Structured Materials; Amendment 3; Grant 13000775." (a Discovery Park award - Birck Nanotechnology Center)

Shashurin, Alexey and Slipchenko, Mikhail N; aeronautics & astronautics, mechanical engineering, from National Science Foundation, \$116,535, "Collaborative Research: Exploring Plasma Dynamics at Femtosecond Laser-Induced Photoionization from Near to Mid-Infrared (Grant 10001500)."

Short, Tonya S; field extension, from University of Illinois at Champaign-Urbana, \$130,000, "North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Supplementport Producer Wellbeing."

Silaen, Armin K and Walla, Nicholas; Center for Innovation through Visualization and Simulation, from Gerdau Special Steel, \$19,619, "Evaluation of Refining Ladle Operations."

Simpson, Garth J and Taylor, Lynne S; chemistry, industrial & physical pharmacy, from Center for Bioanalytic Metrology, \$50,000, "Phase Separation in Pharmaceutical Formulations by Two-Photon Excited Uv Fluorescence Correlation Spectroscopy."

Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, \$100,000, "X-Ray Radiography System for Spatio-Temporally Resolved Solid Fuel Regression Measurements."

Slabaugh, Carson D; aeronautics & astronautics, from Office of Naval Research, \$160,290, "Transport Physics in Reacting Turbulent Boundary Layers, Modification 1; Grant 13000875."

Snow, Lowell D; Technical Assistance Program/ Manufacturing Extension Partnership, from CenterPoint Energy Foundation, \$150,000, "Purdue MEP Opportunity in Manufacturing Initiative."

Snyder, Margie E and Murawski, Matthew M; pharmacy practice, from PHS-Agency for Healthcare Research & Quality, \$420,867, "An Evaluation of the Spread and Scale of Patienttoc from Primary Care to Community Pharmacy Practice for the Collection of Patient-Reported Outcomes."

Sohal, Ikjot Singh; Kasinski, Andrea L; Low, Philip S and Ratliff, Timothy L; biological sciences, chemistry, comparative pathobiology, from US Army Medical Res Acquisition, \$465,000, "Ligand-Targeted miRNA Delivery for Prostate Cancer Therapy."

Solorio, Luis; biomedical engineering, from Institute of International Education, \$2,000, "lie Gire Advisor Payment."

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, \$33,770, "High-Frequency Surface and Near-Surface Temperature Measurements of Burning Solids - Fellowship for Westphal, Inc, Grant 12000207."

Son, Steven F and Rhoads, Jeffrey Frederick; mechanical engineering, from Next Offset Solutions, \$13,211, "Embrs: Energetic Material Battery and Reserve Power Systems."

Stahelin, Robert V; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute Allergy Infectious Disorders, \$251,250, "Investigation of the Role of Phosphatidic Acid Metabolism in Filovirus Budding; Amendment 1; Grant 11000982."

Su, Jianxi; statistics, from Casualty Actuarial Society, \$18,000, "Spatial Temporal Modeling of Wildfire Losses with Applications in Insurance Linked Securities Pricing."

Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from Advanced Research Projects Agency - Energy, \$134,133, "Resilient Self-Healing Transformers."

Sun, Wei; quantitative methods, from Office of Naval Research, \$16,114, "Statistical Theory and Method of Large Tensor Data (Grant 13000667)."

Taylor, Lynne S; industrial & physical pharmacy, from Merck Sharp & Dohme Corp, \$106,729, "Microprecipitation to Produce Amorphous Formulations."

Thompson, Michelle S and Horgan, Briony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$120,544, "Investigating the Role of Sulfides and Fe-Oxide Minerals in the Space Weathering of Asteroidal Regoliths (Grant 12000382)."

Tomar, Vikas and Adams, Thomas E; aeronautics & astronautics, nuclear engineering, from Naval Surface Warfare Center Indian Head Division, \$150,000, "Naval Education Ecosystem Design for Battery Pack Agnostic Intelligent Battery Management Systems [Grant 13000873]."

Tormoehlen, Roger L; Agricultural & Biological Engineering Program, from John Deere US Ag, \$2,500, "Multi Sponsored Gift."

Tremblay, Marissa Marie; earth, atmospheric, & planetary sciences, from American Chemical Society, \$110,000, "Investigating the (U-Th)/He Systematics of Gar Scales and its Potential for Basin Thermal History Reconstruction."

Trice, Rodney W and Martinez, Carlos J; materials engineering, from Office of Naval Research, \$120,718, "Design and Evaluation of Rare-Earth Co-Stabilized Cubic Zirconia for Hypersonic Flight, Modification 1; Grant 13000876."

Turco, Ronald F; agronomy, from University of Wisconsin, \$185,000, "Linking Soil Health Assessment to Edge-of-Field Water Quality in the Great Lakes Basin- Project Continuation."

Ursem to Zikas

Ursem, Michael D; engineering administration, from Engineering & Industrial Services, LLC, \$1,500, "Services Agreement for Engineering & Industrial Services, LLC - Project 1, Cam Assistance."

Varma, Amit H and Seo, Jungil; civil engineering, from Veolia Water Technologies, Inc., \$150,000, "Experimental and Numerical Evaluation of Reinforced Concrete Pier and Pass-through Connection of Kcl-3 Structure - Phase III."

Wang, Nien-hwa L; chemical engineering, from Medallion Research USA, Inc., \$450,000, "Testing of Ligand-Assisted Chromatography Methods for Producing High-Purity Rare Earth Elements from Feedstocks Derived from Monazite and Other Minerals."

Weber, Zachary A; pharmacy practice, from Indiana University, \$50,613, "IU Mou."

Wei, Alexander; chemistry, from Sartorius Stedim North America, \$74,000, "Design of Non-Enzymatic Lactate Sensor on Flexible Substrates for Single-Use Systems."

Weibel, Justin A; mechanical engineering, from Laird Technologies, \$7,500, "Cooling Technologies Research Center (CTRC)."

Weiner, Andrew M; electrical & computer engineering, from Freedom Photonics, LLC., \$95,000, "Quantum All-Optical Transponder (Qoat)."

Weiner, Andrew M and Qi, Minghao; electrical & computer engineering, from Sandia National Laboratories, \$61,012, "Trapped-Ion Clock with Photonic Technologies on Chip (Tictoc) (Grant 14000437)."

Wharry, Janelle P; materials engineering, from National Science Foundation, \$70,842, "Collaborative Research: Tunable Control of Mixed Ionic and Electronic Conductivity through Ion Irradiation in Electroceramic Materials for Energy Storage System."

Whelton, Andrew J; Proctor, Caitlin Rose and Robinson, Joseph Paul; civil engineering, Agricultural & Biological Engineering Program, basic medical science, from National Science Foundation, \$16,000, "REU Supplement: Shutdowns and Consequences - Extreme Plumbing Stagnation and Recommissioning."

Wilcox, Michael D and Adams, Nicole; Cooperative Extension Service, nursing, from University of Wisconsin-Madison, \$40,000, "A Protocol for Community Action to Address Substance Use."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$112,519, "Year 3 Funding: Making Higher Performance Adhesives that Are Charged, Debondable, and Tough (13000749)."

Won, You-Yeon; chemical engineering, from Spirrow Therapeutics LLC, \$67,500, "COVID-19: Acute Respiratory Distress Syndrome Polymer Surfactant Therapy."

Woolcock, Andrew D; Roque-Torres, Janet Lazara; Da Silva Serpa, Priscila Beatriz; Moore, George E and Pires dos Santos, Andrea; veterinary clinical sciences, comparative pathobiology, veterinary

medicine administration, from American College of Veterinary Internal Medicine Foundation, \$3,010, "Effect of Ascorbic Acid and Alpha-Tocopherol on Oxidative and Storage Lesions in CANINE Packed Red Blood Cells."

Xu, Dongyan; computer science, from Office of Naval Research, \$200,000, "Towards Transformation-Based Legacy Software Fitness: Usage-Driven Binary Debloating and Hardening (Phase II)."

Xu, Dongyan; computer science, from Office of Naval Research, \$1,821,488, "IoT-D: Towards Internets of Dialect-Speaking Things."

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$368,375, "Nucleolin Recognition of MYC Promoter G-Quadruplex and its Role in MYC Regulation by MycG4-Ligands; Amendment 1; Grant 11000988."

Young, Bryan G; botany & plant pathology, from Marksberry Law Office, LLC, \$3,000, "Weed Science Research Voluntary Supplementport."

Yu, Denny; Hornbeck, Tera M; Adibuzzaman, Mohammad and Haque, MD Munirul; industrial engineering, nursing, from National Science Foundation, \$16,000, "Research Experiences for Undergraduates (REU) for Fw-Htf-P: Physiological Sensing to Enable Expert Decisionmaking in Healthcare (Grant 10001616)."

Zhang, Lei; botany & plant pathology, from University of Arkansas, \$18,365, "Influence of Plant Elicitor Peptides on Plant Defense, Plant Fitness, and Productivity."

Zhang, Xiangyu; computer science, from Perspecta Labs, \$343,328, "Abs: an Analytic Approach to Scanning Neural Networks for Back-Doors by Artificial Brain Stimulation (Grant 13000916)."

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from National Institutes of Health, \$429,035, "Development of SHP2 Inhibitors for Targeted Anti-Cancer Therapy (Grant 11000580)."

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from Gerdau Special Steel, \$25,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from SSAB Americas Research and Development, \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from EVRAZ North America, \$50,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zikas, Vasileios; computer science, from National Science Foundation, \$400,000, "Collaborative Research: SaTC: CORE: Medium::from Distributed Cryptography to Blockchain and Back."

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