

June 2009 Contract and Grant Awards

American Reinvestment & Recovery Act Funding:

Ary, A.W., Szumlinski, K.K., Psychology, \$63,807, National Institute of Drug Abuse, "Prefrontal Cortex Homer2, Glutamate, and Cocaine Reward."

Chabinyk, M., Materials, \$316,755, National Science Foundation, "Collaborative Research: Characterization of the Microstructure and Charge Transport at Interfaces of Semiconducting Polymers."

Conoley, J. (Gevirtz Graduate School of Education), Wiltzius, P. (College of Letters & Science), Gevirtz Graduate School of Education Research Office, \$900,000, National Science Foundation, "CalTeach Santa Barbara."

Major, B.N., Psychology, \$36,433, National Institute of Heart, Lung & Blood, "The Effects of Perceived Discrimination on Mental and Physical Health."

Rose, K., Gibson, J.D., Electrical & Computer Engineering, \$498,363, National Science Foundation, "CIF: Small: A Unifying Framework for Aural Signal Coding."

Other Contract & Grant Awards:

Awschalom, D.D. (Physics), California NanoSystem Institute, \$100,000, UC Los Angeles, "Hewlett Packard/University of California: California NanoSystems Institute."

Blau, S.D. (Education), Gevirtz Graduate School of Education Research Office, \$28,000, UC California Writing Project, "South Coast Writing Project (CSSA)."

Blau, S.D. (Education), Gevirtz Graduate School of Education Research Office, \$46,000, National Writing Project Corporation, "Nat'l Writing Project Corporation - NWP."

Buratto, S.K. (Chemistry & Biochemistry), California NanoSystems Institute, \$180,050, Army, "Ion Conduction in Solid Electrolytes Probed with Atomic Force Microscopy."

Busby, C.J. (Earth Science), Institute for Crustal Studies, \$27,000, National Park Service, "Landscape Evolution of the Sierra Nevada, California: Paleochannels, Magnetism and Structure."

Carlson, J. (English), Center for Black Studies Research, \$14,750, UC Office of the President, "Project Excel."

Cheng, K., Electrical & Computer Engineering, \$58,000, Industrial Technology Research Institute (Taiwan), "Digitally-Assisted Analog Testing Methodology."

Clark, J.F. (Earth Science), Institute for Crustal Studies, \$38,673, Water Replenishment District of Southern California, "2009 Rio Hondo-Groundwater Tracer Study."

Clarke, K.C., Geography, \$239,974, National Geospatial Intelligence Agency, "A Real Time Immersive Virtual Reality Testbed."

Coldren, L.A., Electrical & Computer Engineering, \$33,000, Ziva Corporation, "U-VCSEL-Bridge."

Davis, F.W., Donald Bren School of Environmental Science & Management, \$92,085, Woodrow Wilson National Fellowship Foundation, "Doris Duke Conservation Fellows Program."

Doyle F.J. (Chemical Engineering), Braun, G.B. (Chemistry), Institute for Collaborative Biotechnologies, \$99,962, Army, "Systems Biology Treatments for Optimal Heat Stroke Recovery and Reset."

Dugan, J.E., Marine Science Institute, \$37,500, California Coastal Commission, "Evaluating Status and Trends in California's Sandy Beach Ecosystems."

Duran, R.P. (Education), Gevirtz Graduate School of Education Research Office, \$5,000, UC Los Angeles, "Parent and Community Involvement in Latino Academic Attainment."

Felix, E. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$151,500, National Institute of Mental Health, "Natural Disaster and Risk of Psychiatric Disorders in Puerto Rican Children."

Fleishman, E. (Marine Science Institute), Institute for Computational Earth System Science, \$204,146, Navy, "Population Consequences of Acoustic Disturbance of Marine Mammals."

Fleishman, E. (Marine Science Institute), Institute for Computational Earth System Science, \$176,073, Kresge Foundation, "Identification of Research Questions with Great Potential to Inform Conservation Policy and Investment Strategies in the United States."

Gilbert, J.R., Computer Science, \$150,000, Massachusetts Institute of Technology, "Algebraic Foundations for High-Performance Array-Based Graph Algorithms."

Goodchild, M.F., Geography, \$267,392, Army, "User-Generated Terrain Information."

Goulias, K.G., Isbell, N.A., Geography, \$11,500, Federal Highway Administration, "Eisenhower Fellowship - Nathanael Isbell."

Hannah, L. (Donald Bren School of Environmental Science & Management), Davis, F.W. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$300,000, California Energy Commission, "Advanced Modeling of the Biological Effects of Climate Change in California."

Hawker, C.J. (Materials), Materials Research Laboratory, \$234,089, Washington University, (St. Louis, MO), "Integrated Nanosystems."

Heeger, A.J. (Physics), Bazan, G.C. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$750,000, Konarka Technologies, Inc., "Accelerated Pathway toward High Efficiency Bulk Heterojunction Solar Cells."

Horowitz, G.T., Hartle, J.B., Physics, \$1,380,000, National Science Foundation, "Research in Classical and Quantum Gravity."

Lenihan, H.S., Valencia, S.R., Donald Bren School of Environmental Science & Management, \$3,000, Sea Space, "Facilitating Community Based Management: a Novel Stock Assessment Method for *Haliotis rufescens* at San Miguel Island."

Martinez, C. (Campus Outreach Initiatives), Lucas, G. (Executive Vice Chancellor), Institute for Social, Behavioral, & Economic Research, \$186,896, Ventura County Community College District, "Pathway to the Baccalaureate in STEM Fields: Realizing the Dream."

McCray, W.P. (History), Institute for Social, Behavioral, & Economic Research, \$30,000, Albert & Elaine Borchard Foundation, Inc., "Fusion: The Merging of French Politics and Culture in a Contemporary Mega-Science Project."

Metiu, H.I., Chemistry & Biochemistry, \$352,500, Air Force, "Catalysis by Atomic-Sized Centers: Methane Activation for Partial Oxidation and Combustion."

Miescher, S. (History), Bloom, P. (Film Studies), Interdisciplinary Humanities Center, \$7,500, UC Humanities Research Institute, "Revisiting Modernization."

Morrison, G. (Department of Counseling, Clinical, and School Psychology), Graduate Division, \$34,820, Department of Education, "FY 2009 Fulbright-Hays Doctoral Dissertation Research Abroad Program Application."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$900,000, Army, "Institute for Collaborative Biotechnologies - Task 11: "Improved Sensitivity Low-Cost Uncooled IR Detector Focal-Plane Arrays" (Aerospace)."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,400,000, Army, "Institute for Collaborative Biotechnologies - Task Order 17: "Systems Biology Studies of PTSD"."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$200,000, Army, "Institute for Collaborative Biotechnologies - Task Order 16 (Woods Hole)."

Nguyen, T.T. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$50,000, Alfred P. Sloan Foundation, "Alfred P. Sloan Research Fellowships - Chemistry."

Penley, C. (Film Studies), Institute for Social, Behavioral, & Economic Research, \$211,008, UC Irvine, "Digital Ocean: Sampling the Sea."

Peters, B., Chemical Engineering, \$100,000, American Chemical Society, "Mechanism of CH_3ReO_3 Activation for Olefin Metathesis on Amorphous Alumina/Silica."

Rodwell, M.J., Electrical & Computer Engineering, \$285,000, Teledyne, "Scalable Densely-Micromachined Transceiver Array."

Roux, M.M., De Tomaso, A.W., Molecular, Cellular & Developmental Biology, \$69,897, National Institute of General Medical Sciences, "Identification of Stem Cells Responsible for Germline Parasitism in *Botryllus*."

Soh, H.T. (Mechanical Engineering), Institute for Collaborative Biotechnologies, \$330,259, National Institute of Biomedical Imaging and Bioengineering, "Micromagnetic Aptamer PCR System for Ultrasensitive Multiplexed Protein Detection."

Tague, C. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$58,888, UC Institute of Geophysics and Planetary Physics, "Water Security and Climate Change."

Treu, T., Physics, \$204,070, Association of Universities for Research in Astronomy, "Luminous and Dark Matter in Disk Galaxies from Strong Lensing and Stellar Kinematics."

Vandenberg, C.A. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, \$140,000, American Heart Association-Western States Affiliate, "Molecular Characterization of Novel Cardiac Inward Rectifier Potassium Channel."

Wang, M. (Education), Gevirtz Graduate School of Education Research Office, \$50,000, Tri-Counties Regional Center (Carpinteria, CA), "Assessing Service Impact on Individual and Family Outcomes of Individuals with Developmental Disabilities: An Evaluation Project of Tri-Counties Services."

Weissglass, J. (Gevirtz Graduate School of Education), Terman, N. (Education), Gevirtz Graduate School of Education Research Office, \$18,000, UC Office of the President, "Tri-County Mathematics Project 08-09 *State."

Wilson, D.S., Marine Science Institute, \$85,451, University of Nebraska, "Modeling Antarctic Paleotopography."

Zheng, H., Computer Science, \$74,685, Intel Corporation, "Enabling Coexistence of Heterogeneous Wireless Networks."

Data provided by the Office of Research. “()” represent investigators’ home departments when those are different from the administering unit.