

July 2009 Contract and Grant Awards

American Reinvestment & Recovery Act Funding:

Bowers, M.T. (Chemistry & Biochemistry), Institute for Terahertz Science & Technology, \$730,000, National Science Foundation, "Non-Covalent Complexes."

Burbank, D.W. (Earth Science), Institute for Crustal Studies, \$282,370, National Science Foundation, "Controls on Growth of the Puna Plateau, NW Argentina."

Ettenberg, A., Psychology, \$647,662, National Institute of Drug Abuse, "Mechanisms of Opiate and Stimulant Drug Reinforcement."

Hacker, B.R. (Earth Science), Mattinson, J.M. (Earth Science), Institute for Crustal Studies, \$391,382, National Science Foundation, "The Dynamics of UHP Tectonism: Does the Western Gneiss Region Consist of Multiple (U)HP Blocks With Different Histories?"

Ji, C. (Earth Science), Archuleta, R.J. (Earth Science), Institute for Crustal Studies, \$361,394, National Science Foundation, "Kinematic and Dynamic Rupture Characterization of the 2008 Ms 8 Wenchuan Earthquake Sequence."

Lisiecki, L. (Earth Science), Marine Science Institute, \$317,113, National Science Foundation, "Climate Forcing of Atlantic Overturning Over the Last 3 Myr."

Schimel, J.P. (Ecology, Evolution & Marine Biology), Institute for Computational Earth System Science, \$313,386, National Science Foundation, "Collaborative Research: The Changing Seasonality of Tundra Nutrient Cycling: Implications for Ecosystem and Arctic System Functioning."

Schimel, J.P. (Ecology, Evolution & Marine Biology), Institute for Computational Earth System Science, \$301,642, National Science Foundation, "Collaborative Research: Environmental Changes Alter the Carbon Cycle of High Arctic Ecosystems: Shifts in the Ages and Sources of CO₂ and DOC."

Smith, W.C. (Molecular, Cellular & Developmental Biology), Manjunath, B.S. (Electrical & Computer Engineering), Neuroscience Research Institute, \$844,296, National Institute of Child Health & Human Development, "Morphomic Analysis of a Simple Chordate."

Speck, J.S., Materials, \$330,000, National Science Foundation, "Materials World Network: Growth and Characterization of Bulk Crystals and Epitaxial Films of beta-Ga₂O₃, SnO₂, In₂O₃ and ZnO."

Suri, S., Bullo, F. (Mechanical Engineering), Computer Science, \$848,000, National Science Foundation, "RI: Medium: Collaborative Research: Minimalist Mapping and Monitoring."

Other Contract & Grant Awards:

Banerjee, K., Electrical & Computer Engineering, \$450,000, National Science Foundation, "SHF: Small: A CAD Framework for Coupled Electrical-Thermal Modeling of Interconnects in 3D Integrated Circuits."

Beltz, G.E. (Mechanical Engineering), Hawker, C.J. (Materials), California NanoSystems Institute, \$972,000, UC Irvine, "California LSAMP Bridge to the Doctorate Cohort V, UCSB."

Beltz, G.E. (Mechanical Engineering), College of Engineering, \$285,630, UC MESA, "UCSB 2008-09 MESA Schools Program."

Blascovich, J.J., Psychology, \$255,396, National Science Foundation, "HHC: Small: Collaborative Research: Design and Evaluation of Socially Engaging Avatars."

Bookhagen, B. (Geography), Fisher, G.B. (Earth Science), Institute for Computational Earth System Science, \$30,000, National Aeronautics & Space Administration, "ASTER-Derived River Widths and Spatial Implications for Erosion in the Tectonically Active Himalaya."

Brown, C.J. (French & Italian), Interdisciplinary Humanities Center, \$13,988, Etant Donnes (France), "Women, Culture, and the Arts in Renaissance Europe."

Carlson, C.A. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$697,305, University of Miami, "Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014."

Church, R.L., Geography, \$40,000, US Forest Service, "Modeling Forest Management for Habitat Protection."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$50,000, County of Santa Barbara, "Sober Women and Healthy Families."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$7,643, County of Santa Barbara, "Evaluation of First Steps System of Care."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$31,000, County of Santa Barbara, "SBC ADP 09-10."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$50,000, County of Santa Barbara, "Methamphetamine Recovery Services (MARS)."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Kaminsky, I.D. (Student Health Service), Gevirtz Graduate School of Education Research Office, \$207,439, Department of Education, "UCSB CASE: Implementing and Evaluating a Model Program to Reduce High-Risk Drinking on College Campuses."

Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$20,000, County of Santa Barbara, "SBC SACPA ADP 08-09."

Cotter, P.A., Low, D.A., Molecular, Cellular & Developmental Biology, \$301,317, UC Irvine, "*Burkholderia pseudomallei* Autotransporter and TPS Proteins."

De Vries, M.S., Chemistry & Biochemistry, \$555,000, National Science Foundation, "Excited State Dynamics of DNA Base Pairs."

Downing, E., Student Health Service, \$44,000, County of Santa Barbara, "Education and Outreach to Students, Property Managers and Other Isla Vista Community Stakeholders on Binge Drinking Prevention."

Downing, E., Student Health Service, \$3,000, County of Santa Barbara, "Tobacco Cessation for Special Populations."

Dozier, J.C. (Donald Bren School of Environmental Science & Management), Rittger, K.E., Institute for Computational Earth System Science, \$30,000, National Aeronautics & Space Administration, "Improving Runoff Forecasting with Enhanced Estimates of Snow Properties."

Fleishman, E. (Marine Science Institute), Institute for Computational Earth System Science, \$50,000, Wilburforce Foundation, "Maintaining Connectivity in the Great Basin in the Face of Climate and Land-Cover Change."

Furlong, M. (Department of Counseling, Clinical, and School Psychology), Felix, E. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$135,000, County of Santa Barbara, "Evaluation of Proposition 10-Funded Activities for Santa Barbara County."

Geyer, R. (Donald Bren School of Environmental Science & Management), Stoms, D.M., Institute for Computational Earth System Science, \$218,120, National Science Foundation, "Spatially-Explicit Life Cycle Assessment Tools for Environmental Sustainability."

Goulias, K.G., Deutsch, K.E., Geography, \$35,500, Federal Highway Administration, "Eisenhower Fellowship - Kathleen Deutsch."

Gross, D.J. (Physics), Kavli Institute for Theoretical Physics, \$40,560, Air Force, "Conference on Critical Issues Related to Higher Temperature Superconductors."

Halpern, B.S., Marine Science Institute, \$43,275, University of Massachusetts, "Human Impacts Mapping."

Hannah, L. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$21,739, California Department of Forestry, "Climate Change Vegetation Model and Database Development."

Heeger, A.J. (Physics), Wudl, F. (Chemistry & Biochemistry), Institute for Collaborative Biotechnologies, \$1,300,000, General Technical Services LLC, "Toward Flexible Solar Panels with Efficiencies Greater than 10%."

Hespanha, J.P., Khammash, M. (Mechanical Engineering), Electrical & Computer Engineering, \$10,000, National Science Foundation, "Proposal for a Systems and Control Workshop."

Holden, P.A., Winneker, T.R., Donald Bren School of Environmental Science & Management, \$30,000, UC Toxic Substances Research & Teaching, "Gene Expression of *P. aeruginosa* Exposed to Cd(II) Salts and CdSe Quantum Dots."

Hollerer, T.H., Computer Science, \$28,055, Toyon Research Corporation, "High Accuracy Tracking System for Infantry Training."

Jellison, R.S., Melack, J.M. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$310,310, Los Angeles Department of Water and Power, "Proposal to Provide Professional, Scientific, Expert, and Technical Services for the Mono Lake Limnological Monitoring Program."

Koegel, R. (Department of Counseling, Clinical, and School Psychology), Koegel, L. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$51,567, County of Santa Barbara, "Early Mental Health and Other Special Needs Initiative."

Marek-Sadowska, M., Electrical & Computer Engineering, \$167,326, National Science Foundation, "Collaborative Research: SGER: Layout Generation Tools for Double-Gate-Transistor-Array-Based IC Designs."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Marine Science Institute, \$350,000, Department of Energy, "Biological and Biomimetic Low-Temperature Routes to Materials for Energy Applications."

Morton, C. (Theater & Dance), Chicano Studies Institute, \$3,724, UC Humanities Research Institute, "Teatro Tour."

Nelson, N.B., Carlson, C.A. (Ecology, Evolution & Marine Biology), Institute for Computational Earth System Science, \$773,496, NASA Shared Services Center, "Ocean Color Observations on CLIVAR: Inherent Optical Properties and Community Structure on Trans-Ocean Sections."

Pearson, J., Theater & Dance, \$10,000, Dance/USA, "American Masterpieces: Dance Marimba Project."

Pettus, T.R., Chemistry & Biochemistry, \$1,132,387, National Institute of General Medical Sciences, "The Synthesis and Application of Novel Aromatic Materials."

Reich, N.O., Chemistry & Biochemistry, \$50,000, UC Cancer Research Coordinating Committee, "Mechanistic and Inhibition of the Human de novo DNA Methyltransferase DNMT3A."

Rodwell, M.J., Electrical & Computer Engineering, \$4,360,250, Cornell University, "UCSB Node of the National Nanotechnology Infrastructure Network."

Rodwell, M.J., Electrical & Computer Engineering, \$2,250,000, Teledyne, "THz Electronics for Transceiver Arrays (THETA): THz Transistor and IC Development."

Rodwell, M.J., Electrical & Computer Engineering, \$90,000, Georgia Institute of Technology, "RET Site: National Nanotechnology Infrastructure Network (NNIN) RET."

Rothman, J.H. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, \$1,508,958, National Institute of Child Health & Human Development, "Specification and Differentiation of Endoderm in *C. elegans*."

Scott, S.L., Chemical Engineering, \$85,338, Dow Chemical Company, "Investigation of Silica-Supported Bimetallic Polymerization Catalysts."

Sherwin, M. (Physics), Institute for Terahertz Science & Technology, \$20,000, Tanner Research, Inc., "A Room Temperature Tunable Antenna Coupled Intersubband Terahertz (TACIT) Detector for Man-Portable Spectroscopy Instruments."

Smith, S. (Department of Counseling, Clinical, and School Psychology), Cosden, M. (Department of Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$39,213, Society for Personality Assessment Foundation, "An Investigation of Personality Assessment with Challenging Psychotherapies."

Squires, T., Chemical Engineering, \$75,000, Camille & Henry Dreyfus Foundation, "Camille Dreyfus Teacher-Scholar Award: Dynamic Effects at Physico-Chemical Interfaces."

Tague, C. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$79,462, US Geological Survey, "The Western Mountain Initiative: Vulnerability and Adaptation to Climate Change in Western Mountain Ecosystems."

Van Dam, W.K., Computer Science, \$443,880, National Science Foundation, "Small: CIF: Exact Thresholds for Quantum Information Processing."

Voss, L.B., Orfalea Family Children's Center, \$197,615, California Department of Education, "California State Preschool Program Application."

Voss, L.B., Orfalea Family Children's Center, \$249,934, California Department of Education, "2009-2010 California Department of Education General Child Care."

Wang, L., Electrical & Computer Engineering, \$330,000, National Science Foundation, "SHF: Small: Data Learning Framework for Diagnosis Based Yield Optimization."

Yan, X., Computer Science, \$368,488, National Science Foundation, "III: Medium: Collaborative Research: Towards On-Line Analytical Mining of Heterogeneous Information Networks."

Zok, F.W., McMeeking, R.M., Materials, \$2,499,905, Teledyne, "Hypersonic Materials and Structures."

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