

## January 2009 Contract and Grant Awards

Awschalom, D.D. (Physics), California NanoSystems Institute, \$450,000, Navy, "Spin Transport & Manipulation in Mesoscopic Semiconductor Devices."

Bhardwaj, A., Coldren, L.A., Electrical & Computer Engineering, \$41,576, University of Dublin (Ireland), "Aw-Y Laser."

Billeci, C., Arts & Lectures, \$35,000, National Endowment for the Arts, "Viva El Arte De Santa Barbara."

Bucholtz, M.H. (Linguistics), Institute for Social, Behavioral, & Economic Research, \$7,500, UC Linguistic Minority Research Institute, "NSF GK-12 Program: School Kids Investigating Language in Life and Society."

Caselle, J.E., Marine Science Institute, \$22,900, Santa Barbara County Air Pollution Control District, "Repower The R/V Cormorant."

Davis, F.W. (Donald Bren School of Environmental Science & Management), Stoms, D.M., Institute for Computational Earth System Science, \$269,434, UC California Institute for Energy Efficiency, "Biofuels and Biodiversity in California."

Dudley, T.L., Marine Science Institute, \$899,959, Clark County, Nevada, "For Effectiveness Monitoring of Spring-Fed Wetlands and Riparian Restoration Treatments."

Evans, A.G., Zok, F.W., Materials, \$375,000, Defense Advanced Research Projects Agency, "A Design Tool for Robust Composite Structures."

Franklin, D., Computer Science, \$242,848, National Science Foundation, "Career: Horseshoes & Hand Grenades: Exploiting Error Tolerance in Applications."

Goulias, K.G., Geography, \$723,430, UC Office of the President, "Development of Next Generation Agent-Based Simulation."

Hacker, B.R. (Earth Science), Institute for Crustal Studies, \$227,664, National Science Foundation, "Collaborative Research: Testing Channel-Flow Models Using Middle-Crustal Rocks of North Himalayan Gneiss Domes."

Juergensmeyer, M. (Sociology), Global and International Studies, \$400,000, Luce Foundation, "Religion in Global Civil Society: The Role of International NGOs."

Kanjo-Jurist, K., Helfrich, K.G., Art Museum, \$100,000, Luce Foundation, "The Ranch House: Cliff May's Designs for Modern Living."

Khammash, M., Mechanical Engineering, \$62,327, Stanford University, "Anesthetics and Stress Proteins in Brain Cell Injury."

Leifer, I.S., Marine Science Institute, \$32,144, UC MEXUS, "Passive Acoustic Observations of Marine Seabed Bubbles."

McClintock, W.J., Gaines, S. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$170,000, Resources Legacy Fund Foundation, "Marinemap Decision Support System."

McClintock, W.J., Gaines, S. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$75,000, Resources Legacy Fund Foundation, "The California Marine Life Protection Act Decision Support System: Recommendations for Development and Maintenance for the North Central Coast Study Region."

Morrison, G.M., Graduate Division, \$214,905, Department of Education, "Jacob Javits Graduate Fellowship Program."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,336,157, Army, "Institute for Collaborative Biotechnologies - Task Order 1."

Pak, D.K., Kennett, J.P. (Earth Science), Marine Science Institute, \$127,606, UC Office of the President, "Acidification of California Coastal Waters: The Geological Record of Natural and Anthropogenic pH Variability."

Palmstrom, C., Electrical & Computer Engineering, \$12,088, Georgia Institute of Technology, "Revolutionary Epitaxial Solutions Creating a Platform for a New Generation of Military Applications."

Palmstrom, C., Electrical & Computer Engineering, \$135,849, National Science Foundation, "Correlation of Atomic Level Growth, Characterization and Electronic Properties of Epitaxial Ferromagnetic Alloys on Compound Semiconductors."

Plaxco, K.W. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$55,348, University of British Columbia (Canada), "Microfluidic Biosensors for Rapid and Specific Detection of Prostate Cancer."

Reynolds, D.F., Religious Studies, \$80,000, American Council of Learned Societies, "ACLS Digital Innovation Fellowship."

Rose, K., Gibson, J.D., Electrical & Computer Engineering, \$35,000, Applied Signal Technology, Inc., "Efficient Compression and Processing of Audio and Video Signals."

Smith, S.T. (Anthropology), Institute for Social, Behavioral, & Economic Research, \$250,000, Packard Humanities Institute, "Ancient Nubians and Early African States in The 4Th Cataract Region of Sudan, ASU-UCSB MDASP 2009."

Stucky, G.D., Chemistry & Biochemistry, \$150,000, Lawrence Livermore National Security, LLC, "Biomolecule-Directed Synthesis of Highly Ordered and Nanostructured Porous ZnO."

Tague, C. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$52,669, United States Forest Service, "Interactions Among Climate Change, Hydrology, and Terrestrial and Aquatic Ecosystems."

Theogarajan, L., Electrical & Computer Engineering, \$90,000, Intel Corporation, "Electronic DNA Barcode Sequencing."

Valentine, M.T., Mechanical Engineering, \$12,500, Santa Barbara Cottage Hospital, "SBCH-UCSB Special Research Award: Role of Kinesin-Related Motor Proteins in the Formation and Maintenance of the Mitotic Spindle," matched by \$12,500 from the UCSB Office of Research.

Van De Walle, C.G., Materials, \$236,536, Semiconductor Research Corporation, "First-Principles Modeling of Gate Stacks for Evolutionary & Revolutionary CMOS."

Wudl, F. (Chemistry & Biochemistry), California NanoSystems Institute, \$151,000, Nissan Chemical Industries, Ltd (Japan), "Novel Approach to HIL for OLED."

Ziomek, K.L. (History), Fruhstuck, S. (East Asian Languages & Cultural Studies), Interdisciplinary Humanities Center, \$22,000, UC Pacific Rim Research Program, "An Empire on Display: Reconfiguring the Japanese Colonial Subject in the Twentieth Century."

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