

February 2009 Contract and Grant Awards

Awschalom, D.D. (Physics), Hu, E.L. (Electrical & Computer Engineering), California NanoSystems Institute, \$5,100,000, Defense Advanced Research Projects Agency, "Quantum Information Processing with Spins in Diamond."

Belkin, A. (Political Science), Institute for Social, Behavioral, & Economic Research, \$80,000, Gill Foundation, "Gays in the Military."

Bildsten, L., Physics, \$42,513, Association of Universities for Research in Astronomy, "Optical and Ultraviolet Photometry of Isolated Neutron Stars."

Bowers, J.E., Electrical & Computer Engineering, \$150,000, Intel Corporation, "SiGe APDs."

Brewer, F.D., Electrical & Computer Engineering, \$180,000, Semiconductor Research Corporation, "Latency-Insensitive Design of Mixed Hardware Systems."

Brown, F.L., Chemistry & Biochemistry, \$435,000, National Science Foundation, "Stochastic Methods in Chemistry and Biophysics."

Dagli, N., Electrical & Computer Engineering, \$200,000, Naval Postgraduate School, "Micro Ring Resonators for Integrated Lattice Accumulators."

Gordon, M., Chemical Engineering, \$100,000, American Chemical Society, "Near-Field Vibrational Spectroscopy and Imaging of Chemical Species on Individual Nanoparticles During Catalytic (de) Hydrogenation."

Grafton, S.T., Psychology, \$98,857, National Institute of Health John F. Fogarty International Center, "The Role of Fronto-Parietal Cortices in the Prediction of Self-Generated and Observed Actions."

Gwinn, E.G., Fygenson, D.K., Physics, \$557,446, National Science Foundation, "Silver Cluster Emitters Caged in DNA Constructs."

Hawker, C.J. (Materials), Materials Research Laboratory, \$15,000, UC Discovery Grant-Electron Manufacturing & New Material, "Materials Research Outreach Program Symposium (MROP 2009)."

Hayton, T.W., Chemistry & Biochemistry, \$300,000, UC Lab Fees Research Program, "Optimizing Ligand Design for the AnO₂⁺ Ions (An = U, Np, Pu)."

Heeger, A.J. (Physics), Center for Polymers & Organic Solids, \$200,000, Konarka Technologies, Inc., "Semiconducting Polymer/Fullerene Self-Assembled Network Solar Cells."

Heeger, A.J. (Physics), Awschalom, D.D. (Physics), California NanoSystems Institute, \$500,000, UC Lab Fees Research Program, "Carbon-Based Structures for Information & Energy Technology."

Husak, G.J., Funk, C.C., Geography, \$72,000, Science Systems and Applications, Inc., "Developing an Improved Drought Early Warning Data Portal."

Keller, A.A. (Donald Bren School of Environmental Science & Management), Institute for Computational Earth System Science, \$5,000, Electric Power Research Institute, "Second Forum on Energy and Water Sustainability."

Leal, L.G., Chemical Engineering, \$613,312, UC Office of the President, "Hybrid Computational Methods for Multiphase Materials."

Levi, C.G., Materials, \$375,000, Navy, "Degradation of Environmental Barrier Coatings by Molten Silicates: Mechanisms and Mitigation."

Mazin, B., Physics, \$612,200, National Aeronautics & Space Administration, "Extremely Large Optical/UV MKID Focal Plane Arrays."

McClintock, W.J., Gaines, S. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$1,081,905, Resources Legacy Fund Foundation, "MarineMap Decision Support System."

Mezic, I., Mechanical Engineering, \$50,000, UC Lawrence Berkeley Laboratory, "Real-Time Assessment and Visualization of Model-Based Energy Performance in High Performance Buildings."

Millett, K.C. (Mathematics), Institute for Social, Behavioral, & Economic Research, \$10,000, Santa Ynez Band of Chumash Indians, "American Indian Scholars Program."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$958,000, Army-Subcontract from SpectraFluidics, "Institute for Collaborative Biotechnologies (ICB) - Task Order 8 "Nanostructured Sensors: Sensitive, Target-Specific, Field-Deployable Methods Using Nanostructured Silver and Gold for Explosives and Biohazards Detection by Surface-Enhanced Raman Spectroscopy."

Moses, D. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$30,000, ATK Space Systems, Inc., "Subcontract for "Semiconductor Large Area Neutron Counting Array (SLANCA)"."

Scott, S.L., Peters, B., Chemical Engineering, \$494,311, National Science Foundation, "A Synthetic Approach to Active Site Deconvolution in Supported Cr Catalysts for Olefin Polymerization."

Stucky, G.D., Metiu, H.I., Chemistry & Biochemistry, \$1,497,928, UC Lab Fees Research Program, "Photoelectrocatalysis for Conversion of CO₂ to Fuels."

Vandenberg, C.A. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, \$15,000, Santa Barbara Cottage Hospital, "Characterization of Ion Channel Associated with Periodic Paralysis."

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