

## April 2009 Contract and Grant Awards

Bazan, G.C. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$225,000, Army, "Design and Preparation of Nanoparticle Dimers for SERS Detection."

Belkin, A. (Political Science), Institute for Social, Behavioral & Economic Research, \$60,000, Wells Fargo Foundation, "Gays and Lesbians in the Military."

Beltz, G.E. (Mechanical Engineering), College of Engineering, \$11,000, Xerox Foundation, "College of Engineering Undergraduate Scholarships and Outreach."

Brown, E.R., Lee, H., Electrical & Computer Engineering, \$254,063, Army, "Development of a Reflective THz Medical Imaging System."

Clegg, D.O. (Molecular, Cellular & Developmental Biology), Neuroscience Research Institute, \$599,998, California Institute for Regenerative Medicine, "Synthetic Matrices for Stem Cell Growth and Differentiation."

Cohen, A.S., Ettenberg, A., Psychology, \$63,399, National Institute on Drug Abuse, "The Effects of Stress on Nicotine Motivation."

Costello, C.J. (Donald Bren School of Environmental Science & Management), Marine Science Institute, \$65,000, Resources Legacy Fund Foundation, "Model Development for Marine Life Protection Act."

Gossard, A.C., Materials, \$80,000, Princeton University, "Coherent Transfer of Spin via a Single-Electron Shuttle."

Gross, D.J. (Physics), Kavli Institute for Theoretical Physics, \$260,000, UC Berkeley, "Developments in Math-Physics."

Hawker, C.J. (Materials), Materials Research Laboratory, \$82,433, University of Delaware, "NIRT: Nanoscale Engineering and Manufacture Effected Through Molecular Architecture and Structure."

Hess, L.L., Institute for Computational Earth System Science, \$173,350, Jet Propulsion Laboratory, "An Inundated Wetlands Earth System Data Record: Global Monitoring of Wetland Extent and Dynamics."

Hollerer, T.H., Computer Science, \$74,997, Korea Ministry of Science & Technology, "Access Anywhere Interaction', a Proposal to the Tangible Space Initiative at the Korea Institute of Science and Technology."

Ji, C. (Earth Science), Institute for Crustal Studies, \$64,766, Department of Interior (U.S. Geological Survey), "Global Earthquake Characterization on Irregular Fault Surfaces, Collaborative Research with UCSB and USGS."

King, J., Geography, \$224,645, National Science Foundation, "Photodegradation of Plant Litter in Grassland Ecosystems: A Mechanism for Uncoupling C and N Biogeochemistry."

Kramer, E.J. (Materials), Bazan, G.C. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$39,993, Navy, "Morphological and Compositional Characterization of Bulk Heterojunction Organic Solar Cells."

Lemenager, S., English, \$8,000, UC Humanities Research Institute, "Beyond Environmentalism: Culture, Justice, and Global Ecology Conference."

Lim, S., Okamoto, Y. (Education), Gevirtz Graduate School of Education Research Office, \$20,000, Association for Institutional Research, "Ethnic and Racial Differences in Higher Education Attainment: Effects of Family Resources OR Effects of School Resources?"

Lubin, P.M. (Physics), Institute for Terahertz Science & Technology, \$12,000, Jet Propulsion Laboratory, "W-Band Amplifier Assemblies."

Mezic, I., Mechanical Engineering, \$1,454,839, Air Force, "Dynamical Systems Analysis of Complex Networks."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$173,267, Army, "Institute for Collaborative Biotechnologies – Task Order 2: “Bio-Inspired Multi-Scale Energy-Dispersive Composites” (Caltech)."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$300,000, General Technical Services LLC, "Bio-Inspired Low-Temperature Catalytic Synthesis of Nanoparticulate Barium Titanate for Fireproof Lithium Batteries, Phase II."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,723,756, Army, "Institute for Collaborative Biotechnologies - Task 15: "GeoTrack: Target Localization and Tracking by Networked Unmanned Systems" (Toyon)."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$1,378,979, Army, "Institute for Collaborative Biotechnologies - Task Order 14: "Detection of Airborne Explosives with Ultra-High Sensitivity and Specificity" (SpectraFluidics)."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$2,041,000, Army, "Institute for Collaborative Biotechnologies - Task Order 6: “Cognitive Neuroscience.”"

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,356,123, Army, "Institute for Collaborative Biotechnologies - Task Order 7."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,349,782, Army, "Institute for Collaborative Biotechnologies - Task 9: "Heterogeneous Battlefield Sensor Networks - A Bio-Inspired Overlay Architecture" (Teledyne)."

Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,100,000, Army, "Institute for Collaborative Biotechnologies - Task 10: "Development of Biologically Inspired Reversible Adhesives for Ambulating Meso- and MicroRobots" (IMT)."

Palmstrom, C., Electrical & Computer Engineering, \$139,877, Army, "Development of In-Situ Elemental Composition Determination During Molecular Beam Epitaxial Growth by Energy Dispersive X-ray Spectrometry."

Palmstrom, C., Electrical & Computer Engineering, \$557,118, University of Minnesota, "MBE Growth and Characterization of Ferromagnetic Metal/Semiconductor Heterostructures for Spin Transport Measurements."

Roof, C. (Religious Studies), Interdisciplinary Humanities Center, \$286,682, Bureau of Educational and Cultural Affairs, "Religion in the United States: Pluralism and Public Presence."

Rumberger, R.W. (Education), Gevirtz Graduate School of Education Research Office, \$75,000, William and Flora Hewlett Foundation, "California Dropout Research Project: Phase Two Supplement."

Scott, S.L., Chemical Engineering, \$20,400, National Science Foundation, "Kokes Awards for the 21st North American Catalysis Society Meeting."

Speck, J.S., Denbaars, S.P., Materials, \$400,000, Defense Advanced Research Projects Agency, "High Performance InGaN-Based Solar Cells."

Sugar, R., Physics, \$39,123, National Science Foundation, "Lattice QCD on Blue Waters."

Venegas, C. (Film Studies), Interdisciplinary Humanities Center, \$3,000, County of Santa Barbara, "Latino CineMedia Film Festival."

Voss, L.B., Orfalea Family Children's Center, \$2,572, State of California, "CDE Infant/Toddler Resource 2008-2009."

White, R. (Institute for Collaborative Biotechnologies), Plaxco, K.W. (Chemistry & Biochemistry), Center for Polymers & Organic Solids, \$96,472, National Institute of General Medical Sciences, "Rapid Electronic Detection of Drug Analytes in Blood."

Zhao, Y., Agrawal, D., Computer Science, \$450,000, National Science Foundation, "CluE: Towards Scalable Primitives for Graph Operations."

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