Lab Fee RFP
Awards by Campus – November 2008

PI		Campus/Lab	Project Title
Alexander	Balatsky	LANL	Spectroscopy of Impurities in Correlated Electron Systems
William	Daughton	LANL	Optimizing Electron Wakefield Acceleration for X-Ray Lasers
Jeanne	Fair	LANL	Understanding sialic acid variability
Donald	Hickmott	LANL	Geodynamics of Carbon in Subduction Zones & Earth's Mantle
Sven	Vogel	LANL	Student Travel Opportunities for Neutron Experiments (STONE)
Robert	Wingo	LANL	Detection of Agricultural Infestations
Anton	Barty	LLNL	Biomolecular imaging at LCLS
Aleksandr	Noy	LLNL	NanoBioelectronics with 1-D lipid bilayers on Si nanowires
Donald	Sirbuly	LLNL	Nanofiber optical junctions for advanced biological sensing
Richard	Allen	UCB	Integrated finite frequency imaging of continents & oceans
Kristie	Boering	UCB	First modeling of recent stratospheric radiocarbon levels
Roger	Falcone	UCB	High energy, short pulse fiber laser R&D for x-ray sources
Mary	Firestone	UCB	Root-microbe interactions control soil C stabilization
James	Graham	UCB	Direct detection and characterization of extra-solar planets
Frances	Hellman	UCB	Synthesis, Experiments and Theory of Relaxor Ferroelectrics
Michael	Marletta	UCB	Shining Light on the Mechanism of Nitric Oxide Synthase
Anastasios	Melis	UCB	Microfluidic Platforms for Photosynthetic Bioproducts
Burkhard	Militzer	UCB	Computer Simulations of Warm Dense Planetary Materials
James	O'Brien	UCB	Dynamic Update of Tetrahedral Meshes for Deforming Solids
S.G.	Prussin	UCB	Primary Screening of Cargo Containers for high-Z Materials
Mark	Stacey	UCB	Submarine discharge in South and Central San Francisco Bay
Yuri	Suzuki	UCB	Nanomagnets: A new paradigm for energy efficient electronics
Jasmina	Vujic	UCB	A UCB-Labs Joint Berkeley Nuclear Research Center
Birgitta	Whaley	UCB	Quantum calculations for donor qubits in solid state devices
Zhaojun	Bai	UCD	Parallel Solvers for Eigenproblems in Quantum Mechanics
Nigel	Browning	UCD	A UC-Davis/LLNL Program in Ultrafast Materials Science
Robert	Guy	UCD	Flow in amoeboid movement: modeling and numerical methods
Charles	Lesher	UCD	LAPTRON: Neutron Instrumentation for High Pressure Research
Charless	Fowlkes	UCI	Context Driven Image Interpretation in Satellite Imagery
Marc	Madou	UCI	Fractal Electrodes for Lithium-Ion Batteries
Zuzanna	Siwy	UCI	Synthetic functional nanopores for biosensing applications
Soroosh	Sorooshian	UCI	Enhancing California Water Resource Decision Support System
Andrea	Bertozzi	UCLA	Multiscale methods of fracture and multimaterial debris flow
Eric	Hudson	UCLA	Investigation of the optical transition in the 229Th nucleus
Luisa	Iruela-Arispe	UCLA	Modeling of Pathological and Developmental Angiogenesis
Pietro	Musumeci	UCLA	Inverse Free Electron Laser driver for ICS X-ray sources
Yuri	Shprits	UCLA	UCLA-LANL Radiation Belt Reanalysis Project
Giovanni	Zocchi	UCLA	DNA molecular springs for the control of protein activity
Larissa	Dobrzhinetskaya	UCR	Experimental studies of metal-nitrides in extreme conditions
Umar	Mohideen	UCR	Uncooled MEMS Terahertz Microspectrometer for Standoff Det.
David	Parker	UCR	Tracking the Origins of Perchlorate in Groundwater
Shan-Wen	Tsai	UCR	Cold Atom Mixtures of Fermions and Bosons

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Konstadinos	Goulias	UCSB	Development of Next Generation Agent-based Simulation
Trevor	Hayton	UCSB	Optimizing Ligand Design for the AnO2+ ions (An = U, Np, Pu)
Gary	Leal	UCSB	Hybrid Computational Methods for Multiphase Materials
Galen	Stucky	UCSB	Photoelectrocatalysis for Conversion of CO2 to Fuels
Scott	Brandt	UCSC	RADIX: HPC Data Center Performance Monitoring and Management
Nathaniel	Dominy	UCSC	Climate change, lemurs and recent megafaunal extinctions
Dietlind	Gerloff	UCSC	Integrated Data Visualization for Bacteria in the Oralgen DB
Joel	Kubby	UCSC	Design of an AO microscope for biological imaging
Wentai	Liu	UCSC	Wireless Neural Interfaces
Chad	Saltikov	UCSC	Chromium transformation pathways in metal-reducing bacteria
Stanford	Woosley	UCSC	Studies in Nuclear Astrophysics
Dmitri	Basov	UCSD	Carbon-based structures for information & energy technology
Charles	Elkan	UCSD	Learning From Presence-Only Data
Steve	Jiang	UCSD	Adaptive Radiotherapy Based on High Performance Computing
Marc	Meyers	UCSD	Behavior of Metals under Extreme Laser Pulse Loading
Susan	Shirk	UCSD	Inst. on Global Conflict & Cooperation Core Funding Platform
Paul	Siegel	UCSD	Coding, Detection, and Inference in Multiple Dimensions
Susan	Taylor	UCSD	Cellular Function and Regulation of Protein Kinases
William	Trogler	UCSD	Explosives Sensing with Bifunctional Luminescent Polymers
Ross	Walker	UCSD	Novel Approaches for Analysis of Large Scale MD Simulations
Raul	Andino	UCSF	Virus population dynamics, genetic diversity and evolution
Tanja	Kortemme	UCSF	Algorithms for computational design of protein biosensors
Anita	Sil	UCSF	Regulatory networks that control fungal pathogenesis
Chao	Tang	UCSF	Boolean model of the restriction point in cell cycle