

REPORT OF PROPOSALS

For the Month of June/2005

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
CHEMICAL ENG'G	Fishtik, I.	NSF	Phase Stability Relations in Multiphase, Multiple Chemical Reaction Systems	\$ 277,638
	Camesano, T.	Charles A. and Anne Morrow Lindbergh Foundation	Understanding How Cranberry Can Be Used as a Natural Therapy to Prevent and Treat Kidney Infections	\$ 10,580
	Wilcox, J. *Aboud, S. *Wobbe, K.	NSF	PROPs for Education and Learning (PROPEL)	\$ 906,083
	Datta, R.	Mass. Technolgy Collaborative (Comm. Of Mass.)	A University-Industry Collaboration to Advance Fuel Cell Technolgy and It's Commercialization in the Commonwealth	\$ 1,519,884
CHEMISTRY & BIOCHEMISTRY	Thalladi, V.	NIH	Discovery and Selective Growth of Pharmaceutical Polymorphs	\$ 726,063
	Thalladi, V.	American Chemical Society	Design and Synthesis of Organic and Metal Organic Octupolar Nonlinear Optical Materials	\$ 120,000
CIVIL & ENVIRONMENTAL ENG'G	Mallick, R. B.	Maine Dept. Of Trans. (Dept. Of Trans.)	Analysis of Pavement Response Data and Use of Nondestructive Testing for Improving Pavement Design	\$ 154,893
COMPUTER SCIENCE	Pollice, G.	Rochester Institute of Technology (NSF)	Adaptive Collaborative Environments for Distributed Software Teams (ACE/DST)	\$ 29,866
	Rundensteiner, E. *Woycheese, J.	NSF	DDDAS-SMRP: Real-Time Monitoring of Sensor Streams for Fire Spread Prediction	\$ 598,037
	Rundensteiner, E.	Univ. of Mass/Lowell (NIH)	Sync Your Data: On-Demand Propagation of Updates from Public Genomic Data Repositories	\$ 400,030

ELECTRICAL & COMPUTER EN'G	Pahlavan, K. *Lou, W. *Looft, F. *Levesque, Allan	Rockwell Collins (DARPA)	Robust Surface Navigation	\$ 637,768
	Pedersen, P.	Army	Real-Time Troop Physiological Status Monitoring System Using A Common Wireless Network	\$ 3,320,000
FIRE PROTECTION ENG'G	Notarianni, K. A. *Dempsey, N. *Barnett, J.	Univ. of California (NSF)	ERC for Multi-Hazard Civil Infrastructure Protection	\$ 1,175,082
IGSD	Krueger, R.	Dept. of Housing and Urban Development	Piedmont Neighborhood Empowerment Institute	\$ 397,868
MATHEMATICAL SCIENCES	Tang, D. *Walker, H. *Petruccielli, J.	NSF	Multi-Physics Modeling and Meshless Method for Atherosclerotic Plaque Progression	\$ 1,847,537
	Walker, H. F.	Sandia National Laboratories (DOE)	Nonlinear Solvers Research	\$ 70,000
	Yakovlev, V.	EADS Foundation d'Entreprise	Neural-Networks-Based FDTD-Backed Computational Schemes for Microwave Inverse Problems and Optimization	\$ 275,438
MECHANICAL ENG'G	Gatsonis, N. A.	Air Force of Scientific Research	A Hierarchical Multiscale Particle Computational Method for Simulation of Nanoscale Flows on 3d Unstructured Grids	\$ 245,669
	Johari, H.	US Army	High Fidelity Experimentation for Validation and Verification of Computational Modeling of Airdrop Systems	\$ 350,172
	Pryputniewicz, R. J.	BWXT Pantex (DOE)	Purchase of Certified Test Samples	\$ 16,798
	Fofana, M. S.	NSF	Integrative Repetitive Activities and Dynamic Stability of Spine	\$ 1,799,485
PHYSICS	Zozulya, A.	University of Colorado (DARPA)	Integrated Cold Atom Chip Interferometer	\$ 105,645
	Norbury, J.	NASA	Graduate Student Researchers Program - Ryan Norman	\$ 24,000
	Norbury, J.	NASA	Graduate Student Researchers Program - Anne Adamczyk	\$ 24,000

OTHER

Durgin, W. W. *Ma, Y. H. *Wilcox, J.	NSF	Partnership for Innovation for the Clean and Efficient Production of Hydrogen	\$ 599,999
Cyr, M.	Michigan Technological University (NSF)	Center for Research on Integrated STEM Learning Through Engineering Applications	\$ 3,173,251
*CPI		Total	\$ 18,805,786