

REPORT OF PROPOSALS

For the Month of May, 2003

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Tyler, J.	Helen V. Froehlich Foundation	State of the Fish Populations & Quality of the Environment in the Pelagic Zone of Lake Georgia, NY	\$ 194,488
BIOENGINEERING INSTITUTE	Mendelson, Y.	ARMY	A Comparative Study of Transmission and Reflectance Pulse Oximeters Under Simulated Battlefield Conditions	\$ 86,608.00
	Zhang, Q.	ARMY	Tissue Characterization in MR Imaging for Breast Cancer Detection and Modeling	\$ 476,448.00
CHEMICAL ENG'G.	Camesano, T. *Pins, G.	National Institute of Health	Mechanisms of Anti-Adhesion of Cranberry Constituents	\$ 364,022
	Thompson, R.	Yardney Technical Products	Improved Anode Material Preparation & Characterization	\$ 70,000
CHEMISTRY & BIOCHEMISTRY	McGimpsey, G. *MacDonald, J. *Thalladi, V.	NIH	Microfluidic Sensors for Detection of Blood Analytes	\$ 429,411
CIVIL & ENVIRONMENTAL ENGINEERING	Mallick, R.	University of New Hampshire	Development of a Guide for Selection of Recycling Additive & Operation for Asphalt Pavements with Different Types of Underlying Materials & Substructures	\$ 104,142
	Mallick, R.	FILA	Preparation of Slabs for Testing of Fiction	\$ 2,192
	Mallick, R.	Maine DOT	Determination of Structural Strength of Plant Mix Recycled Asphalt Pavement	\$ 28,346

ELECTRICAL & COMPUTER ENGINEERING	Bogdanov, G.	ARMY	Development of Specialized MRI Radio-Frequency Coils for Breast Cancer Screening	\$	280,620
	Clancy, E.	Spaulding Rehab. Hospital Boston	Enhancing Motor Learning in Traumatic Brain Injury (TBI) Patients	\$	65,995
FIRE PROTECTION ENG'G.	Woycheese, J.	NIST	Online Access to and Data Analysis Tools for Experiments in Building and Fire Science	\$	231,869
MECHANICAL ENG'G.	Esmaeeli, A.	ACS-PRF	Direct Numerical Simulations of Internal Convective Boiling	\$	120,000
	Pryputniewicz, R.	Draper Laboratory	Laser Optoelectronic Holography Study of MEMS gyro Dynamics	\$	95,000
	Apelian, D. Makhlouf, M.	ATI	Commercially Viable, Low Cost, and Energy Efficient Processing of Semi-Solid Aluminum Alloys	\$	665,460
PHYSICS	Lew Yan Voon, L.	American Chemical Society	Electron States in Heterosheets of Hexagonal Symmetry	\$	119,975
	Ram-Mohan, R.	AFOSR	Wavefunction Engineering of Spintronic Devices in ZnO/Mgo & GaN/AIN Quantum Structures Doped Transitional Metal Ions	\$	384,239
OTHER	Cyr, M.	Tufts University	Tufts Pre-College Engineering for Teachers	\$	182,018
	*CPI		Total	\$	3,900,833