

## REPORT OF PROPOSALS

For the Month of March/2003

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
<b>BIOLOGY &amp; BIOTECHNOLOGY</b>	Tyler, J. *Rulfs, J.	University of Connecticut	Genetic Structure in Connecticut Alewife Populations	\$ 54,474
	Dilorio, A. *Crusberg, T. *Camesano, T.	NSF	Development of a Practical Technology for Heavy Metal Remediation	\$ 458,625
<b>CHEMICAL ENG'G.</b>	Thompson, R.	Yardney Technical Products, Inc.	Analysis of Yardney Technical Products, Inc.	\$ 10,000
	Thompson, R. *Bergendahl, J.	Triton Systems, Inc.	Novel Adsorbents for the Removal of Disinfection By-products from Drinking Water	\$ 30,000
	Datta, R. *Fishtik, I.	Air Force	Accurate Thermochemistry form Group Additivity and Ab Initio Methods via Response Reactions	\$ 396,728
	Datta, R. *Fishtik, I.	DOE	Theory-Guided Molecular Design of New Reforming Catalysts	\$ 833,986
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Plummer, J.	UMASS Amherst	Inactivation of Bacillus Subtilis Spores & Cryptosporidium Parvum by Combined Sonication and Chlorination	\$ 110,821
	Ray, M.	Alberta Transportation Dept.	Evaluation and Testing of Alberta's Weak-Post W-beam Guardrail System	\$ 40,467

<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Pahlavan, K. *Agu, E.	NSF	SENSORS: Modeling, Performance Analysis, and Graphical Display for Indoor Tracking	\$	757,745
	Papageorgiou, D.	NIH	Closed-Loop Chronically-Implantable Drug Delivery System	\$	322,611
	Bogdanov, G.	INSL	Development of Coils for MRI Breast Cancer Detection	\$	43,979
<b>MANAGEMENT</b>	McCoy, S. *Loiacono, E.	NSF	Development & Assessment of Information Technologies for Students with Disabilities	\$	682,804
<b>MATHEMATICAL SCIENCES</b>	Tang, D.	Washington University	Quantifying Plaque Vulnerability by MRI and Biomechanics	\$	83,788
	Walker, H.	NIST	NIST Summer Undergraduate Research Fellowship Program	\$	7,000
	Tang, D. *Walker, H	NIH	Multi-Modality Approach for Atherosclerotic Plaques	\$	424,262
<b>MECHANICAL ENG'G.</b>	Hou, Z.	Ohio State University	SENSORS/CAM: A Videogrammetric Sensor Network for Monitoring Real-Time Large Scale Structural System Tests	\$	228,678
	Hoffman, A.	University of Massachusetts Worcester	Stretch Sensitivity of Mouse Cutaneous Afferent Neurons	\$	38,902
	Brown, C.	HAAS Automation, Inc.	CNC Educational Project for Malaysians with HAAS Automation	\$	3,878,000
	Sullivan, J. *Ludwig, R. *Zhang, Q.	ARMY	MRI Registration Specifically Designed & Anatomically Optimized for Female Breast Cancer Surgery	\$	109,985

	Johari, H.	University of Washington	Modification of Turbulent Non-Premixed Flames by Pulsed Fuel Injection	\$	155,051
	Pryputniewicz, R. *Furlong, C.	Block Engineering Inc.	Development of a ChemPen: A MEMS Chemical Detector	\$	757,261
	Apelian, D.	General Motors	Development of Computational Methodologies for Assurance Of High Strength Fatigue Resistant Aluminum Castings	\$	681,466
<b>PHYSICS</b>	Ram-Moham, R.	Washington University	Sensors: A New Class of Devices Based on Interfacial Effects in Metal-Semiconductor Hybrid Structures	\$	214,017
	Koleci, C.	NIST	Summer Undergraduate Research Fellowship	\$	7,000
<b>OTHER</b>	Obien, R. *Brueck, L.	Mass Board of Library Commissioners	LSTA Preservation Survey Program	\$	2,500
	<b>*CPI</b>		<b>Total</b>	<b>\$</b>	<b>10,330,150</b>