

REPORT OF PROPOSALS

For the Month of January/2003

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>		<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Weathers, P.	NIH	Artemisinin Biosynthesis: Origin of IPP Carbon	\$	192,550
BIOMEDICAL ENG'G.	Billiar, K.	Whitaker Foundation	Mechanically-Guided Wound Healing to Promote Dermal Regeneration	\$	239,952
CHEMICAL ENG'G.	Camesano, T.	AAAS	Interactions Between DNA and Polycationic Polymers for Applications in Gene Therapy	\$	4,000
	Wyslouzul, B.	ACS-PRF	Support for the "Nucleation Symposium"	\$	2,400
	Ma, Y. H.	Shell International	Ultra Thin Pd and Pd/Alloy Membranes for Hydrogen Separation and Reaction Applications	\$	1,938,548
CHEMISTRY & BIOCHEMISTRY	Wobbe, K.	NIH	Plant Virus Suppression of Host Programmed Cell Death	\$	197,109
CIVIL & ENVIRONMENTAL ENGINEERING	Ray, M. *Weir, J.	ATSSA	ATSSA Guardrail Level II Training Course	\$	3,971
	Mallick, R.	UMASS Dartmouth	Design of Superpave HMA for Low Volume Roads	\$	36,721
COMPUTER SCIENCE	Claypool, M. *Kinicki, R.	NSF	Extending Active Queue Management with Traffic Awareness	\$	355,874

ELECTRICAL & COMPUTER ENGINEERING	Duckworth, R.	Adaptive Instruments	Industrial Wireless Sensors	\$	20,000
FIRE PROTECTION ENG'G.	Barnett, J.	Battelle	Calibration of the Improved Full Scale Flame Test Apparatus for Clothing	\$	59,965
MANAGEMENT	Zhu, J.	NSF	An Integrated System for Supply Chain Optimization, Performance Analysis, and Design	\$	156,397
MATHEMATICAL SCIENCES	Tang, D. *Sotak, C.	Rockefeller Brothers Fund	Non-invasive Prediction of Atherosclerotic Plaque Rupture Using Multi-Disciplinary Approach	\$	25,000
	Humi, M. *Walker, H. *Martin, W. *Weekes, S.	NSF	Scientific Computing Research Environments for the Mathematical Sciences (SCREMS)	\$	125,328
MECHANICAL ENG'G.	Gatsonis, N. *Blandino, J.	NSF	Modeling, Simulation and Experimental Investigation of Fully and Partially Ionized Plasmas in Bounded and Unbounded Micro-scale Domains	\$	425,685
	Gatsonis, N.	NASA	NASA Graduate Student Researchers Program Unbounded Micron-Scale Domains	\$	23,981
	Moon, Y.	University of Michigan	Design Methodology of an RMT for Adjustable Capacity	\$	80,000
	Brown, C.	NSF	Three-Dimensional Analysis of Dental Microwear in Primates	\$	100,495

	Sullivan, J.	University of Rhode Island	Implementation of ITK Numerical Segmentation for Delineation of Brain Tumors	\$	19,000
	Sisson, R. *Rong, K.	NSF	Modeling & Simulation of Induction Hardening Systems	\$	397,539
	Rong, K. *Hou, Z.	NSF	GOALI-Collaborative Research: Integration of Computer Aided Fixture Design & matching Process Verification	\$	253,010
OTHER	Blaisdell, S. *Tichenor, K.	NSF	COUNT: Counselor Outreach to Underrepresented Students in Engineering & Technology	\$	491,404
	Blaisdell, S. *Tichenor, K.	NSF	Women & People of Color in Science, Technology, Engineering, and Math Summit	\$	31,100
	Krueger, R. *Carrera, F.	City of Worcester	Sustainable Cities Research Group at WPI	\$	33,000
	Krueger, R.	Massachusetts Tech. Collaborative`	Green Design for Friendly House	\$	19,800
	*CPI		Total	\$	5,232,829