

REPORT OF PROPOSALS

For the Month of December/2001

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>		<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Cheetham, R. *Weathers, P.	NSF	WPI Lankester Epiphyte Research Program	\$	45,450
	Miller, J.	Colleges of Worc. Consortium	The Dissemination and Development of Academic Programs in College Teaching	\$	9,450
CHEMICAL ENG'G.	Camesano, T.	NSF	NER: Fingerprinting Polysaccharides on a Bacterial Surface	\$	93,965
	Camesano, T. *Crusberg, T.	NSF	NIRT: Nanoscale Characterization of Pathogenic and Non-pathogenic Microbial Surfaces	\$	957,947
	Thompson, R. *Gatsonis, N. *McGimpsey, W.	NSF	NIRT: Experimental & Computational Investigations of Fluid Properties and Transport Phenomena in Nanodomains with Controlled Surface Properties	\$	1,120,271
CHEMISTRY & BIOCHEMISTRY	Fairchild, C.	USDA	Molecular Analysis of a BHLH Protein's Role in Phytochrome Regulation of Gene Expression	\$	75,000
	MacDonald, J. *McGimpsey, W.	NSF	NER: Design of Supramolecular Scaffolds for the Templated Assembly of Molecular Devices on Surfaces	\$	100,000
CIVIL & ENVIRONMENTAL ENGINEERING	Bergendahl, J.	NSF	NER: Nanoscale Zero-Valent Iron Catalyzed Advanced Oxidation of MTBE-Contaminated Water	\$	99,968
	Mallick, R.	UMASS Dartmouth	Portable Falling Weight Deflectometer Study	\$	49,790

	Ray, M. *Plaxico, C.	Battelle Memorial Lab.	Simulation & Analysis of a Guardrail System Impacted by a 3/4 Ton Pickup	\$	5,000
ELECTRICAL & COMPUTER ENGINEERING	Cyganski, D.	Infiniswitch Corp.	Analysis and Control of Congestion in the InfiniBand Architecture	\$	100,206
	Whitmal, N.	NIH	DSP-Based Real-Time Speech Intelligibility Prediction	\$	72,119
FIRE PROTECTION ENG'G.	Barnett, J.	(DOD)NAVY	Further Research & Development of an Improved Full Scale Flame Test Apparatus for Clothing	\$	30,541
MATHEMATICAL SCIENCES	Yakovlev, V.	Illinois Institute of Technology	Modeling & Design of Microwave Systems of Fruit Juices	\$	111,671
MECHANICAL ENG'G.	Fofana, M.	NSF	NIRT: Nanostructured Materials in Cutting Tools and Process Instabilities.	\$	1,538,871
	*CPI		Total	\$	4,410,249