

REPORT OF PROPOSALS

For the Month of July 2002

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>		<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Tyler, J.	NSF	CAREER: Integrated Studies of Lake Acidification Effects on Adirondack Fish Populations	\$	575,280
BIOMEDICAL ENG'G.	Shonat, R.	NSF	CAREER: Oxygenation Maps in the Somatosensory Cortex of the Rat During Functional Activation	\$	435,131
CHEMICAL ENG'G.	Ma, Y.	DOE	Nanostructure, Chemisorption and Permeation Characterization of Composite Pd & Pd-alloy on Porous Stainless Steel Membranes	\$	500,000
	Ribeiro, F.	Oak Ridge National Laboratory	Testing & Modeling of Catalysts and Absorbents for NOX Abatement	\$	40,177
	Camesano, T.	NSF	CAREER: Molecular-Scale Interactions Between Microbes and Surfaces in the Environment	\$	746,042
	Thompson, R. *Datta, R.	Yardney Technical Products, Inc.	Modeling of Fluidized Bed and Fuel Cell Systems	\$	20,000.00
CHEMISTRY & BIOCHEMISTRY	Arguello, J.	NSF	Structure-Function of Heavy Metal Transport CPx-ATPases	\$	875,383
	MacDonald, J.	NSF	CAREER: Design of Porous Crystalline Materials that are Modular	\$	521,218

CIVIL & ENVIRONMENTAL ENGINEERING	Plummer, J.	NSF	CAREER: Solar Radiation & Heating for Disinfection of Drinking Water in Developing Countries	\$	405,822
	Bergendahl, J.	NSF	CAREER: Prediction of Colloid Detachment from Rough Surfaces in the Environment	\$	455,978
COMPUTER SCIENCE	Fisler, K.	NSF	COLLABRATIVE RESEARCH: Extracting & Verifying Product-Line Systems	\$	291,599
	Claypool, M. *Cinicki, R.	NSF	Traffic Aware active Queue Management	\$	353,611
ELECTRICAL & COMPUTER ENGINEERING	Cyganski, D.	Raytheon Satcom Systems	Performance Enhancing Protocol for Military Satellite Services	\$	84,500
	Brown, D.	NSF	CAREER: Design & Performance Analysis of Low-Complexity Multiuser Detectors	\$	437,917
	Cyganski, D.	MIT Lincoln Laboratory	Power Law Scatter Models & Non-Linear Estimation for Super-Resolution Radar	\$	87,819
MANAGEMENT	Danneels, E.	NSF	CAREER: Enhancing Dynamic Capabilities in High-Technology Organizations	\$	578,359
MATHEMATICAL SCIENCES	Nandram, B.	NIOSH	Bayesian Approaches to Estimation and Analysis of NCHS Data	\$	47,366
MECHANICAL ENG'G.	Mayer, J.	Radiation, Science & Health Inc.	Center for Nuclear Technology and Society	\$	80,000
	Tryggvason, G. Esmaeeli, A.	NASA	Direct Numerical Simulations of Microstructure Formation in Alloys	\$	599,440

	Fofana, M.	NSF	CAREER: Stability Characterization in Machining Operations	\$	596,168
	Sullivan, J.	UMASS Medical School	Segmentation Algorithm Development for SD Rat Brains	\$	2,065
	Sullivan, J.	UMASS Medical School	Registration Algorithm Development for 3D Brain Images	\$	8,260
	Sullivan, J.	UMASS Medical School	Web Applications & DataBase Development for CCNI	\$	18,302
	Sullivan, J.	UMASS Medical School	Tcl/TK Graphical User Interface Using a VTK Kernel	\$	9,883
	Brown, C.	Kennametal, Inc.	Advanced Image Acquisition System	\$	37,301
PHYSICS	Koleci, C.	NSF	CAREER: Physics Education Research on Decision Making & Problem Solving as a Guide for Curriculum Development and Instruction	\$	433,981
	*CPI		Total	\$	8,241,602