

## REPORT OF PROPOSALS

For the Month of June 2002

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
<b>BIOLOGY &amp; BIOTECHNOLOGY</b>	Tyler, J.	University of Michigan	Modeling Spatial & Temporal Fish Habitat Use, Growth and Survival	\$ 44,695
<b>CHEMICAL ENG'G.</b>	Camesano, T.	ACS-Petroleum Research Fund	Molecular-Scale Interactions Between Bacteria & Surfaces: The Role of Bacterial Extracellular Polymers in Adhesion	\$ 35,000
	Thompson, R. *McGimpsey, G. *Gatsonis, N.	NSF	NIRT: Supplemental Funds for Foreign Travel	\$ 25,100
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Ray, M.	NSF	CCLI: Prototype Eduactional Materials Development for an Impact Mechanics Course	\$ 107,964
	Albano, L. *Fitzgerald, R.	NIST	Information Management System for Fire-Robust Structural Design	\$ 26,003
	Ray, M.	National Academy of Science	Improving Pedestrian Safety at Unsignalized Roadway Crossings	\$ 500,000
	Ray, M.	National Academy of Science	Recommended Guidelines for Curbs and Curb-Barrier Combinations	\$ 200,001
	Mallick, R. *Miller, J. *Salazar, G.	NSF	CCLI: Development of an Integrated Research Based Learning to Learn Experience for Civil & Environmental Engineering Undergraduate Students	\$ 74,905
	Bergendahl, J. *Thompson, R.	EPA	MTBE & TCE Removal from Water Utilizing Coupled Zeolite Sorption & Fenton's Oxidation	\$ 425,579
	Mallick, R.	Vermont Agency of Transportation	Characterization of Materials for Optimizing Mix and Structural Design of Hot Mix Asphalt(HMA) Pavements in Vermont	\$ 379,822

<b>COMPUTER SCIENCE</b>	Ward, M. *Rundensteiner, E.	NIMA	Multiresolution Exploratory Visualization of Multivariate Spatial & Non-Spatial Information	\$ 357,945
<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Nicoletti, D. *Miller, J.	NSF	K-6 Gets a Piece of the PIEEE-Partnerships Implementing Engineering Education	\$ 1,081,753
	Brown D. *Ludwig, R.	DARPA/NAVSEA	Robust Measurements of the Gottal Waveform Using a Coupled Microstrip Line Transverse Electromagnetic Resonator	\$ 122,991
	Makarov, S.	NSF	CCLI:EMD: Matlab Antenna Toolbox	\$ 350,569
	Michaelson, W.	USAMRMC	Real-Time Troop Physiological Status Monitoring System Using a Common Wireless Network	\$ 872,415
<b>MECHANICAL ENG'G.</b>	Sullivan, J.	UMASS Medical School	MRI of Brain Function and Receptors in Cocaine Addiction	\$ 375,519
	Blandino, J.	Jet Propulsion Labs (NASA)	Characterization of Dryout Point in Two-Phase Microchannel Flows	\$ 10,000
	Apelian, D.	DOE	Dvelopment of Continuous, Direct-Feedback Control Systems for Sintering of Metallic Components	\$ 803,589
<b>PHYSIC</b>	Lew Yan Voon, L.	Petroleum Research Fund	Novel Nanostructures	\$ 119,108
	<b>*CPI</b>		<b>Total</b>	<b>\$ 5,912,958</b>