

## REPORT OF PROPOSALS

For the Month of September/2002

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>		<u>Amount</u>
<b>BIOLOGY &amp; BIOTECHNOLOGY</b>	Robakiewicz, P. *Schachterle, L.	NSF	ASA: Adapting Student Self Assessment to Outcomes of a First Year STEM Curriculum	\$	274,691
<b>CHEMICAL ENG'G.</b>	Ribeiro, F.	DOE	Fundamental Studies on the High Temperature Kinetics for the Catalytic Combustion of Methane	\$	428,282
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Mallick, R.	National Research Council	Development of a Rational & Practical Method for Evaluation of Moisture Susceptibility of Asphalt Paving Mixes	\$	84,912
	Ray, M. *Plaxico, C.	Batelle Memorial Lab.	Simulation & Analysis of a Guardrail System Impacted (With X-44 Posts) by a 3/4 Ton Pickup Ton	\$	9,900
<b>COMPUTER SCIENCE</b>	Ward, M. *Rundensteiner, E.	NSF	Order, Spacing, and Clustering in Visual Exploration of Large Scale Data	\$	95,200
	Gennert, M.	UMASS Medical School	Patient Motion Detection and Correction in SPECT	\$	787,104
<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Clancy, E.	University of Laval, Quebec Canada	Dynamic Relationship of Surface EMG to Constant Angle Elbow Mechanical Impedance	\$	129,002
	Pedersen, P.	Chidren's Hospital Boston	Ultrasound Diagnosis of Lung Disease in Low Inflation	\$	73,521

	Clancy , E.	Whitaker Foundation	Comparison of Muscle Motor Unit Activity Recorded from Indwelling Needle Electrodes and Surface Electrode Arrays	\$	239,983
<b>FIRE PROTECTION ENG'G.</b>	Barnett, J. *Lucht, D.	3M Speciality Materials	Methods for Analyzing Thermal Decomposition Products from Interaction of C6-F-Ketone with Flame Front	\$	20,280
<b>MATHEMATICAL SCIENCES</b>	Walker, H.	Sandia National Labs	Nonlinear Solvers Research	\$	101,154
<b>MECHANICAL ENG'G.</b>	Sullivan, J.	UMASS Medical School	Development and Refinement of Registration and Warping Algorithms Necessary to Transform MRI and Histological Images into a Standardized Reference Space	\$	72,853
	Rong, Y.	NSF	GOALI: Integrated Geometry Variation Prediction and Control in Assembly	\$	348,551
	<b>*CPI</b>		<b>Total</b>	<b>\$</b>	<b>2,665,433</b>