

Report of Proposals

For the Month of February 2001

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
CHEMICAL ENGINEERING	Datta, R.	W.L. Gore	Composite Higher Temperature Proton-Exchange Membranes	\$135,141
	Ma, Y.H.	UTRC	On Board Vehicle, Cost Effective Hydrogen Enhancement for Transportation PEM Fuel Cells	\$631,127
	Ma, Y.H.	Shell Development Co.	Pd and Pd/Alloy Membranes for High Temperature Hydrogen Separation and Reaction Applications	\$496,132
CHEMISTRY AND BIOCHEMISTRY	Arguello, J.	NSF	Crystallization of a P1-Type Heavy Metal Transport ATPase	\$5,375
	Scala, A. *Dittami, J.	NSF	Acquisition of HPLC-MS/MS	\$248,093
CIVIL & ENVIRONMENTAL ENGINEERING	El-Korchi, T.	NSF	Collaborative Research for Investigation of Fire Performance of Structural Members Incorporating Fiber Reinforced Plastic Composites	\$286,572
COMPUTER SCIENCE	Claypool, M. *Brown, D.	NSF	Implicit Interest Indicators	\$309,839
FIRE PROTECTION ENGINEERING	Lucht, D.	NSF	Accelerating the Use of Fire Science in Attaining Public Safety Goals	\$266,164
MATHEMATICAL SCIENCES	Kim, Y.	NSF	Decision Trees via Statistical Modeling	\$103,973
	Vernescu, B. *Heinricher, A.	NSF	Research Experience for Teachers: Supplement to REU Program in Industrial Mathematics and Statistics	\$41,575

MECHANICAL ENGINEERING	Apelian, D.	DOE	Materials and Process Design for High-Temperature Carburizing	\$1,420,428
	Apelian, D.	DOE	Development of Continuous, Direct-Feedback Control Systems for Sintering of Metallic Components	\$735,323
	Demetriou, M.	NSF	Development of Intelligent Systems Laboratory	\$142,001
	Fofana, M.	NSF	On the Development of a Direct System Framework for the Study of Nonlinear Machine Tool Chatter	\$441,704
	Gatsonis, N.	NASA	Experimental Investigation and Modeling of Pulsed Plasma Thruster Plumes	\$55,598
	Rong, K *Sisson, R.	DOE	An Energy Saving Model for the Heat Treatment of Castings	\$1,502,770
	Tryggvason, G.	NASA	Computations of Boiling in Microgravity	\$90,000
	*CPI		TOTAL	\$6,911,815