

# Report of Proposals

## For the Month of March 2001

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Tyler, J. *Rulfs, J.	MIT	Assessing George's Bank Environmental Quality via Fish Growth and Growth Rate Potential	\$125,600
CHEMICAL ENGINEERING	Ma, Y.H.	Shell Global Solutions	Pd and Pd/Alloy Membranes for High Temperature Hydrogen Separation and Reaction Application	\$345,738
	Datta, R. *Ma, Y.H.	NSF	Development of a Novel Methanol Proton Exchange Membrane for DMFCs	\$100,000
	Datta, R. *Fishtik, I.	AFOSR	A Novel Algorithm for Unique Reduced Kinetic Mechanisms Based on Chemical Thermodynamics. Application to Combustion	\$452,094
CIVIL AND ENVIRONMENTAL ENGINEERING	El-Korchi, T.	Instron Corp.	Dynatup Impact Tester	\$30,000
	Ray, M.	University of Iowa	Side Impact: Finalizing the Test Procedures and Preliminary Countermeasures	\$60,000
	Ray, M.	DOT	New Driver Highway Workzone Safety and Awareness Program	\$326,488
COMPUTER SCIENCE	Cruz, I.	NSF	International Semantic Web Workshop	\$22,200
	Ward, M. *Rudensteiner, E.	NSF	Order, Spacing, and Clustering in Visual Exploration of Large Scale Data	\$470,378
ELECTRICAL & COMPUTER ENGINEERING	Ludwig, R.	UMASS	Gradient Coil Design for fMRI	\$200,000
	Looft, F.	NASA	Student Projects at Goddard Space Flight Center	\$20,000
	McNeill, J.	NSF	Research for Mixed Signal Electronic Technologies	\$289,137
	Pahlavan, K. *Makarov, S. *Beneat, J.	University of Oulu	Small Scale Ultra Wideband Antennas Design and Measurements	\$141,623

INSTRUCTIONAL MEDIA CENTER	Turgeon, P. *Lowenstein, A. *Tryggvason, G.	Dept. of Education	Manufacturing our Future: A Responsive Workforce Learning Environment (Pre-proposal)	\$1,046,857
MECHANICAL ENGINEERING	Apelian, D.	UT-Battelle, LLC	Optimization of Heat Treating Response of SSM Processed Aluminum Based Casting Alloys	\$40,000
	Apelian, D. *Makhlouf, M. *Alexandrou, A. *de Figuerdo, A.M.	DOE	Low Cost and Energy Efficient Methods for the Manufacture of Semi-Solid (SSM) Feedstock	\$720,960
	Makhlouf, M. *Apelian, D.	DOE	On-Line Sensing of Liquid Metal Chemistry	\$520,478
	Rong, Y.	NSF	Automated Dedicated Fixture Design and Verification	\$30,107
	* CPI		TOTAL	\$4,941,660