

REPORT OF PROPOSALS

For the Month of October/2004

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
CHEMICAL ENG'G.	Wilcox, J	American Chemical Society	An AB Inito Investigation for Modeling Mercury Speciation American Chemical Society	\$ 35,000
CIVIL & ENVIRONMENTAL ENGINEERING	Mallick, R. B.	Chase Corporation	Evaluation of Rutting and Shoving Potential Of Rosphalt RX	\$ 4,558
	Plummer, J. D.	Umass Amherst	Microbial Source Tracking Decision Matrix for Watershed Management	\$ 174,700
COMPUTER SCIENCE	Heffernan, N.	Umass Dartmouth	Algebra in Connected Classrooms	\$ 217,225
ELECTRICAL & COMPUTER ENGINEERING	Orr, J. *Cyganski, D. *Michalson, W.	US Department of Justice	Precision Indoor/Outdoor Personnel Location System	\$ 148,422
	Pahlavan, K.	Innovative Wireless Technology	Geolocation with UMB Mobile Radio Networks	\$ 150,068
	Pedersen, P.C.	DOD/Army	Real-Time Troop Physiological Status Monitoring System	\$ 1,245,000
MANAGEMENT	Gerstenfeld, A.	DED	South Africa: The Engine of Growth for Africa	\$ 216,576
MATHEMATICAL SCIENCES	Tang, D.	NSF	MRI Based 3D Multi-Component Models for Atherosclerotic Coronary Plaques	\$ 329,999

	Wilbur, J. D. *Morales, C. J.	NSF	Bayesian Image Meta-Analysis of Gel Electrophoresis	\$ 261,497
	Vernescu, B. *Martin, W. *Tang, D. *Walker, H. *Weekes, S.	NSF	Widening the Pipeline in Mathematical Sciences Through Mentoring	\$ 1,961,458
	Blank, I.	NSF	Free Boundary Problems Arising in Material	\$ 88,724
MECHANICAL ENGINEERING	Johari, H.	NSF	Combustion Characteristics of Modulated Jet Diffusion Flames in Crossflow	\$ 225,822
	Johari, H.	NSF	Interaction of an Inflated Parachute Canopy with Upstream Vortices	\$ 224,748
PHYSICS	Iannacchione, G.	NSF	Quenched Random Disorder In Soft Condensed Matter	\$ 409,245
OTHER	Durgin, W.	NSF	Ultrasonic Travel Time Technique as an Experimental Tool for Diagnostic of Grid-Generated Turbulence	\$ 253,096
	Schacterle, L. *Tryggvason, G.	NSF	Nomination Of Gretar Tryggvason for A DTS Award	\$ 300,000
	Schacterle, L. *Hill, C.	Umass Amherst (NSF)	Louis Stokes Alliances for Minority Participation (LSAMP Phase II)	\$ 372,000.00
	*CPI		Total	\$ 6,618,138