

**REPORT OF PROPOSALS**

**For the Month of March/2004**

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
<b>CHEMICAL ENG'G.</b>	Camesano, T.	NSF	CAREER: Molecular-Scale Interactions Between Microbes and Surfaces in the Environment	\$ 5,906
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Hart, F. *Mallick, R. *Mathisen, P. *Plummer, J.	NSF	Curriculum Reform Plan for Civil and Environmental Engineering at WPI	\$ 95,205
	Mallick, R.	Maine Dept. of Transportation	Development of Mix Design for 15 Foamed Asphalt Full Depth Reclamation Projects in Maine	\$ 19,386
	Mallick, R.	University of Maine	Acquisition and Analysis of Pavement Response Data for Proper Adoption of Mechanistic-Empirical Pavement Design Procedure by Maine DOT Using the Gilford Route 15 Instrumented Pavement Test Section	\$ 138,791
<b>COMPUTER SCIENCE</b>	Dougherty, D.	NSF	Theory and Applications of Higher-Order Matching	\$ 166,112
	Colon-Osorio, F. *Agu, E.	NSF	Energy Trust Models in Wireless Security Protocols-Optimality and Tradeoffs	\$ 509,859
	Claypool, M. *Brown, D.	Microsoft Corporation	Enhancing Microsoft's Relevance Processor with Implicit Interest Indicators	\$ 77,000
	Rundensteiner, E.	NSF	Collaborative Research: II: Universal Update Services for Heterogeneous Protein Databases	\$ 284,487

<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Lou, W.	NSF	Collaborative Research: Cross-Layer Optimization & Design for Wireless Ad Hoc Networks	\$ 314,618
<b>MATHEMATICAL SCIENCES</b>	Yakovlev, V.	The Ferrite Company, Inc.	Permittivity Reconstruction with Neutral Networks	\$ 58,895
<b>MECHANICAL ENG'G.</b>	Tryggvason, G. *Brown, C. *Hou, Z. *Olinger, D. *Rencis, J.	NSF	Educating Mechanical Engineers for the Challenges of the New Century	\$ 999,564
	Blandino, J.	Princeton University	Development of a Lithium Vaporizer Thermal Model for the Advanced Lithium-fed Applied-field MPD Thruster	\$ 142,843
	Brown, C. *Camesano, T.	Virginia Polytech. Institute & State University	A Scale Based Approach of Understanding the Significance of Surface Texture for Bacterial Attachment and Recovery	\$ 275,852
	<b>*CPI</b>		<b>Total</b>	<b>\$ 3,088,518</b>