

**Worcester Polytechnic Institute  
Report of Proposals Submitted  
August 2006**

Department	PI	Co-PI	Project Title	Sponsor	Total Requested	Cost Sharing
Chemical Engineering	Ilie Fishtik		New Adsorbents with Selective Sorption Properties Containing Nanoparticles in the Phase of Ionic Polymers	U.S. Civilian Research & Development Foundation	\$5,500.00	\$2,827.00
Chemistry and Biochemistry	Robert Connors		Preparation of Supramolecular Materials That Generate, Trap, and Release Singlet Oxygen	Ventana Research Corporation	\$21,117.00	\$0.00
	Venkat Thalladi		Discovery and Selection of Pharmaceutical Polymorphs on Thiol and Silane Self-Assembled Monolayers	American Chemical Society	\$135,000.00	\$59,697.00
Civil and Environmental Engineering	Jeanine Plummer		Acoustic Cavitation for Processing Milk in Rural Dairy Farms	Harris Acoustic Products Corporation	\$10,126.00	\$0.00
	Malcolm Ray		LS-DYNA Crash Simulation of the Annisquam River Bridge for Report 350 Test Level Three Conditions	Gill Engineering	\$30,403.00	\$0.00
	Paul Mathisen	Fabio Carrera	Nutrient Load Reduction and Facilitation of Watershed Planning Using a Watershed Information Support System (WISS)	Environmental Protection Agency	\$117,937.00	\$0.00
Computer Science	Robert Lindeman		Enhanced Sensor-Assisted Perception (ESP) Advisor	BBN Technologies	\$249,485.00	\$0.00
Electrical and Computer Eng'g.	Berk Sunar		IC Sensing and Fingerprinting for TRUST (IC SAFE-T)	IBM Corporation	\$847,179.00	\$0.00
	Kaveh Pahlavan		Indoor Geolocation Using RF Multipath Diversity - Draper Laboratory Phase II		\$199,917.00	\$0.00
	Peder Pedersen		Quantitative Freehand 3D Ultrasound for In Vivo Imaging	ImagiSonix, Inc.	\$30,689.00	\$0.00
	Richard Vaz		WPI Project Center at MIT Lincoln Laboratory	Massachusetts Institute of Technology	\$53,976.00	\$0.00
Management	Amy Zeng		Decision Analysis of Backup Agreements as Part of Mitigation and Contingency Strategies for Managing Upstream Supply-Chain Disruption Risks	National Science Foundation	\$150,164.00	\$0.00
Mathematical Sciences	Jayson Wilbur	Suzanne Weekes	REU Site: Research Experiences for Undergraduates in Industrial Mathematics and Statistics	National Science Foundation	\$246,602.00	\$68,714.00

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Mechanical Engineering	Gretar Tryggvason	Direct Numerical Simulations of Nucleate Flow Boiling	Sandia National Laboratory	\$320,000.00	\$0.00
	John Sullivan	Alternative Breast Cancer Imaging Modalities	Dartmouth College	\$402,558.00	\$0.00
Minority Affairs	Calvin Hill	Factors Influencing Career Development of Underrepresented Students and Students with Disabilities Pursuing STEM Careers	University of Southern Maine	\$5,000.00	\$11,657.00
Social Sciences & Policy Studies	Janice Gobert	Finalized and Edited Monograph on Modeling Across the Curriculum (MAC): Accomplishments and Findings	The Concord Consortium	\$18,034.00	\$0.00
<b>Total for August 2006 (17 proposals)</b>				<b>\$2,843,687.00</b>	<b>\$142,895.00</b>