

**Worcester Polytechnic Institute
Report of Proposals Submitted
September 2005**

Department	PI	Co-PI	Project Title	Sponsor	Proposal Amount	Cost Sharing
Biology and Biotechnology	Reeta Prusty		The Secondary Metabolite IAA Regulates Pathogenesis in <i>C. albicans</i>	Department of Health & Human Services	214,764	28,032
Chemical Engineering	Jennifer Wilcox		The Direct Measurement of Mercury Using Electron Impact Mass Spectrometry (EI-MS)	Beckman (Arnold and Mable) Foundation	264,000	135,696
	Robert Thompson	Jennifer Wilcox Nikolaos Kazantzis	Designing Molecular Sponges for Water Treatment	National Science Foundation	506,368	0
	Susan Zhou		Electrokinetically Controlled Rapid DNA Hybridization Detection	Department of Health & Human Services	198,278	0
	Susan Zhou		Rapid and Low Cost Technologies for Anthrax Detection	Department of Health & Human Services	198,283	0
	Terri Comesano		Inhibitory Effects of Chemicals on Mycobacteria	United States Council for Automotive Research	59,998	0
	Terri Comesano		Quantifying the Adhesion Between <i>E.coli</i> and Urinary Epithelial Cells	Department of Health & Human Services	359,926	0
Chemistry and Biochemistry	Kristin Wobbe	Terri Comesano	Molecular Characterization of a Small, Multi-Functional, RNA-Binding Protein	American Chemical Society	120,000	98,782
Mathematical Sciences	Dalin Tang		3D Modeling Based on MRI Patient-Tracking for Atherosclerotic Plaque Progression	Department of Health & Human Services	2,004,409	0
Mechanical Engineering	Daniel Backman		Development of an Accelerated Insertion of Material (AIM) System for an Aluminum 6061 Forged Head Application	Naval Surface Warfare Center	22,874	0
	John Blandino		Plasma Sensor Using Carbon Nanotube Field Emission Cathodes	Busek, Co.	16,233	0
	Yiming Rong	William Durgin	International Research Experience for Students: Establishment of Engineering Project Center in China	National Science Foundation	149,904	0
Physics	Germano Iannacchione		Calorimetric Study of Membrane Protein Stability	American Chemical Society	120,000	61,672
	John Norbury		Total Cross Section for Pion Production in Intermediate Energy Nucleus-Nucleus Collisions	University of Tennessee	71,000	0
	Ramdas Ram-Moham		Multicomponent Diffusion in Triple Junctions, Grain Boundaries, and Nanostructured Materials	Purdue University	241,329	0
Social Sciences & Policy Studies	Elise Weaver		HSD SGER A Collaborative Research: Situational Factors in Emergent Leadership During Emergency Response to Hurricane Katrina	National Science Foundation	26,023	0
Totals for September 2005 (16 Proposals)					4,573,389	324,182