

Worcester Polytechnic Institute
Report of Proposals Submitted
February 2006

Department	PI	Co-PI	Project Title	Sponsor	Total Requested	Cost Sharing
Biology and Biotechnology	Joseph Bagshaw		Structure/Function of Crustacean Neuropeptides	National Science Foundation	\$418,398.00	\$0.00
	Samuel Politz		Genetic Control of Nematode Surface Antigen Switching	Department of Health & Human Services	\$227,100.00	\$0.00
Biomedical Engineering	Kristen Billiar		Regulation of Valvular Interstitial Cell Fate: Role of Stiffness and TGF-beta (NIH R15 AREA Grant)	Department of Health & Human Services	\$207,820.00	\$0.00
Chemical Engineering	Jennifer Wilcox		Novel Scrubber Design for Selective Trace Metal Removal	Environmental Protection Agency	\$9,992.00	\$0.00
	Robert W Thompson	Nikolaos Kazantzis, Jennifer Wilcox	Design and Evaluation of Adsorbents for Water Purification	National Science Foundation	\$559,888.00	\$0.00
	Terri A Camesano		Supplement to CAREER: Molecular-scale Interactions Between Microbes and Surfaces in the Environment	National Science Foundation	\$26,250.00	\$0.00
Chemistry and Biochemistry	Grant McGimpsey		Development of a Deployable Biomarker-Based Health Biomonitor (DBHM)	Active Surface Technologies, Inc.	\$29,372.00	\$0.00
Electrical and Computer Eng'g.	Brian King	David Cyganski	Imaging and Beam Combination in Phased Array Optical Transceivers	Raytheon	\$73,569.00	\$0.00
	Reinhold Ludwig	John Sullivan	Development of Anatomical RF Coil for Unilateral MRI Breast Imaging	U.S. Army Medical Research and Materiel Command	\$102,863.00	\$0.00
	Sergey N Makarov	Reinhold Ludwig	A Foam-Based Dielectric Resonator Antenna Element	National Science Foundation	\$283,852.00	\$0.00
Interdisciplinary & Global Studies	Paul W Davis		Multinational Research and Design Experience for Undergraduates	National Science Foundation	\$149,562.00	\$0.00
Management	Arthur Gerstenfeld		Business Opportunities and the Corporate Constraint Posed by HIV/AIDS in Africa	Department of Education	\$20,973.00	\$8,428.00
	Erwin Danneels		A Panel Study of R&D and Marketing Second-Order Competences	National Science Foundation	\$277,033.00	\$0.00

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Mathematical Sciences	Dalin Tang		Mechanical Image Analysis for Atherosclerotic Plaques	Department of Health & Human Services	\$1,397,426.00	\$0.00
	Vadim Yakovlev		Innovative Radiofrequency and Microwave Resonator Techniques for Dielectrometry of Lossy Liquids	Civilian Research and Development Foundation	\$130,000.00	\$6,682.00
Mechanical Engineering	Cosme Furlong-Vazquez		Computer-based holography and middle-ear function	Massachusetts Eye and Ear Infirmary	\$244,097.00	\$0.00
	Diran Apelian		Planning Study for an Aerospace Materials Consortia	Air Force Office of Scientific Research	\$19,990.00	\$10,280.00
	Nikos Gatsonis		3D Parallel Particle and Hybrid Methods for the Simulation of Partially Ionized Micro/Nanoflows on Unstructured Grids	National Science Foundation	\$279,484.00	\$0.00
	Qingyue Pan	Diran Apelian, Makhoul Makhoul	Low Cost Semi-Solid Processing of Copper Alloys Using the Continuous Rheoconversion Process	The International Copper Association	\$100,000.00	\$11,978.00
Physics	Ramdass L Ram-Moham		Collaborative Research: Geometric and Interfacial Properties of Macroscopic and Nanoscopic Metal-Semiconductor Hybrid Elements and Arrays	National Science Foundation	\$166,054.00	\$0.00
Totals for February 2006 (20 proposals)					\$4,723,723.00	\$37,368.00

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