

2005-2006 Industrial & Economic Development Research (IEDR) Grant Recipients	
Marc Anderson Environmental Chemistry and Technology	An Electrochemical Ion Exchange Assembly for Water Treatment
David Beebe Biomedical Engineering	Understanding Microchannel Fertilization to Guide Product Design and Commercialization
Robert Carpick Engineering Physics	Nanocrystalline Diamond Coatings for Ultrahigh Performance Machine Tools
Steven Cramer Civil & Environmental Engineering	Quadroc - Portland Cement Polymer Concrete Products
Jim Dumesic Chemical & Biological Engineering	Carbon-Supported Catalysts for Production of Renewable Energy by Aqueous-Phase Reforming of Biomass
Sean Fain Medical Physics	Image-Guided Breast Biopsy and Therapy with a Novel Device for Three-Dimensional Access and Localization
Lew Friedland SJMC	Community Knowledgebase Phase 2: Field Test of Social Networking Software and Development of a Natural Language Processing Text Engine
Hasan Khatib Dairy Science	A Positional Candidate Gene Approach for Marker-Assisted Selection in Commercial Livestock Breeding Programs
Krishna Kurpad Radiology	Active Rung Design for B1 Shimming in High Field MRI
Max Lagally Materials Science & Engineering	Cold-plasma-based Modification of Polymer Surfaces for Covalent Biomolecule Attachment
Xiaochun Li Mechanical Engineering	Ultrasonic-Based Processing of Aluminum Matrix Composites Reinforced by Fine Ceramic Particles (1~3 um)
Zhenqiang Ma Electrical & Computer Engineering	Liquid Crystal Polymer (LCP) Based Ball Grid Array (BGA) IC Packages for High Frequency Applications
David Mladenoff Forest Ecology & Management	Tools for Industrial Compliance with the US Endangered Species Act: Mapping Endangered Species Habitat
Dane Morgan Materials Science & Engineering	Novel Tools for Atomic Resolution Nanoscale Analysis: Combined Atomistic Modeling and Atom Probe Methods
Daniel Noguera Civil & Environmental Engineering	Development of a Molecular Method to Identify and Monitor Microbial Communities in the Novel Cannibal™ Process
Frank Pfefferkorn Mechanical Engineering	Friction Stir Welding of Complex Geometries and Dissimilar Materials: Control of Thermal Capacitance Variations
Arthur Polans Ophthalmology & Visual Sciences	Improved SPR Analysis of Protein Interactions Underlying Tumor Cell Survival
Mark Richards Animal Sciences	Methods to Increase the Ability of Cranberry Press Cake Components to Inhibit Quality Deterioration in Muscle Foods
Vadim Shapiro Mechanical Engineering	Field Modeling and Analysis for Biomedical Applications

Sherry Tanumihardjo Nutritional Sciences	The Bioavailability of Lycopene and Vitamin A Value of Freeze-dried "Red" Carrots and Tomato Paste
Raj Veeramani Industrial & Systems Engineering	RFID (Radio Frequency Identification) in Food Packaging
Steve Ventura Land Info. & Comp. Graphics	The Development of a GPS/GIS Integrated Human Power Monitoring, Recording and Analysis Device
John White Molecular Biology	Development of Adaptive Optics for Multiphoton Microscopy
Justin Williams Biomedical Engineering	Rapid Prototyping System for Surface Patterning and Microfluidic Microenvironment Control in Cell Culture Applications