

REPORT OF AWARDS**For the Month of June/2004**

| <u>Department</u> | <u>Investigator</u> | <u>Sponsor</u> | <u>Title</u> | <u>Amount</u> |
|--|----------------------------|---|--|----------------------|
| BIOMEDICAL ENGINEERING | Shonat, R. | UMASS Worcester | Layer-Specific Functional & Perfusion Imaging of the Cat Retina | \$ 10,730 |
| CHEMISTRY & BIOCHEMISTRY | Arguello, J. | NSF | Structure-Function of Heavy Metal Transport CPx-ATPases | \$ 5,000 |
| CHEMICAL ENGINEERING | Ma, Y. | Shell International . Exploration & Production, Inc | Ultra thin Pa & Pd/ Alloy Membranes for Hydrogen Separation and Reaction Applications | \$ 631,285 |
| | Dixon, A. | Johnson Matthey Catalysts | Preliminary Work in Support of GOALI Proposal: Catalysts Design & Detailed Modeling for Fixed Bed Reactors Using CFD | \$ 21,550 |
| COMPUTER SCIENCE | Heineman, G. | NSF | ITR/SY: Features, Components, and Legacy Systems | \$ 120,015 |
| ELECTRICAL & COMPUTER ENGINEERING | Sunar, B. | Intel Corporation | A Hardware Software Co-Design Approach for Flexible Cryptography | \$ 81,901 |
| | Ludwig, R. | Insight NeuroImaging Systems, LLC | Noninvasive Devices for fMRI Studies in Drug Abuse II | \$ 300,000 |
| | Clancy, E. | NIH | Noninvasive Motor Unit Discharge Assessment | \$ 147,897 |

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| FIRE PROTECTION ENGINEERING | Barnett, J. | Battelle | Use of the New Clothing Test Apparatus | \$ | 14,618 |
| MANAGEMENT | Gerstenfeld, A. | Department of Education | Building a Bridge of Knowledge to Africa for Business and International Education | \$ | 90,000 |
| MECHANICAL ENG'G. | Apelian, D. *Makhlouf, M. | DOE | Low Cost & Energy Efficient Methods for the Manufacture of Semi-Solid Feedstock | \$ | 56,000 |
| | Demetriou, M. | NSF | Supervisory Control of Second Order Distributed Parameter Systems: Integrating Robust Actuator Placement and Actuator Switching | \$ | 199,493 |
| | Apelian, D. | General Motors | Development of Computational Methodologies for Assurance Of High Strength Fatigue Resistant Aluminum Castings | \$ | 684,707 |
| | Gatsonis, N. | Busek, Co. | DSMC Modeling of Hypersonic Inlet Flows | \$ | 3,019 |
| MATHEMATICAL SCIENCE | Yakovlev, V. | The Ferrite Company, Inc. | Permittivity Reconstruction with Neutral Networks | \$ | 15,764 |
| | *CPI | | Total | \$ | 2,381,979 |