

**REPORT OF PROPOSALS**

**For the Month of April/2004**

| <u>Department</u>                                | <u>Investigator</u>                                                         | <u>Sponsor</u>                               | <u>Title</u>                                                                                              | <u>Amount</u> |
|--------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|
| <b>BIOENGINEERING<br/>INSTITUTE</b>              | Gerrity, T.<br>*Durgin, W.                                                  | Massachusetts<br>Technology<br>Collaborative | IdeaFoundry-Partnerships for Medical Technology<br>Assessment                                             | \$ 119,814    |
| <b>CHEMICAL ENG'G.</b>                           | Dixon, A.                                                                   | NSF                                          | GOALI: Catalyst Design and Detailed Modeling for Fixed<br>Bed Reactors Using Computational Fluid Dynamics | \$ 329,294    |
| <b>CHEMISTRY &amp;<br/>BIOCHEMISTRY</b>          | Arguello, J.                                                                | NSF                                          | Structure-Function of Heavy Metal Transport CPx-ATPases                                                   | \$ 5,625      |
|                                                  | Arguello, J.                                                                | NSF                                          | International: Thermal Stability of Thermophilic Membrane<br>Proteins                                     | \$ 32,020     |
|                                                  | MacDonald, J                                                                | Army Research<br>Office                      | Design of Porous and Complex Crystalline Materials                                                        | \$ 483,488    |
| <b>CIVIL &amp; ENVIRONMENTAL<br/>ENGINEERING</b> | Plummer, J.                                                                 | UMASS<br>Amherst                             | An Assessment Tool for Managing Water Quality in Rural<br>and Agricultural Watersheds                     | \$ 167,920    |
|                                                  | Mallick, R.<br>*El-Korchi, T.<br>*Banks, M.<br>*Miller, J.<br>*Petrucci, J. | NSF                                          | IGERT: Multidisciplinary Approach to Graduate Education<br>and Research in Pavement Engineering           | \$ 1,024,459  |

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|------------------------------|-----------------------------------------|----------------------------|--------------------------------------------------------------------------------------------|--------------|
| <b>COMPUTER SCIENCE</b>      | Finkel, D.                              | Department of Education    | FIPSE: ATLANTIS (Advanced Technology for Learning in a Net based Information Society)      | \$ 38,448    |
|                              | Heffernan, N.                           | Sonalyt, Inc.              | The Virtual Observer/Controller O/C                                                        | \$ 225,000   |
| <b>MANAGEMENT</b>            | Kasouf, C.<br>*Apelian, D.              | Alfred P. Sloan Foundation | Management Studies in Metal Processing: A Proposal to Develop a Sustained Funding Strategy | \$ 45,000    |
| <b>MATHEMATICAL SCIENCES</b> | Tang, D.<br>*Sotak, C.<br>*Hoffman, A.  | NIH                        | MRI-Based Computational Modeling for Carotid Plaque Rupture and Stroke                     | \$ 1,500,954 |
| <b>MECHANICAL ENG'G.</b>     | Gatsonis, N.                            | Busek Co.                  | Modeling of the Advanced Micro Pulsed Plasma Thruster                                      | \$ 139,447   |
| <b>SS&amp;PS</b>             | Weaver, E.                              | NSF                        | Improving Threshold Setting Decision in a Dynamic Policy Formulation Context               | \$ 128,762   |
|                              | Pavlov, O.<br>Saeed, K.<br>Radzicki, M. | NSF                        | Institutional, Economic, and Legal Dimensions of Online File Sharing                       | \$ 334,165   |
|                              | Pavlov, O.<br>Morales, C.               | NSF                        | A Study into Validity, Robustness, and Calibration of a System Dynamics Model              | \$ 249,333   |
|                              | <b>*CPI</b>                             |                            | <b>Total</b>                                                                               | \$ 4,823,729 |