

Research Awards & Grants: June 2004

(Listed by agency)

Actel Corporation

R. Block; Irradiation at the LINAC Facility; \$8,940

Air Force Office of Scientific Research

L. Myrabo; Third International Symposium on Beamed Energy Propulsion (ISBEP3); \$5,000

Army Research Office

E.F. Schubert; Ultraviolet-Spectrum Light-Emitting Diodes With Omnidirectional Reflectors For High Extraction Efficiency; \$54,450

J. Flaherty, M. Shephard; Adaptive Computation and Modeling for Multiscale Analysis; \$55,000

I. Bhat, T.P. Chow, P. Dutta, R. Gutmann; Integrated High-Voltage, High-Temperature Silicon Carbide Smart Power Devices; \$403,453

Army Medical Research Acquisition Activity

G. Plopper; The Role of Focal Adhesion Kinase Signaling in AU-565 Breast Cancer Cell Migration Through Lung Microvessel Endothelial Cells; \$90,000

B. Yazici; Concurrent MR-NIR Imaging for Breast Cancer Diagnosis; \$400,632

Biosense Webster Inc.

D. Isaacson, J. Newell, G. Saulnier; Catheter Tip Location by Electrical Impedance; \$20,000

Boeing

R. Leslie, N. Narendran; Identify Criteria for Aircraft LED Reading Light; \$42,000

California Energy Commission

P. Morante; The Dayswitch; \$75,000

Cornell University

H. Newberg; NASA/New York Space Grant Consortium; \$17,200

J. Napolitano; Visiting Professor/Joint Appointment Agreement; \$50,000

Electric Power Research Institute

J.K. Nelson; An Examination of the Potential for Nano-Composites in the Formulation of HV Cable Insulation; \$108,632

Greater Syracuse Chamber of Commerce

L. Gerhardt; SATOP Program; \$1,250

Health and Human Services National Institute of Allergy and Infectious Diseases

R. Kane; Designing Inhibitors of Anthrax Toxin; \$246,929

Health and Human Services National Institute of Biomedical Imaging and Bioengineering

J. Stenken; Quantitative Biocompatibility of Implanted Materials; \$219,791

Health Research Inc.

C. Lawrence, W. Wallace; Detecting Subtle Signals In Genomic DNA; \$17,077

Howard Hughes Medical Institute

R. Palazzo; Undergraduate Science Education Program; \$300,000

Lockheed Martin Company Knolls Atomic Power Laboratory

I. Bhat, P. Dutta, R. Gutmann, P. Persans; Thermophotovoltaic Material and Device Research Programs; \$5,000

National Aeronautics and Space Administration Goddard Space Flight Center

J. Ferris; Studies of Photochemical Processes on Titan; \$133,000



National Aeronautics and Space Administration Marshall Space Flight Center

X.C. Zhang; Light Weight Terahertz System; \$350,000

National Science Foundation

C. Carothers, B. Szymanski, M. Zaki; Performance Mining of Large-Scale Data-Intensive Distributed Object Applications; \$6,000

S. Akella; CAREER: Manipulation and Motion Planning of Articulated Objects; \$6,000

W. Colon; CAREER: The Significance of Intermediate Structures In Protein Folding And Assembly; \$95,000

D. Millard; Collaborative Research: Writing for Learning and Assessment in Engineering Design Courses; \$25,688

D. Duquette, L. Schadler, R. Siegel; A PhD Co-op Program; \$92,000

X.C. Zhang; Development of T-Ray Microscope; \$65,017

S. Roecker; Collaborative Research: Discrete vs. Continuous Continental Deformation and the Role of the Lower Crust in the Tien Shan; \$183,001

W. R. Franklin; CG Techniques for Terrain Representation; \$57,825

S. Kumar; Collaborative: Investigation for the Consequences of Cooperative Motion in Polymers and Their Miscible Blends; \$24,000

P. Ajayan; Inter-American Materials Collaboration: Large-Scale Synthesis of N-Doped Carbon Nanotubes for the Fabrication of Novel Polymer Composites and Related Low-Dimensional Materials; \$15,000

M. Fortun; Sequencing for Nitrogen Fixation: An Oral History Project on Rhizobial Research Genomics; \$73,756

M. Shur; Determination of Nitride Semiconductor Parameters Using Light-Induced Transient Gratings; \$150,000

J. Ferris; Catalysis and Prebiotic Synthesis: Steps Toward the RNA World; \$312,000

Naval Research Laboratory

W. Siegmann; Intergovernmental Personnel Act; \$37,354

Office of Naval Research

M. Shur; IEEE Lester Eastman Conference on High-Performance Devices (LEC-04); \$4,452

New York State Dormitory Authority

A. Sanderson; GEN-NY-SYS Center for Bioengineering and Medicine; \$6,250,000

Northrop Grumman Corporation

A. Maniatty; Fatigue Modeling of Polycrystalline Metal Alloys Based on Microstructural Phenomena; \$56,917

Philip Morris, Incorporated

S. Nayak; Interaction of Small Molecules With Metal Oxide Clusters and Surfaces: Catalytic Behavior and Reaction Mechanism; \$13,428

The Fund For Lake George

C. Boylen, L. Eichler; Lake George Water Research Projects; \$60,000

U.S. Department of Commerce National Institute of Standards and Technology

S. Kumar; High Throughput Measurements of Polymer Formulation Properties; \$328,990

U.S. Department of Energy

G. Belfort, R. Kane; Chemical Interactions Between Protein Molecules and Polymer Materials; \$134,000

A. Sanderson; Research Polytech Center for Quantitative Bioscience; \$725,000

U.S. Department of Energy National Energy Technology Laboratory

C. O'Rourke, M. Rea; Reducing Barriers to Use of High Efficiency Lighting Systems; \$285,000

University of Southern California

C. Williams; Development of a Parallelized Three-Dimensional Finite Element Code for Modeling Deformation in Southern California; \$30,000

Virginia Polytechnic Institute and State University

I. Bhat, T.P. Chow, R. Gutmann; Center for Power Electronics Systems; \$20,3

