

**GRANTS AWARDED
FISCAL YEAR 2003-2004**

January 14 through March 26, 2004

James Layzer, Cooperative Fishery Research Unit, "Maintenance of Captive Populations of Endangered Freshwater Mussels," \$6,807, Tennessee Wildlife Resources Agency (through the Water Resources Center)

Amy K. Knox, Water Resources Center, "Family Fishing Lakes Trout Identification Cards Publication Assistance," \$9,500, Tennessee Wildlife Resources Agency.

J. J. Biernacki, Chemical Engineering, "Buckeye Experimentation on Cement With and Without Fibers", \$10,354, Buckeye Technologies, Inc. (through the Manufacturing Center)

Virginia Moore and Kenneth Currie, College of Business Center(s) and the Manufacturing Center, "Small Business Development Center 2003-2004", \$96,702, Tennessee Small Business Development Center (through Manufacturing Center)

Kenneth Currie and Virginia Moore, Manufacturing Center and College of Business Center(s), "Small Business Development Center Matching Funds", \$21,004, Economic and Community Development (through the Manufacturing Center)

J. J. Biernacki, Chemical Engineering, "Supplement to Micro and Meso-Scale Strain Measurements in Cement-Based Materials"(Grant Supplement), \$6,000, National Science Foundation (through Manufacturing Center).

Sastry Munukutla, Center for Electric Power, "Boiler Cleanliness Model at Vicksburg ISB", \$16,500, Clyde Bergeman.

Ben Byler, Agriculture, "Tennessee Association FFA Camp Clements Leadership Grant", \$68,490, Tennessee Department of Education.

John Zhu, Mechanical Engineering, "CAREER: Novel Conductive Oxide Coatings on Metallic Interconnect for Intermediate Temperature SC Year 2", \$120,918, National Science Foundation.

Sastry Munukutla, Electric Power Center, "Study of Power Electronic Converters", \$21,600, Yaskawa Electric America.

James B. Layzer, Cooperative Fishery Research Unit, "Status of the Mussel Fauna in the Green River Within the Mammoth Cave National Park", \$7,500, United States Geological Survey (through the Water Resources Center).

Sastry Munukutla, Electric Power Center, “Center for Electric Power”, \$850,800, Tennessee Higher Education Commission/State of Tennessee..

James B. Layzer, Cooperative Fishery Research Unit, “Propogating Mussels at Tennessee Technological University and Culturing Juveniles at Mammoth Cave National Park”, \$59,464, United States Department of Interior National Park Service (through the Water Resources Center).

Kenneth Currie, Manufacturing Center, “APVS Checkweigher System”, \$12,500, TechWerks L.L.C.

Shelley Painter and Kristen Pennycuff, Curriculum and Instruction, “Child and Adult Care Food Program”, \$21,000, Department of Human Services.

R.L. Kozub, Physics, “Nuclear Physics With Radioactive Ion Beams”, \$50,000, Department of Energy.

Sastry Munukutla and Stephen Idem, Electric Power Center and Mechanical Engineering, “Boiler Cleanliness Model at Homer City”, \$16,500, Clyde Bergemann.

Ismail Fidan and Robert Clougherty, Manufacturing and Industrial Technology and Institute for Technology Center, “Cutting-Edge Enhancement of Tennessee Technological University’s Virtual Manufacturing Practices-SOFTWARE GRANT”, \$21,250, 3 DATUM, Inc.(through the Manufacturing Center).

Michael Harvey, Biology, “Bat Ecosystem Management”, \$10,099, Ozark-St. Francis National Forest, United States Department of Agriculture (through the Water Resources Center).

Satish Mahajan, Electrical and Computer Engineering, “A Robust and Flexible Alternating Current Transformer”, \$39,935, Tennessee Valley Authority (through the Center for Electric Power).

Dennis George and Bradford Cook, Water Resources Center and Biology, “A Comparative Study of the Historical and the Present Ecological State of the Emory River Watershed (HUC TN06010208)”, \$15,667, Tennessee Wildlife Resources Agency (through the Water Resources Center).

Dennis George and S. Bradford Cook, Water Resources Center and Biology, “Collect and Analyze Water Quality Samples From the Emory River Watershed”, \$7,000, Tennessee Valley Authority (through the Water Resources Center).

Daniel Badoe, Civil and Environmental Engineering, “Development of Tennessee Travel Demand Model Users Group”, \$6,500, University of Tennessee-Knoxville (Funded by the Tennessee Department of Transportation)/(through the Center for Electric Power).