

GRANTS AWARDED FY-2002/03

August-November, 2002

(October 21, 2002 - November 1, 2002)

Sharon Berk and John Gunderson (Water Resources Center and Biology), "Animal Model Testing for Novel Pathogens Infecting Amoebae from Cooling Tower Water," \$49,920, U.S. Environmental Protection Agency (through Water Resources Center)

Michael J. Harvey (Biology), "Endangered Bats of Arkansas: Distribution, Status, and Ecology," \$12,000, Arkansas Game & Fish Commission (through Water Resources Center)

Kenneth Currie (Manufacturing Center), "Fleetguard Study/Work Program," (four projects), \$16,093, Fleetguard, Inc.

Kenneth Currie (Manufacturing Center), "Center for Manufacturing Research," \$9,200, Tennessee Higher Education Commission

(October 7, 2002 - October 18, 2002)

Rashad Hanbali (Civil & Environmental Engineering), "Safety Evaluation of Permanent Raised Pavement Markers on Tennessee Highways (Review and Analysis)," \$47,863, University of Tennessee/Tennessee Department of Transportation (through Electric Power Center)

James B. Layzer (Cooperative Fishery Research Unit), "Recruitment of Mussels in a Regulated River," \$10,000, U.S. Geological Survey (through Water Resources Center)

Dennis George (Water Resources Center), "Center for the Management, Utilization and Protection of Water Resources," \$7,200, Tennessee Higher Education Commission

Ken Currie, S. Ramaswamy, and Mark Jackson (Manufacturing Center, Computer Science, and Mechanical Engineering), "Dental Tool Prototype," \$86,635, Wilkinson Dental Devices, Inc. (through Manufacturing Center)

(September 23, 2002 - October 4, 2002)

Hong Zhang (Chemistry), "Effect of Sunlight on Trace Metal Cycling in Aquatic Systems: A Study of Aquatic Mercury Photochemical Cycling in Subtropical Lakes," \$15,000, Private.

Kenneth Currie (Manufacturing Center), "Fleetguard Study/Work Program," \$3,229, Fleetguard, Inc.

Brad Cook, Dan Combs, Ginger Ensor, and Hayden Mattingly (Biology), "Assessment of Stream Habitat and Biological Communities Associated with Bridges and Culverts in Tennessee,"

\$93,940, University of Tennessee/Tennessee Department of Transportation (through Water Resources Center)

Thomas H. Roberts and Mary Peterson (Biology), "Wetland Delineation for the Kings Mountain National Military Park," \$23,973, National Park Service (through Water Resources Center)

L. K. Crouch (Civil & Environmental Engineering), "Evaluation of New PCC Maturity Technology," \$82,426, University of Tennessee/Tennessee Department of Transportation (through Electric Power Center)

L. K. Crouch (Civil & Environmental Engineering), "Tennessee Flowable Fill," \$59,748, University of Tennessee/Tennessee Department of Transportation (through Electric Power Center)

Robert Smoak (Mechanical Engineering), "Advanced Control Design and Implementation Support," \$10,000, Electric Power Research Institute (through Electric Power Center)

Thomas H. Roberts, Kenneth Morgan, and Vincent S. Neary (Biology and Civil & Environmental Engineering), "Development of Regional Guidebook for Evaluating the Functions of Wetlands in the Depression HGM Class in Central and Eastern Tennessee," \$40,085, Arnold Air Force Base Environmental Management (through Water Resources Center)

Kenneth Currie and Srinu Ramaswamy (Manufacturing Center and Computer Science), "Minimizing Life Cycle Costs of Composites through Design," \$60,000, National Center for Advanced Manufacturing

(September 9-20, 2002)

Margaret Phelps, Patt Coleman, Susan Smith, and Fred Kennedy (Rural Education and Music & Art), "Arts for Rural Youth," \$1,000, Tennessee Arts Commission

Michael Harvey (Biology), "Identify and Describe Rare Bat Communities on the Koppers Coal Reserve Properties," \$9,000, Tennessee Valley Authority (through Water Resources Center)

Stephen Robinson (Physics), "Professional Development Materials for Constructing Physics Understanding," \$47,229, San Diego State University Foundation

Sakir Ayik (Physics), "Studies of Fluctuation Processes in Nuclear Collisions," \$33,000, U.S. Department of Energy

Jennifer Rideout Golz, Michael Birdwell, and Homer Kemp (English, History, and Upper Cumberland Institute), "Women's Work A History of Women in the Upper Cumberland, 1920's-1940's," \$4,191, Humanities Tennessee

Tom Roberts (Biology), "Deer Check Stations," \$3,000, Tennessee Wildlife Resources Agency (through Water Resources Center)

Francis Otuonye (Research & Graduate Studies), "U.S.-Brazil Higher Education Consortia Program," \$24,500, New Mexico Institute of Mining & Technology (through Water Resources Center)

Gail Dost, Bruce Benefield, Alec Slinde, and Debbie Kupinsky (Craft Center), "Hands-on Art/Craft Experience for Elementary Students," \$4,800, Tennessee Arts Commission

Kenneth Currie (Manufacturing Center), "UT-CIS Contract for Employee Services 2002-2003," \$50,000, University of Tennessee Center for Industrial Services (through Manufacturing Center)

Kenneth Currie (Manufacturing Center), "Fleetguard Study/Work Program," (five projects), \$22,190, Fleetguard, Inc.

(August 26, 2002 - September 6, 2002)

Glen E. Johnson (Engineering Administration), "Tennessee Space Grant Consortium Award," \$16,500, Vanderbilt University

James B. Layzer (Cooperative Fishery Research Unit), "Status of the Mussel Fauna in the Green River within the Mammoth Cave National Park," \$14,860, U.S. Geological Survey (through Water Resources Center)

Brad Cook (Biology), "Evaluation of Habitat, Macroinvertebrates, and Water Quality Associated with Brook Trout," \$10,000, National Park Service (through Water Resources Center)

Phillip W. Bettoli (Cooperative Fishery Research Unit), "Recreational Fishery of the North Fork of the Holston River," \$14,200, Tennessee Wildlife Resources Agency (through Water Resources Center)

L. K. Crouch (Civil & Environmental Engineering), "Bulk Specific Gravity of Compacted Bituminous Mixtures," \$14,260, University of Tennessee/Tennessee Department of Transportation (through Electric Power Center)

Sastry Munukutla (Electric Power Center), "Real-Time Greenhouse Gas and Performance Monitoring Software for NTPC-DADRI," \$27,000, Energy & Environmental Solutions

(August 12, 2002 - August 23, 2002)

Marcia Reel (College of Business Administration), "SBDC Program Income 2001-2002," \$1,000, Miscellaneous Workshops (through Manufacturing Center)

K. L. Ting (Manufacturing Center), "Theory and Practice of Point Line Kinematics," \$70,056, National Science Foundation

Kenneth Currie (Manufacturing Center), "Fleetguard Study/Work Program," (three projects), \$19,940, Fleetguard, Inc.

Christopher Wilson, Sally Pardue, Darrell Hoy, Joe Richardson, and Corinne Darvennes (Mechanical Engineering), "Understanding the Service Life of Composites," \$60,000, National Center for Advanced Manufacturing (through Manufacturing Center)

Satish Mahajan (Electrical & Computer Engineering), "A Novel Method for the Deposition of Polymer Coatings on Microcantilevers," \$6,200, Oak Ridge National Laboratory (through Electric Power Center)