

GRANT OPPORTUNITIES

Newsletter of the Office of Grants and Program Review

September 2003

UTC Professor Working to Improve Chattanooga Environment Staff Writer: Lindsey N. Gosma, Writing Assistant

UTC's Department of Biological and Environmental Sciences has a distinguished track-record of scholarly and applied research projects focusing on environmental issues. Dr. Robert Keller, Assistant Professor in the Department, contributes to this thriving research community through several projects that focus on conservation in the Southeast.

Dr. Keller received \$399,914 from the Lupton Renaissance Gift Fund to create the UTC Institute of Wildlife Rehabilitation and the UTC Biological Field Station in the Tennessee River Gorge area. The Institute will treat injured wildlife from the area for eventual release. For these projects, Dr. Keller has collaborated with Ms. Debbie Lipsey, director and head rehabilitator of the Institute, Ms. Kathy Gilbert, assistant rehabilitator, and Mr. Jim Brown who serves as a project advisor.

The Institute will serve as a hands-on educational facility for UTC pre-veterinary and environmental science students interested in wildlife rehabilitation. As an educational outreach center, the Institute presents live demonstrations, raising awareness of conservation efforts.

The project's Biological

Field Station will lend its 100 acres of grounds to the Institute for avian rehabilitation pens. Faculty can use the facility to study the ecosystem of the Tennessee River Gorge. Summer courses about the biological systems of the Southern Appalachians will be offered for advanced level students

Dr. Keller's Institute and Field Station exemplify the spirit of the Lupton Renaissance Fund by creating long-term institutional initiatives that transform our campus and enrich the larger community. Dr. Keller's efforts have already attracted national acclaim. Naturalist Jim Fowler, best known as the host of "Mutual of Omaha's Wild Kingdom" came to Chattanooga last year to commend Dr. Keller's efforts to inspire concern for the environment at the Institute's natural settings.

Since joining the UTC faculty in 1999, Dr. Keller has embraced UTC's mission of service and outreach by engaging in activities that aim to conserve public lands. He has initiated a number of preservation projects for the Chickamauga and Chattanooga National Military Park. One study looks at the environmental effects of hikers. Another documents the park's mammal species populations for two years. An inventory of the park's caves, including maps of cave entrances, 3D maps of cave interiors, and a study

of the cave ecology, composes the third study Dr. Keller will conduct.

Dr. Keller is involved with several studies for the Southern Appalachian Information Node of the National Biological Information Infrastructure. These projects aim to digitize scientific data. One project tracks important animal populations, such as the invasive European Wild Boar and the endangered Red Wolf. Recent homeland security concerns have fostered the need for his bio-surveillance database of wildlife diseases.

Dr. Keller's contributions to environmental science include preservation, documentation, and education. He has forged partnerships among the Tennessee River Gorge Land Trust, North Chickamauga Creek Conservancy, and Lula Lake Land Trust to protect 24,000 acres in the Tennessee River Gorge. Recently, Dr. Keller has teamed up with the City of Chattanooga and others to revitalize the Chattanooga Creek area for a public greenway. In his desire to maintain a healthy biodiversity in the area, he will provide the scientific community with a wealth of information that will bring international acclaim to his department and to UTC.

GRANTS AND RESEARCH

August 1, 2003 — September 30, 2003

FUNDED GRANTS

COLLEGE OF ARTS AND SCIENCES

BIOLOGICAL AND ENVIRONMENTAL SCIENCES

DR. TIM GAUDIN

National Science Foundation	RUI—The Early Evolution of the Pholidota and a Reexamination of the Monopoly of the Cohort Edentata (Mammalia)	\$42,405
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DR. ROBERT KELLER

SAMAB	Expansion and Continuation of NBII Project	\$194,500
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CENTER FOR APPLIED SOCIAL RESEARCH

MS. BARBARA MEDLEY

City of Chattanooga	Wellness Study Consultation	\$1,200
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POLITICAL SCIENCE

DR. DEBORAH ARFKEN, DR. DAVID EDWARDS, DR. STEPHANIE BELLAR

U.S. Department of Housing and Urban Development	Community Development Work Study Program in Masters of Public Administration	\$45,000
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SOUTHEAST CENTER FOR EDUCATION IN ARTS

MR. KIM WHEETLEY

Lavine Production Group	Arts Integration in the Middle Grades	\$105,000
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EDUCATION AND APPLIED PROFESSIONAL STUDIES

CENTER FOR COMMUNITY CAREER EDUCATION

MS. CYNTHIA WALLACE

Tennessee Commission on Children and Youth	Youth Investment and Prevention Project	\$29,211
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MS. CYNTHIA WALLACE

U.S. Department of Education	Southern Appalachian Educational Opportunity Center	\$255,385
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EDUCATION AND APPLIED PROFESSIONAL STUDIES

CENTER FOR COMMUNITY CAREER EDUCATION

MS. SANDY COLE

U.S. Department of Education GEAR-UP in Bradley and Walker Counties \$417,968

CHILDRENS CENTER

MS. ANNE GAMBLE, DR. SARAH SANDEFUR, DR. AMYE WARREN

U.S. Department of Education Early SUCCESS \$637,711

COLLEGE OF EDUCATION AND APPLIED PROFESSIONAL STUDIES

DR. HUNTER HUCKABAY

U.S. Department of Education GEAR-UP I \$322,926

DR. HUNTER HUCKABAY

U.S. Department of Education GEAR-UP II \$475,211

MS. BONNIE WARREN

U.S. Department of Education Urban Impact \$593,315

GRADUATE STUDIES DIVISION

DR. TONY LEASE

Public Education Foundation Osborne Fellows Program \$193,553

DR. LLOYD DAVIS, DR. TED MILLER

Public Education Foundation Evaluation of Teacher Quality Initiative \$17,000

PHYSICAL THERAPY

DR. RANDY WALKER

U.S. Department of HHS/
HRSA Allied Health Careers \$271,446

SCHOOL OF NURSING

DR. JANET SECREST

Rehabilitation Nursing
Foundation Changes in Continuity/Discontinuity of Self in Stroke
Survivors: A Reliability, Stability, and Validity Study \$6,000

EDUCATION AND APPLIED PROFESSIONAL STUDIES

SCHOOL OF SOCIAL AND COMMUNITY SERVICES

DR. HELEN EIGENBERG

U.S. Department of Justice Transformation Project \$99,336

TEACHER PREPARATION ACADEMY

DR. LUCIEN ELLINGTON

Freeman Foundation National Consortium for Teaching About Asia \$147,000

ENGINEERING AND COMPUTER SCIENCE

DR. JOSEPH KIZZA

Council for International Research and Lecturing in Computer Science at Makerere
Exchange of Scholars University in Uganda \$45,100

DR. CECELIA WIGAL, DR. JOE OWINO, MR. RICK KEYSER

National Science Foundation Increasing Females and Minorities in Engineering and
Computer Sciences \$336,820

SIM CENTER

U.S. Department of HHS/
HRSA Equipment for Graduate School of Computational Engineering \$491,782

OTHER AWARDS

FINE ARTS CENTER

MR. KIM RENZ

Arts Midwest, National Shakespeare in American Communities Support for
Endowment for the Arts Performances by Aquila Theatre Company \$2,000

MR. KIM RENZ

Tennessee Arts Commission Attendance at Performing Arts Exchange \$350

STUDENT SUPPORT SERVICES

MS. SHIRL GHOLSTON

U.S. Department of Education Student Support Services \$263,171