

Grants Awarded Report

From: 10/1/09 to 10/31/09

Project Title: Smart Grid Research

Activation Amount: \$415,000.00

Agency: Oak Ridge National Laboratories

Personnel:

PI - Sastry Munukutla, Energy Center

Senior Personnel - Ambareen Siraj, Computer Science

Senior Personnel - Ghadir Radman, Electrical and Computer Engineering

Senior Personnel - Jie Cui, Mechanical Engineering

Senior Personnel - John Peddieson, Mechanical Engineering

Senior Personnel - Joseph Ojo, Electrical and Computer Engineering

Senior Personnel - Omar Elkeelany, Electrical and Computer Engineering

Senior Personnel - Robert Craven, Energy Center

Senior Personnel - Wenzhong Gao, Energy Center

Abstract:

In this project, the work will focus upon frequency network (FNET) activities and activities pertaining to Smart Grid Research. Frequency study of grid through theoretical and physical models is an important component of this project.

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From: 10/1/09 to 10/31/09

Project Title: Tennessee Ollie Otter's Statewide Seatbelt and Boosterseat Education Campaign

Activation Amount: \$112,585.00

Agency: Governors Highway Safety Office

Personnel:

PI - Kevin Liska, Business Media Center

Support Personnel - Julie Brewer, Business Media Center

Support Personnel - Michelle Wright,

Abstract:

The Governors Highways Safety Office, Ollie Otter's Seatbelt and Booster Seat Safety Program is an ongoing project that has impacted over 100,000 children from 5,000 classrooms in schools representing all 95 counties. Strong Internet infrastructure at www.seatbeltvolunteer.org allowed the project logistics to run smoothly and effectively. Web logistics included a detailed state wide map documenting all school activity at the county level including presentation dates, press releases, letters to Ollie, artwork from kids. A visual database showcases pictures mailed after the school presentations enabling teachers to communicate Ollie activities with parents. An Internet database video system featured endorsements from 20 key state leaders, 40 principals and teachers, sample school presentations, and step-by-step guidelines. The Press database system features over 400 press releases involving local volunteers and school leader with presentation quotes and pictures. A unique volunteer recognition system helped motivate over 400 volunteers by showcasing activities and rank ordering the volunteers with the greatest activity. Volunteers were trained with the online classroom training system by TBR featuring weatherman style videos and a strong course management platform allowing for individual testing and continuous improvement. Schools enroll in the program online and schedule presentations in real-time. Search engine optimization efforts resulted in securing Goggle's number 1 position for "booster seat education" and "Ollie otter." The website also included numerous photographs of Governor Bredesen, Commissioners, Senators, and Representatives supporting the project. Finally, over 25 sponsors received formal recognition. The project web site also acted as a resource page allowing links with the CPS project and facilitating requests for promotional material. Project leaders look forward to the opportunity to reach out to all Tennessean's and save lives by educating constituents about the importance of the Booster Seat and Seatbelt safety message. The project is the nation's first statewide, comprehensive k-12 booster seat/seatbelt education campaign.

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From: 10/1/09 to 10/31/09

Project Title: Center for Teaching & Learning in Science, Technology, Engineering and Math (STEM)

Activation Amount: \$750,000.00

Agency: NASA

Personnel:

Co-PI - Sally Pardue,

PI - Glenn Binkley, Facilities and Business Services

Abstract:

This project will provide funding to obtain equipment for infrastructure technology and programmatic support materials for the Millard Oakley STEM Center for the Teaching and Learning of Science, Technology, Engineering and Mathematics. The equipment will support learning studios as well as enhance the implementation of curricular and research activities proposed for the Center.

Grants Awarded Report

From: 10/1/09 to 10/31/09

Project Title: Center for Manufacturing Research 2008-09 Carryover

Activation Amount: \$72,220.00

Agency: Tennessee Higher Education Commission

Personnel:

PI - Kenneth Currie, Manufacturing Center

Abstract:

carryover funds from 2008-09 for Manufacturing Center

Grants Awarded Report

From: 10/1/09 to 10/31/09

Project Title: TBR - Teaching Quality Initiative Marketing

Activation Amount: \$10,000.00

Agency: Tennessee Board of Regents

Personnel:

PI - Kevin Liska, Business Media Center

Abstract:

The goal of this project is to develop, revised, and maintain the Teaching Quality Initiative website.

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From: 10/1/09 to 10/31/09

Project Title: A&D: Global Studies Immigration Colloquium

Activation Amount: \$3,000.00

Agency: Tennessee Board of Regents

Personnel:

PI - Julia Baker, Foreign Languages

Senior Personnel - Deborah Barnard, Foreign Languages

Senior Personnel - Mark Groundland, Foreign Languages

Abstract:

The primary purpose of this project is to address the issues, challenges, and positive aspects of immigration, as they occur in our globalized world. Both the Global Studies Immigration Course and the Colloquium are designed to impact the campus climate in a positive way by raising campus and community awareness of local and global immigration issues. The Global Studies Immigration Course is offered as a Special Topics Course in the Department of Foreign Languages. It ties in with TBR general goals of access, multiculturalism and diversity. By virtue of its international content and scope, the Course as well as the Colloquium correspond with TTU's commitment to a diverse and inclusive campus environment, while simultaneously strengthening relationships with the larger local community. While the Global Studies Immigration Course will familiarize students with the current literature on globalization and immigration, the Colloquium will enable students to come in direct contact with immigrants as well as professionals who work in immigration-related fields.

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From: 10/1/09 to 10/31/09

Project Title: Compost and Drip Irrigation Effects on Soil and Water Quality, Soil Carbon/Nitrogen Ratios, Earthworms and Crop Yields in Organic Vegetable Plots

Activation Amount: \$51,538.00

Agency: U. S. Department of Agriculture

Personnel:

Co-PI - Bruce Greene, Agriculture

Co-PI - James Baier, Agriculture

Co-PI - Janice Branson, Agriculture

Co-PI - Jed Young, Agriculture

Co-PI - Michael Best, Agriculture

PI - Kim Stearman, Water Center

Abstract:

The project objective is to determine compost and drip irrigation effects on soil and water quality properties, carbon/nitrogen ratios, earthworms, and crop yield and quality on organic tomato/kale plots. Microbial biomass, soil respiration, soil organic carbon/nitrogen ratios, earthworm activity, water and sediment runoff, and crop quality and quantity will be determined on the plots.

Grants Awarded Report

From: 10/1/09 to 10/31/09

Project Title: Special Ed Programs and Services-Assistive Technology Grant

Activation Amount: \$5,000.00

Agency: Tennessee Department of Education

Personnel:

PI - Carl Owens, Curriculum and Instruction

Abstract:

Tennessee Tech University has contracted with the Tennessee Department of Education to make available to students in Special Education teacher preparation programs and students who are required to enroll in "Introduction to Special Education" in Tennessee Institutions of Higher Education, information and practice with various assistive technology programs and devices.