



The Basic Facts

Volume 4, Issue 10 October 2003

The Basic Facts, College of Basic and Applied Sciences, Middle Tennessee State University, Murfreesboro, TN

NLNAC Accreditation Visit

The Science of Success

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Three representatives from the National League for Nurses Accrediting Commission (NLNAC) visited MTSU September 30 through October 2 to review our nursing program. The accreditation team had already read the self-study (<http://mtsu32.mtsu.edu:11238/CCNE>) and wanted to see first-hand our faculty, our students, our facilities, and our commitment to the nursing program. I think they were impressed. More than once the team chair lauded the talented, well-credentialed faculty. The preliminary report has us meeting all 28 standards and expecting the maximum accreditation term. Special thanks to Dr. Lynn Parsons, the faculty, staff, and students!



\$3.2M HUD Lead Elimination Action Program (LEAP)

Two hundred school children across Tennessee will live in healthier homes, homes without unhealthy levels of lead as a result of the new U.S. House and Urban Development grant received by Drs. Don Beard and Kathy Mathis (both faculty members in Engineering Technology and Industrial Studies). The MTSU LEAP will provide lead abatement

from homes of school children who have been identified as at-risk because of lead levels. The first set of homes are expected to be abated before the holidays. In addition to HPER faculty, Drs. Peggy Murdock

and Norman Weatherby, there are several significant committee partners including personnel from the Tennessee Department of Environment and Conservation (TDEC), Tennessee Department of Health, Tennessee Regional Health Departments and private partners including the Center for Construction Education and Training, Lowe's Home Improvement Corporation, AmeriCorps, and a metro Nashville faith-based group.



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<http://www.mtsu.edu/~collbas/newsletters>

\$400K NSF CSEMS Grant



Drs. Chrisila Pettey (CSCI) and Ray Phillips received word in September 2003 that their proposal for Computer Science, Engineering Technology, and Mathe-

matics Scholarships (CSEMS) was funded at a rate of \$100,000 per year for four years. Twice before Drs. Phillips and Cheatham wrote successful two-year CSEMS proposals. Literally hundreds of students from these



three departments have received scholarships from this funding over the past three years. Scholarships are \$3,125 for CSEM students who demonstrate need. Dr. Pettey is currently the CSEMS program coordinator.



The Basic B.E.S.T. (Boastful Educators Sharing Talents)

All departments are invited to submit items for this column

Agribusiness/Agriscience

Warren Anderson presented, "The Earth, an Environmental Odyssey" to the Murfreesboro Garden Lover's Club on September 12.

MTSU hosted the Rutherford County 4-H - FFA Land Judging Contest at the Beef Farm Laboratory on September 17. A total of 75 students and coaches attended this event, representing six Rutherford County high schools.

Warren Anderson and **Tony Johnston** attended the annual meeting of the Multi-State Research Coordinating Committee/Information Exchange Group September 17 and 18 in Clarksville, Tennessee. **Tony Johnston** was elected secretary of the organization for the 2004 meeting to be held in Texas.

Tony Johnston and the School of Agribusiness and Agriscience hosted a seminar by Dr. Alan Grusby, Director of International Sales for Archer Daniels Midland Company on September 24. Dr. Grusby travels the world assisting meat processors with improving their products through the addition of soy protein products. Twenty-six students attended the seminar, along with **Warren Anderson** and **Harry Djunaidi**.

On September 19, **Warren Anderson** attended the meeting of the Soil and Water Conservation Society at Henry Horton State Park. At the meeting, he reported on the history of the chapter as well as the 4-H - FFA land judging contest in Spring Hill, Tennessee held September 30.

Warren Anderson, along with three of his students and 50 other volunteers, removed woody invasive exotic plants and trash from Old Fort Park and Stones River Battlefield on National Public Lands Day September 20.

Harley Foutch presented a program to the Kiwanis Club of Murfreesboro. The two recipients of the Kiwanis Club Scholarship accompanied him to express their thanks for their support.

Harley Foutch attended a planning meeting to establish a Governor's School for Agricultural Sciences. This school will be held during the summer of 2004 with the University of Tennessee

at Martin hosting the program and MTSU providing courses and topics.

Harley Foutch attended the annual conference of the American Association of State Colleges of Agriculture and Renewable Resources in Amarillo, Texas. As past president, he chaired the nominating committee and presented a report on the MTSU ABAS program.

Biology

The MTSU Center for Environmental Education launched a statewide social marketing campaign on September 16 at a kick-off event at the Ellington Agricultural Center in Nashville. This campaign is designed to make Tennessee residents understand how individual actions can contribute to water quality by raising awareness, and at the same time, help local stormwater officials meet national requirements for public education and outreach efforts. Among those giving opening remarks were Dr. Kaylene Gebert and **Karen Hargrove**, MTSU Center for Environmental Education and WaterWorks! Coordinator.

The Tennessee Environmental Educational Association (TEEA) awarded **Pandy** and **Bob English** as the "Outstanding Environmental Educator of the Year" at TEEA's annual conference at Fall Creek Falls September 19-21. This team of exceptional environmental educators has given unique and long-standing service to their community of Middle Tennessee and to the state as a whole.

Chemistry

Preston MacDougall attended the 226th national meeting of the American Chemical Society on September 8 in New York City. The symposium in which he participated was entitled, "Computational Chemistry in Drug Discovery: Are High Information Content Calculations Better than Low Information Content Calculations?" Standing in the affirmative, he gave a visually impressive presentation based on his collaborative research with the NASA Ames Research Center entitled, "Fleshing-Out Pharma-

cophores with Volume Rendering of Molecular Charge Densities and Hyperwall Visualization Technology."

Computer Science

Ralph Butler and **Chrisila Pettey** had a paper accepted for the Hawaii International Conference on Computer Sciences in January 2004. The paper is titled, "Using and Developing Open Source Tools for Cross-Platform Multilingual Computing."

Jungsoon Yoo is serving as mentor to 13 Computer Science students who were selected to participate in the National Science Foundation (NSF) Computer Science, Engineering Technology and Math (CSEM) scholarship program during the fall 2003 semester.

Jungsoon Yoo (PI), with Co-PI's **Judy Hankins**, **Cen Li**, **Chrisila Pettey**, and **Sung Yoo** have been awarded a National Science Foundation grant in the amount of \$99,863 effective September 2003 through June 2005. MTSU will provide matching funds in the amount of \$44,660.

Engineering Technology/Industrial Studies

As part of the Industrial Quality Technology course taught by **David Gore**, there are 18 undergraduate students and 5 graduate students working in six companies. Teams of 3-4 students are working on a Six-Sigma project to solve a quality problem in these manufacturing facilities which range from automotive part suppliers to food product suppliers in Murfreesboro, Shelbyville and Tullahoma. Upon successful completion of the project and passing a certification exam, each student will be awarded a "Greenbelt" certification in Six-Sigma recognized by industry and business.

Math

Ginger Rowell is Co-PI on an NSF Statistics Educational Digital Library grant proposal as part of a

subaward to Ohio State University. The subcontract will allocate MTSU \$73,999 for October 2003 through September 2005.

Military Science

The ROTC department said goodbye and good luck to Second Lieutenant Seth Olmstead as he left for the Ordnance Officer Basic Course. In September, the MSI and MSII cadets completed a field trip in Ocoee. Approximately 80 freshmen and sophomore ROTC cadets worked together on team building exercises (low ropes course, high ropes course, climbing wall, rappelling) then hit the Ocoee River for a chilling but fun white water expedition.

The ROTC Battalion took its monthly Army Physical Fitness Test (push-ups, sit-ups and 2-mile run along with a weigh-in). The cadets' improved scores proved that the hard physical training paid off.

Physics

Dr. Alf Siochi, a radiation oncology physicist from St. Jude Children's Research Hospital in Memphis, presented a talk on the treatment of cancer with radiation beams to the Department of Physics and Astronomy.

Vic Montemayor's radiation oncology physics class visited the Radiation Oncology Physics Department at the Vanderbilt-Ingram Cancer Center. The students in the class will be observing procedures in Stereotactic Radiosurgery and High Dose-Rate Brachytherapy at Vanderbilt as a part of their semester project for this course.

CBAS

Jim Van Wicklin joined the College of Basic and Applied Sciences as Development Officer on October 6.

Transferring from CSCI, **Dianne White** joins CBAS as Executive Secretary to the dean.

