



The Basic Facts

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

MTSU Hosts Regional Science Olympiad Competition

The Science of Success

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Under the direction of Chemistry professors Pat Patterson and Amy Phelps, MTSU hosted the Regional Science Olympiad Competition in February. This was the ninth year for us to host this competition and the first time all 23 events were offered for both Division B (middle school) and Division C (high school). Three hundred students and 50 teachers were on campus for this event. There were 45 faculty members, 5 staff members, 40 MTSU students, and 10 others unaffiliated with MTSU who helped to make this the most successful competition to date. State Farm Insurance contributed \$2,400 for scholarships for participating teams. The Science Olympiad is an international nonprofit organization



devoted to improving the quality of science education, increasing student interest in science and providing recognition for outstanding achievement in science education by both students and teachers.



The chemistry lab is one of the 23 events offered



Athletic-style medals are awarded for each event

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Earmarks for CBAS Programs



With support from the Tennessee delegation in DC, President McPhee and Joe Bales, three major projects were included as earmarks in the federal budget. Senator Frist was responsible for a \$1M earmark for the nursing facility, while Congressman Gordon was responsible for an additional \$250K for the Naked-Eye

Observatory and \$200K for the creation of the Center for Cedar Glade Studies. Eric Klumpe (PHYS) is primarily responsible for the Naked-Eye observatory project which received \$340K support last year. Jeff Walck,

Kim Sadler, Cindi Smith-Walters, and Tom Hammerly (BIOL) are responsible for the Cedar Glade project. President McPhee and Vice President Joe Bales were in DC in early March seeking additional support from the next federal budget cycle.



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

NJATC Pledges \$300K to ETIS

The National Joint Apprenticeship & Training Committee (NJATC) of the National Electrical Contractors Association and the International Brotherhood of Electrical Workers formed a partnership with MTSU to develop a bachelor's program in electrical construction management technology. The new program under develop-

ment at MTSU will be fully on-line and will provide educational opportunities to electrical apprentices and journeymen. Pellissippi State offers an associate degree for the NJATC

workforce. NJATC will provide the ETIS Department \$60,000 per year for five years to support the development of this unique program.





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

All departments are invited to submit items for this column

Aerospace

Paul Craig, Wayne Dornan, Terry Dorris and **Tom Cheatham** flew to the NASA Langley Research Center in Virginia and made a presentation to the NASA Aviation and Safety Review Board on the SAFER Project.

John Bertrand and **Kim Brown** traveled to Kansas City to the Garmin International world headquarters for industry training on the new "glass cockpit" G-1000 flight system that will be used in the SAFER project.

Agribusiness/Agriscience

The Equestrian Team ended its regular Hunter Seat competition season at Murray State University in March. They were named High Point Team over teams from eight other colleges and universities.

Dionne Stigge and **Rusty Rea** advanced to the national competition after being named High Point Riders in their respective divisions.

John Haffner made four presentations at the Horse Science Center in March.

Biology

Judith Shardo co-authored a paper titled "Development, Growth, and Yolk Utilization of Red Snapper (*Lutjanus campechanus*) Yolk-Sac Larvae."

Cindi Smith-Walters and **Padgett Kelly** are working to revive the presidential award-winning Conservation Education Now for Tennessee Students (CENTS).

The MTSU Center for Environmental Education hosted the winter regional meeting of the Tennessee Environmental Education Association in Nashville. **Karen Hargrove**, Natural Resources Coordinator, **Cindi Smith-Walters** and **Padgett Kelly** helped plan and coordinate this meeting.

Cindi Smith-Walters is currently serving as a reviewer for "Nab the Aquatic Invader! Be a Sea Grant Super Sleuth" website.



Chemistry

Tibor Koritsanszky had a paper published in *Chemical Physics Letters* as well as papers published in *Chemistry* (a European journal), *Angewandte Chemie*, and *Journal of Physical Chemistry*.

Amy Coffey, an undergraduate research student and a senior at Smyrna High School, placed third at the 39th Tennessee Junior Science and Humanities Symposium. Amy received a \$1,000 scholarship and will go to the national competition in April in Baltimore.

Gary Wulfsberg, Tibor Koritsanszky, and **James Howard**, along with four students, published "The Weakly Coordinating Trichloromethanesulfonate Anion: NQR Comparison of its Coordinating Abilities With Those of the Chloroacetate Ions" in the March issue of *Inorganic Chemistry*.

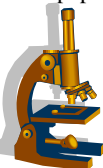
Computer Science

Ralph Butler represented Argonne National Laboratory at Burnham Institute in San Diego, California. Groundwork was laid for a potential collaboration on a number of topics including development of new software to automatically annotate genomes.

Suk Jai Seo presented "Colored Problem for Graphs" at the 35th Southeastern International Conference on Combinatorics, Graph Theory and Computing in Boca Raton, Florida, in March.

Jungsoon Yoo, Sung Yoo and **Judy Hankins** presented "Designing an Adaptive Tutor for CS-II Laboratory" in the NSF CCLI Showcase at the SIGCSE Conference in Norfolk, Virginia in March. **Sung Yoo** also presented a paper titled "Remote Access Networking Laboratory."

Computer Science student **K. Ryan Oberleitner** received an undergraduate research grant and will



present his findings at the Undergraduate Research Symposium at MTSU in April. **Jungsoon Yoo** is his faculty research supervisor. Graduate student **Jon Price** published "Making the Count" in the March 2004 issue of *Hardcore Visual Basic*.

Engineering Technology/Industrial Studies

David Gore recently received two awards: "Distinguished Educator Award in Distance Learning" presented by the MTSU Division of Continuing Studies and "Innovations Award Winner" presented by the Tennessee Board of Regents Distance Education Committee.

Military Science

Congratulations to the Senior Cadets in Army ROTC. The following cadets recently received their branch choices as follows:

- ♦ **Dustin Anderson**, Active Duty, branched Ordnance branch detailed to Infantry.
- ♦ **Jonathan Barbee**, Army Reserve, Aviation.
- ♦ **Chris Boyd**, National Guard, Aviation.
- ♦ **Michael Carrion**, Active Duty, Infantry.
- ♦ **Alan Feinstein**, Active Duty, Military Intelligence.
- ♦ **Timmy Green**, National Guard, Military Intelligence.
- ♦ **Shiloh Harless**, Active Duty, Military Intelligence.
- ♦ **Jesse Hill**, Active Duty, Aviation.
- ♦ **Amy Johnson**, Active Duty, Aviation.
- ♦ **Richard Stackpole**, Active Duty, Signal Corps.
- ♦ **Janna Woods**, National Guard, Finance.



Nursing

Linda Covington

published a book chapter in *Teaching Nursing: The Art and Science* titled "Cultural Diversity: Teaching Students to Provide Culturally-Competent Nursing Care."

Lynn Parsons presented "Mapping Your Way to Success on the NCLEX-RN: Management in Nursing" on April 2, 2004 to the graduating senior nursing students at Roane State Community College in Harriman Tennessee.

Anita Crockett presented "Operational Ethics for 21st Century Students" at the CBAS Teaching-Learning Seminar series in March.

Ken Edmisson was a reviewer for the book titled *Teaching Nursing: The Art and Science*.

Physics & Astronomy

Mari Weller spoke to several 8th grade science classes at Brentwood Middle School in March about the scientific process, what individual scientists do, and how these fit together.

Bill Robertson presented "Developing a Novel Biosensor Based on Surface Optical Waves in Photonic Band Gap Films" at Rhodes College.

Bill Robertson and undergraduate physics major **Curtis Baker**, along with recent physics graduate **C. Brad Bennett**, were co-authors of a paper published in the February issue of *The American Journal of Physics* entitled "Slow Group Velocity Propagation of Sound Via Defect Coupling in a One-Dimensional Acoustic Band Gap Array."

CBAS

Trevor Brown, TLSAMP participant and Computer Science major, has been selected as a 2004 SIPHER Summer Research Program Participant at Vanderbilt University.

