



# The Basic Facts

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

The Science of Success

## 727 Lands in Murfreesboro

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Employees from CBAS who received nominations for Employee of the Year included: Robbie Caldwell (NURS), Nancy Garner (MS), Ann Nored (CHEM), Deborah Rowland (BIOL), Lewis Tigg (CHEM), Chuck Conway (ETIS), and Marlene Lawson (Dean's office).

**Congratulations to Lewis Tigg (CHEM) for receiving the Classified Employee of the Year Award.**

**M**TSU Aerospace Department received the donation of a Boeing 727-100 freighter from FedEx on May 7, 2002. When permanently positioned, the plane will become a laboratory for aircraft maintenance technician students. With the interior stripped to haul cargo for FedEx, the various systems of the plane will be accessible to students for hands-on experience. The planned placement of the plane will allow students to raise and lower the landing gear, work the flaps and pressurization system, as well as perform a variety of maintenance checks on engines, generators, and other equipment. This plane will provide invaluable experience for the aircraft maintenance students.



Arriving at approximately 8:15 that morning, the plane dropped out of the

clouds and made a spectacularly smooth landing on a shallow flight path. Not even needing to use the brakes, the pilot used only about 2000 feet of runway before taxiing onto steel plates placed to protect the runway. After removing fuel and performing other minor adjustments, the plane was pushed by a tug to the location where it will be temporarily sited until a permanent pad can be constructed near the MTSU hangar.

FedEx and MTSU have many ties through the alumni of the Aerospace program. Gary Lyons, head of aircraft maintenance planning in the Indianapolis operation for FedEx, was an MTSU aerospace student in the 80's and had the original idea for this gift. The plane, due to be retired, would normally be flown to the California/Nevada desert and then chopped up for parts. Thanks to the generosity and hard work of many, this plane will instead provide many years of valuable service for MTSU students.

The College of Basic and Applied Sciences, the Aerospace Department, and MTSU would like to thank all of the individuals and entities which provided support and logistics for the landing of the 727: FedEx; Chad Gerhke, Airport Manager; City of Murfreesboro; Airport Commission, City of Murfreesboro; the pilots and a navigator who donated two days of their time and their expertise; and, the inspectors, engineers, and other planners who worked to provide a seamless plan for landing. In addition, the college would like to extend thanks to the administrative personnel who facilitated the paperwork and the contacts. A special thank you goes to President Sidney McPhee and Vice President Duane Stuckey, Business and Finance, for their assistance and support.



## New Academic Advisor Comes on Board

**K**aren Case recently joined the Dean's staff as Academic Advisor/Program Coordinator.



Karen completed her Master's Degree in Education at Tennessee Tech in 2000 and her Bachelor's Degree in Psychology is from Wilson College in Pennsylvania where she also received certification in Elementary Education. She grew up in New Jersey and taught elementary school for a few years in the Washington, D. C. area. Karen comes to

MTSU from TTU in Cookeville where she worked for 17 years as a departmental secretary. During that time, she worked closely with students and served as a resource person to academic advisors. She says, "I have experience coordinating departmental events and student internships. I hope that my past experience will serve me well as I learn all there is to learn here in my new position!"

Her husband, Steve, works in telecommunications in Cookeville, and they have one son in graduate school at NCSU in Raleigh and another son about to enroll in graduate

school at George Washington University in Washington, D.C. Karen's mother is originally from Murfreesboro and her parents currently live in the Blackman community in Murfreesboro.

"Thank you all for the warm welcome I have already received. I look forward to meeting the faculty, staff and other administrators in the College."

Karen can be reached at her office in Jones Hall 119 or email her at [kcaser@mtsu.edu](mailto:kcaser@mtsu.edu). Her extension number is 5087.

## CBAS Honors Students Who Received Academic Awards, Scholarships, and Fellowships,



**O**n April 25, 2002, CBAS honored students who had attained academic excellence during the past three semesters. The college also recognized those students who

had been awarded scholarships, received fellowships, or various other awards offered by the departments.

The annual awards ceremony was opened by Dr. Thomas Cheatham, Interim Dean, giving a brief welcoming speech and was then turned over to The Honorable John Hood, Tennessee House Representative,

who served as Master of Ceremonies. This was Representative Hood's second year to serve in that capacity and as usual he did an outstanding job.

Dr. L. Diane Miller, Interim Vice Provost for Academic Affairs very graciously honored the college in giving the Presentation of Honor Students. There were 41 students who attained the status of Senior Honor Students for this academic year. The criteria for Senior Honor Students is that the student must be a major in the college, must have completed 48 hours coursework at MTSU, must have a minimum of 90 cumulative earned semester hours, and must have 3.75 overall GPA and at least 3.75 GPA for coursework taken at MTSU.

Many more students were honored and recognized by

each department by receiving awards, scholarships, and/or fellowships.

The Academic Awards Committee for the Spring 2002 Academic Awards was comprised of the following members: Dr. Sung Yoo, Chair (CSCD), Dr. Joe Mehlhorn (ABAS), Mr. Bill Allen (AERO), Dr. Padgett Kelly (BIOL), Dr. Judith Boncamp (CHEM), Dr. Don Beard (ETIS), Dr. Lisa Bloomer (MATH), Ms. Anita Kinslow (NURS), MSG Lamar Powell (MS), and Dr. Charles Higgins (PHYS). A special "thank you" goes to all those who served on the committee for all their hard work in making the event such a wonderful success. In addition, we want to extend our appreciation to Lance Allen for providing his excellent music for the reception.



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

All departments are invited to submit items for this column

### Aerospace

**Robert Phillips** (LTC USAR, Ret), presented the American flag to Mrs. Bertha Fulghum at the ROTC ball held at the Stones River Country Club in April. Joe R. Fulghum, Jr. was shot down at midnight on the 2nd of February 1967 just after making a medical evaluation pickup five miles north of Bien Hoa, South Vietnam. All on board were killed instantly. Joe Fulghum and Robert Phillips served together for six years. They both graduated from MTSU in 1962 and then reported to active duty the next morning at Fort Benning, GA. Both completed ROTC flight training at MTSU so the pair went right on to helicopter medical evacuation training. Eventually both Phillips and Fulghum were sent to Vietnam and were based on the same field. Joe's father operated Joe and Frank's Market on College Street in Murfreesboro.

### Agribusiness/Agriscience

The School of Agribusiness/Agriscience and the Department of Biology Center for Environmental Education jointly hosted a two day GLOBE workshop on soils. On May 7th, selected K-9 grade teachers were trained to teach GLOBE soil protocols to their students and on May 8th MTSU faculty were trained how to teach GLOBE protocols to K-12 teachers. Volunteers were **Mark Abolins** (GEOL), **Warren Anderson** (ABAS), **Sing Chong** (CHEM), **John DiVincenzo** (CHEM), **Amy Phelps** (CHEM), **Mark Laport** (CHEM), **Kim Sadler** (BIOL), and **Cindi Smith-Walters** (BIOL).

### Biology

**Thomas Hemmerly's** book, *Ozark Wildflowers* will be released in early May. The book is published by Georgia Press. Also, he was awarded a plaque "Award of Merit for Outstanding Service to Tennessee State Parks Programming" for 25 years of support of the Wildflower Pilgrimage at Cedars of Lebanon.

**Sarah Barlow** recently received the Outstanding Honors Faculty Award for 2001-2002 which was presented by MTSU College of University Honors.

**William H. Butler, Jr.** was honored in April at the Eleventh Annual Ebony Achievement Award Banquet with the "Outstanding MTSU Faculty Member of the Year" award for 2002.

### Chemistry

**Pat Patterson** presented a paper at the Pathways to Change 2002 Conference in April

entitled "Making the Connection-A Physical Science Course for Preservice K-8 Teachers."

**Norma Dunlap** presented a paper in April entitled "Synthesis of Cyclopropyl Peptidomimetics of D-alanine-D-alanine as Potential Antibacterials at the American Chemical Society meeting in Orlando, FL. She also had a paper accepted for publication in *Tetrahedron Letters* entitled "A General Procedure for a One-Pot Oxidative Cleavage/Wittig Reaction of Glycols."

**Pat Patterson and Amy Phelps** along with 12 students from Patterson's PSCI 4030 preservice physical science course assisted with hosting duties at the Regional Science Olympiad in February.

**Jesse Carrick** (senior Chemistry major) won an American Chemical Society (ACS) Travel Award to go to the national ACS meeting in Orlando, FL held in April.

**James Jones** (senior Chemistry major) and **Jesse Carrick** presented a poster at the ACS national meeting in April entitled "Synthesis of Peptidomimetics of D-alanine Using an Oxidative Cleavage/Wittig Sequence."

### Engineering Technology/Industrial Studies

The annual meeting of the CIM Executive Committee was held Thursday, May 9. Twenty executives from across the country spent the day discussing the CIM program. They reviewed accomplishments for 2001-2002 and made plans for next year.

**Walter Boles** spent the summer 2001 at NASA's Johnson Space Center working with the Engineering Directorate. He investigated part of what NASA calls "in situ resource utilization" or ISRU. Specifically, he studied the effects of the soils on the Moon and Mars and how they may affect surface equipment. The work resulted in a report that described soil properties, issues regarding excavating the soil, and issue regarding contamination of seals, moving joints, and habitat contamination. He also included in his report a section regarding manufacture and use of hydraulic cement concrete on the Moon and Mars. His work will continue for the 2002 summer at Marshall Space Flight Center in Huntsville, AL, where he will investigate methods of collection and beneficiation of the soils for subsequent processing to obtain useful elements such as oxygen for breathing and rocket fuel or metallic components for hardware fabrication.

### Mathematical Sciences

**Dovie Kimmins and E. Ray Phillips** presented a paper in April at the Pathways to Change Conference in Arlington, VA. The paper was entitled "Investigating the Effectiveness of Collaborative Staff Development Partnerships."

**Xiaoya Zha** had a paper accepted for publication in *Discrete & Computational Geometry* entitled "Isoperimetric Constants of Infinite Plane Graphs."

**Ginger Rowell** was an invited speaker at Riverdale High School's Mu Alpha Theta (Math Honor Society) Senior Banquet in April. Her talk was entitled "Math: How Can You Use it at NASA."

### Military Science

The **MTSU Blue Raider Battalion** held its Spring 2002 Commissioning Ceremony on May 10 in Wright Music Hall. Ten cadets were commissioned as Second Lieutenants which is a record number over the past several years.

Colonel Samuel Whitson, Chief of Staff United States Army Second Region (ROTC), Fort Knox, KY, was the guest speaker. He received his commission through the Army ROTC program at MTSU in 1976. He is a graduate of the United States Army Command and General Staff College and United States Army War College. COL Whitson was born and raised in middle Tennessee and is married to the former Pam Bradley of Donelson, TN. COL Whitson expressed appreciation to the cadets for their commitment to serve their country. The ceremony was impressive and was surpassed only by the quality of the cadets who were commissioned.

The Spring 2002 Commissionees are 2LT Ken Ballard graduated with a B.S. degree in International Relations, 2LT Erek Bruce graduated with a B.S. degree in Psychology, 2LT Patrick Caukin graduated with a B.S. degree in Criminal Justice, 2LT Golden Hand graduated with a B.S. degree in Aerospace, 2LT Will Massey graduated with a B.A. degree in University Studies, 2LT Stephanie McMahan graduated with a B.S. degree in Criminal Justice, 2LT Larry Parlow graduated with a B.S. degree in International Relations, 2LT Robin Scott graduated with a B.S. degree in Biology, 2LT David Spencer graduated with a B.S. degree in Recreation, and 2LT Perry White graduated with a B.S. degree in Liberal Studies.

### Nursing

**Stephen Krau** spoke at two Premier Medical Group sites in Clarksville, TN, this past April on the topic, "The ABC's of HIV/AIDS and Hepatitis A, B, and C." **Karen Ward** was selected as the "OWL's Best Professor Award" for academic year 2001-2002. This award is given by the Student Services Department and is nominated by students who are in the "Older, Wiser Learner" category.

The Spring 2002 **Nursing Class** included 41 future nurses. Many of these participated in the Presentation of Pins for the Bachelor of Science Degree in Nursing Ceremony Friday, May 10 in Wright Music Hall. Ms. Celia Brown Morse spoke eloquently for her classmates. The class started a scholarship in honor of Ms. Katie Lovett, a classmate who is battling cancer. A reception was held after the Pinning Ceremony in Cason Kennedy Nursing Building.

### CBAS

**Dovie L. Kimmins and Mary Martin** presented a workshop at the Mid-South Technology Conference in Murfreesboro, TN. The workshop provided an overview of software which allows for the presentation of mathematical equations and graphics on the web.

**Mary Martin** presented a paper in April at the Pathways to Change International Conference in Arlington, VA. The paper was entitled "The Nuts and Bolts of an Effective Workshop".

**Ray Phillips, Mary Martin, and Peter Cunningham** received funding from the Council of Graduate Studies/Sloan Foundation program. The funding will be used to support a feasibility study for a Masters Degree in Professional Sciences.

**Mary Martin** received on of the MTSU Faculty mini-grants for developing a one hour satellite presentation for K-12 audiences. Aired on April 23, and with an audience of middle school students from Nashville Wesleyan School, the program was entitled "Who wants to be a Mathematician".

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And so it goes.....

