



The Basic Facts

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

From Under a Tree to a Village

The Science of Success

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President Minte Behaliu of Makelle University (MU) in Northern Ethiopia tells the story of how MU began with a handful of students meeting under a tree just a few years ago. Now the university's physical plant covers hundreds of acres overlooking the town of Makelle in the state of Tigrai. MU has 10,000 students and, if the Prime Minister of Ethiopia has his way, MU and other universities will grow at an exponential rate over

the next ten years. In early January, Tom Cheatham, Tech Wubneh and Saeed Foroudastan traveled to Ethiopia to pursue the



creation of a partnership for MTSU. In April, five administrators from MU and the dean of the faculty from Makelle

Institute of Technology came to visit MTSU (and other sites in Tennessee and the U.S.). The MU delegation included the President of MU, Dr. Minte Behaliu, his VP for International Relations and Public Affairs, and three deans, including the deans of sciences and agriculture. The MTSU community welcomed the delegation warmly, and we are hopeful that several strong departmental partnerships will result. Drs. McPhee and Behaliu signed a Memorandum of Understanding to continue to work together.

\$100,000 CIM Golf Tournament Makes History

Concrete industry executives from across the country gathered at Old Fort Golf Course May 4 for the First Annual Concrete Industry Management (CIM) Building Fund Golf Tournament. The evening was highlighted with an award and recognition dinner which included the 2005 graduating seniors.

Over \$100,000 was raised at the tournament, making it the most successful golf tournament MTSU has held. Sponsorships included four \$10,000 Gold Sponsors, one \$5,000 Silver Sponsor, seven \$2,500 bronze sponsors, four \$1,500 hole-in-one sponsors, and twenty-three \$1,000 hole sponsors. Additional funds were raised from the 90 golfers attending the event.

Special thanks goes to CBAS Development Officer Jim Van Wicklin for initiating the idea and making golf arrangements; CIM golf committee members Alan Brown (Metro Ready Mix), Ward Poston (Holcim), and Chris Davenport (Barnes Industrial Group); CIM Director Austin Cheney, faculty member Dr. Heather Brown, and staff members Debbie Londré and Sally Bradford for helping the event run smoothly and managing donations and players. Also assisting at the event were student workers Sarah Campbell and Lindsay Lane, along with CIM students Jake Birkofer, Zack Mestancik, and Adam Olszak.



CBAS Majors Score Above National Average

Majors in the College of Basic & Applied Sciences scored above the national mean for the Fall 2004 Academic Profile as well as the Spring 2005 Major Field Test (MFT).

Individual majors scoring above the national mean for the Academic Profile included Aerospace, Biology, Concrete Industry Management, Computer Science, Environmental Science & Technology, Industrial Education, Mathematical Sciences, and Plant & Soil Sciences.

At least 55% of the graduates in the following majors exceeded the national average for the MFT: Computer Science (65%), Mathematical Sciences (76%), and Physics & Astronomy (65%).

Congratulations to the students and members of the faculty for this achievement!



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

All departments are invited to submit items for this column

Agrribusiness/Agriscience

Harry Djunaidi and **Warren Anderson** presented "Trend and Development of Farmland in the United States: Who Gains and Who Loses?" at the Urban-Rural Interfaces International Conference in Atlanta, GA, March 15.

Harry Djunaidi presented "Econometric and Time Series Model Selections: A Choice Between Two Possible Approaches to Assess Linkages Between the U.S. and Export Chicken Markets" at the monthly CBAS Research Seminar March 15.

Coached by **Jessica Gentry**, the MTSU Livestock Judging Team competed at the All-East Contest held at UT-Martin April 21-23. Students competed in livestock evaluation and selection and judging contests, placing 3rd in sheep judging and 8th in beef cattle.

Biology

Karen Hargrove was on hand to help identify stream species as the Channel 8 "TN Wild Side" crew filmed a "Creek Stomp" near Hohenwald May 10 with the Lewis County Home School 4-H Club. This lively group was the 2004 Waterworks! Stream Savers group of the year.



Karen Hargrove was a featured sponsor and exhibitor at the 15th Tennessee Water Resources Symposium held April 13-15 at Montgomery Bell State Park by the TN Section of the American Water Resources Association (AWRA). **Karen** also represented MTSU at a multi-stakeholder symposium April 22 focusing on the role of individual behavior in protecting the environment.

Laura McCall, Kim Sadler, Padgett Kelly and **Karen Hargrove** in the Center for Environmental Education coordinated booths at the April 23 Earth Day event on the Legislative Plaza in Murfreesboro.

Between April 30-May 1, the MTSU Center for Environmental Education (CEE) hosted the first-ever facilitator training for the newly-established and funded National Geographic program, *Special Habitats of Tennessee*. **Cindi Smith-Walters, Kim Sadler, and Karen Hargrove** all made presentations at the training.

Engineering Technology and Industrial Studies

Heather Brown, along with CIM students Justin Farmer, Matthew Flynn, and Thomas Salisbury, competed in the International Spring American Concrete Institute Convention in New York, NY, April 17. The student team won 1st place overall in the Cylinder Competition with category placements of 3rd in Lowest Cost, 3rd in Target Density, and 1st in Target Strength.

Mathematical Sciences

Yuri Melnikov and **Maxim Melnikov** presented "Design of Test Settings for BEM Algorithms" at the World Conference on Boundary Element Methods in Orlando, FL, March 15-17.

Dennis Walsh presented "One Target Fits All" at the Mathematical Association of America Southeastern Section Annual Meeting at Meredith College in Raleigh, NC, March 11-12.

Andrew Worsey presented "Multivariate C1 Piecewise Quadratic Interpolation Schemes" at the 1004th AMS Meeting, Southeastern Section, in Bowling Green, KY, March 18-19.

Ginger Rowell and Scott McDaniel (Developmental Studies) have been awarded an NSF grant

(\$74,994) to develop instructional modules to improve student learning of probability and statistics. The two-year project is titled "Discovery Learning Via Pre-Learning in Statistics."

Ping Zhang presented "State Space Models of Immune Responses Under Treatment in Plasma and Lymph Nodes" at the ENAR 2005 Annual Meeting in Austin, TX, March 20-23. In addition, he met with other researchers to discuss new developments in biostatistics.



Anhua Lin presented "Using Ice Cream Cone Programs as Subproblem to Solve General MLP" at the 29th Annual SIAM-SEAS 2005 meeting in Charleston, SC, March 25-26.

Military Science

Fifteen Army ROTC Cadets graduated from MTSU and were appointed by the President of the U.S. as Second Lieutenants in the U.S. Army.

Nursing

Pam Roesler delivered the keynote address for the annual Nurses Week Colloquia/Dinner event May 13 for TNA, District #15. Her platform presentation was on "Clinical Aromatherapy."

Suzanne Prevost served as guest editor for *Nursing Clinics of North America*, published in April, 2005. She published the preface of the issue which focused on "Advances in Pharmacology."

Publishing in Volume 40 (1) for *Nursing Clinics of North America* were:

Maria Smith, "Antibiotic Resistance;" **Karen Ward**, "New Developments in Antidepressant Therapy;" **Ken Edmisson**, "Multidimensional Pharmacologic Strategies for Diabetes;" **Lynn Parsons**, "Osteoporosis: Incidence, Prevention, and Treatment of the Silent Killer;" **Jenny Sauls** and Tom Rone, "Emerging Trends in the Management of Heart Failure: Beta Blocker Therapy;" and **Linda Wilson**, "Update on Antiviral Agents for HIV and AIDS." **Suzanne Prevost** presented "Dealing With Difficult People" at the 1st Annual Meeting of the MTSU School of Nursing Alumni Association CE event in April.

Lynn Parsons presented the opening address at the annual Sigma Theta Tau induction ceremony April 16.

Suzanne Prevost presented "Service Learning" at the CBAS Teach & Learn Seminar April 20.

Ken Edmisson presented the keynote address at the UT-Martin School of Nursing Annual Research Symposium in April.

Physics and Astronomy

Eakin School in Shelbyville held its first "Star Night" May 3. **Paul Lee** and **Eric Klumpe** were part of a team that helped introduce the 450 attendees to astronomy using the department's portable telescopes and portable planetarium.

CBAS

TLASAMP student news: **Greg Jones** (CHEM) was accepted into Morehouse Medical School; **Shante' McDonald** (Science) was



accepted as a Walt Disney intern; and **Chelsea Bond** (BIOL) won first place in oral presentations at the TLASAMP Research Symposium.

Five McNair scholars will be doing summer research this summer and nine CBAS students have been funded by URSCA.