



# The Basic Facts

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

## CIM Auction at World of Concrete

### The Science of Success

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Concrete Industry Management (CIM) Program Director Austin Cheney and the CIM Patrons arranged an auction at the World of Concrete meeting in Las Vegas to raise funds for a new building for CIM. The auction was a huge success raising over \$200,000 for the building project. The auction, held at noon on Thursday, January 19, 2006, during the largest concrete conference and exhibit in the world, attracted nearly 100 individuals. Thirty-five items



were auctioned ranging from a load of cement to a brand new 2006 International 7700 T/A Mixer Truck which sold for \$130,000. The mixer truck, donated by McNeilus and International Truck and Engine Corporation, was covered with the CIM logo denoting the tenth anniversary of the CIM program. The auction was great publicity for the CIM program and continued the

initial successful event, a golf tournament at Stones River Golf Club last May, which raised \$100,000 to launch the new building fund. Prior to the auction, the concrete industry held a meeting to inform the industry about the expansion of the CIM program to Arizona State, Cal State Chico, and New Jersey Institute of Technology, a program accelerated by a NSF Partnership for Innovation grant received by MTSU colleagues (Walter Boles, Austin Cheney, Heather Brown, and Tom Cheatham).

## Second College Advisor On Board

With funding from Provost Gebert, CBAS recruited and hired a second college advisor, Ms. Jennifer Danylo. Jennifer has a master's degree in counseling and has several years of experience working with students in university housing as they dealt with problems associated with college life. She will be assisting Ms. Karen Case with all the

aspects of advising CBAS students including daily one-on-one advising sessions, substitutions, overloads, upper-division form checking, removing registration holds, CUSTOMS, and numerous other tasks. We are all pleased that Jennifer has joined the



CBAS staff and invite you to welcome her to the college. She can be reached by email at [jdanylo@mtsu.edu](mailto:jdanylo@mtsu.edu).



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

## New Science Building Update

Provost Gebert has made the pre-planning for the new science building a major part of the update of the university's facilities master plan. A nationally known science building consultant, Mr. Art Litdsky, has been engaged to assist the university in planning the new facility. Art met with a committee (called the PKAL Committee) of CBAS faculty, Chairs, and administrators last fall and has a second



meeting scheduled with a smaller committee January 31, 2006. Over the past year and half, the PKAL Committee has worked on a vision for science and mathematics at MTSU which includes pedagogy, curriculum, and facilities needed through 2016. The PKAL Committee developed a notebook containing this information. A "PDF" version of the

notebook is available at the MTSU PKAL website, [www.mtsu.edu/~pkal](http://www.mtsu.edu/~pkal). Dr. Steve Wright will serve as the MTSU science building Shepherd and direct the work of the new committee which consists of two individuals each from Biology, Chemistry, and Physics/Astronomy and one person from each of Computer Science, Geosciences, and Mathematical Sciences. Committee members are Dennis Mullen, Bruce Cahoon, Earl Pearson, Gale Clark, Robert Carlton, Ron Henderson, Chris-tila Pettey, Jim Henry, and Jim Hart. This committee will help shape future science facilities at MTSU.



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

All departments are invited to submit items for this column

### Biology

**Vince Cobb** recently published "Initial Den Location Behavior in a Litter of Neonate *Crotalus Horridus* (Timber Rattlesnakes)" in *Southeastern Naturalist*. J. J. Green, T. Worrall, J. Pruett, and B. Glorioso, MTSU graduate and undergraduate students, were coauthors. (This picture shows the external attachment of a radio transmitter.)



different institutions participated in the workshop.

**Don Hong** also co-organized the sectional meeting for the American Mathematical Society and the special session on "Mathematical Applications in Survival Analysis and Biostatistics" at ETSU October 15-16.

**Lisa Green** presented "Area Test for Observations Indexed

By Time" at the special session.

### Computer Science

**Ralph Butler**, along with colleagues Ross Overbeek and Tadhg Begley, published "The Subsystems Approach to Genome Annotation and its Use in the Project to Annotate 1,000 Genomes" in *Nucleic Acids Research*, 2005, Vol. 33, No. 17.

### Engineering Technology and Industrial Studies

**David Gore** presented "University and Industry Team Collaboration to Solve Welding Quality Problem Using Design of Experiments (DOE)" January 25th at the ASEE 2006 Conference for Education and Industry Collaboration (CIEC) in San Antonio, Texas.

### Math

**Don Hong** organized a workshop entitled "Quantitative Medical Data Analysis Using Math Tools and Statistical Techniques" at East Tennessee State University, in Johnson City, Tennessee, October 13-14. Several other MTSU faculty participated in the workshop including **Curtis Church**, one of six plenary speakers, **Zachariah Sinkala**, a 45-minute invited speaker, and **Lisa Green**, a session chairperson. Approximately 40 researchers in biostatistics and biostatistics from 15

### Military Science

Twenty-five Army ROTC students received \$1,000 and \$500 scholarships for earning a GPA of 4.0 and 3.0 respectively for the Fall 2005 semester.

Six Army ROTC scholarships have currently been awarded to high school students scheduled to attend MTSU next fall. High school scholarship interviews will continue through the spring semester. Full scholarships await qualified graduate students and students who will be juniors in the fall of 2006. This summer "28 Days of Pure Adrenaline" await qualified MTSU students with no ROTC training. Motivated students should contact the ROTC Department.

### Nursing

**Sandra Mixer** published "Use of the Culture Care Theory as a Framework for the Recruitment, Engagement, and Retention of Culturally Diverse Nursing Students in a Traditionally European American Baccalaureate Nursing Program" in *Culture Care Diversity and Universality: A Worldwide Nursing Theory*.

### Physics & Astronomy

Two senior Physics majors, Adam Shulman and Travis Denton, both 4.0 students, have been selected by MTSU as National Goldwater Scholarship recipients this year. The Barry M. Goldwater Scholarship and Excellence in Education Program was established by Congress in 1986 to honor Senator Barry M. Goldwater. The purpose of the Foundation is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue careers in these fields. Adam and Travis will both be attending graduate school for medical physics.

**Nayer Eradat** is the PI for a proposal titled "Development of Biocompatible Macromonomers as Candidates for Tissue Engineering Using Two-Photon Polymerization" which was approved for access for FY 2006 User Nanoscience Research Program at the Center for Nanophase Materials Sciences (CNMS) of the Oak Ridge National Laboratory. **Andrienne Friedli** is also part of the MTSU team. A group of scientists from CNMS and Vanderbilt University are also involved in this project.

**Nayer Eradat** presented a talk at the Department of Physics and Astronomy at Denison University in Granville, OH, on proposal development, establishing collaboration, and student exchange agreements.

### CBAS

**Saeed Foroudestan** published "Age-Forming of Beam Structures; Analysis of Springback Using a Unified Viscoplastic Model" (with J. Jackson and J. Peddieson) in the *Journal of Materials: Design and Applications*.

**Saeed Foroudestan** presented "Advancing Innovations in Engineering Technology Education" at the National Center for Advanced Technological Education Conference in November.

**Saeed Foroudestan** has also had four abstracts accepted, three of which were co-authored by his students. "Undergraduate Research and Creative Activity at Middle Tennessee State University" and "International Environmental Regulation for Industry" were submitted for the 2006 ASEE Conference. "Implementing a National Competition Design Project as a Capstone Course at Middle Tennessee State University" was for the 2006 ASEE-SE Conference. The fourth abstract, "Solar Power and Sustainability in Developing Countries," was for the 2006 International Conference on Renewable Energy for Developing Countries ICRED06.

**Saeed Foroudestan** received \$32,000 in internal and external funding for Formula SAE, Mini Baja, Moonbuggy, Solar Vehicle, and Solar Boat projects.

### First Friday Star Parties Spring 2006 6:30 p.m., WPS 102

- 2/3 The Best of Hubble
- 3/3 The MTSU Uranidrome: Naked-Eye Astronomy in the 'Boro'
- 4/7 What About the Dark Matter?
- 5/5 How Do Telescopes Work?

