



# 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

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### Newly Promoted/Tenured Faculty

-- Tenured --

- Chong Chen
- Paul Craig
- Stephen Gossett
- James Hart
- Stephen Krau
- Dennis Mullen
- Lynn Parsons
- Zachariah Sinkala
- Basavapatna Sridhara
- Jan Zijlstra

-- Promoted --

- Ralph Butler
- Mary Enderson
- Saeed Foroudastan
- Judith Iriarte-Gross
- Dwight Patterson

-- Promoted & Tenured--

- John DiVincenzo
- Gore Ervin
- Ronald Henderson
- Michael Rutledge
- Xiaoya Zha
- Gail Zlotky

## Basic and Applied Sciences Hold Numerous Conferences During Fall Semester

### Mathematics and Technology Conference Positively Received

On October 6, partnering with Addison-Wesley Publishing Company, the Department of Mathematical Sciences sponsored a regional conference discussing the changes in teaching mathematics through the use of technology. Running concurrent sessions, there were speakers from Minnesota, New York, Arizona, Louisiana, and Tennessee. Among the variety of topics presented were "Hollywood Goes to Math Class," "The Challenges Facing Today's Mathematics Instructors," and "Technology Tools for the Web." Sixty-five attendees came from four states to enjoy the talks, breakfast and lunch, and the MTSU/Idaho football game.

### Expanding Your Horizons Conference Exceeds Goals

The fifth annual "Expanding Your Horizons in Science and Mathematics" conference met on the MTSU campus in October. The MTSU conference is the only one of the national series held in Tennessee. Organized locally by Judith Iriarte-Gross (CHEM) and a committee of individuals from MTSU and local organizations, 235 girls came from all over Tennessee to attend a full day of science and mathematics "hands-on" workshops. Dr. Iriarte-Gross received a national award for her efforts in organizing the workshops.

All branches of science and mathematics were represented at the conference -- with a large number of the presenters being MTSU faculty and/or alumni. The girls learned about the principles of CPR, modeling three-dimensional mathematical surfaces, the dynamics of chemistry and chemical reactions, the fundamentals of diabetes and DNA, the science of recycling, memory principles, nutritional facts, the fundamentals of

volcanoes, and the science and fun of aerospace. The goal of the conference is to encourage the girls to be enthusiastic about science and mathematics.

### Farm Day

On October 26, the School of Agriculture and Agriscience hosted the 2nd annual Farm Festival on the MTSU campus. The Festival is an interactive experience for Middle Tennessee school children ranging from preschool to fifth grade. These school-age children, who are from around Rutherford County, are invited to participate in this "learning through doing" opportunity.

The Festival is a chance for children to learn the scope of how agriculture influences everyone's life. For instance, they are guided through interactive displays which educate through personal experience and fun. They learn that Wal-Mart is not the origin of their clothes -- the cotton producer is; that Kroger is not the origin of milk -- the dairy farmer is; that McDonald's did not produce the cheeseburger -- the beef cattle producer did.

For the enjoyment of the children the Festival included agriculture games, a hay ride, interactive farm equipment displays, face-painting, crop demonstrations, plus live farm animals such as dairy cattle, beef cattle, chickens, pigs, horses, sheep, goats and many more.

And finally to the delight of the children, they were treated to milk and cookies.

### TAS/KAS

The Tennessee Academy of the Sciences and the Kentucky Academy of the Sciences had the second combined meeting of the Academies on the

MTSU campus on November 8-10. Attended by more than 300 scientists and mathematicians, the conference ran concurrent sessions. More than 230 speakers and 80 poster talks were available to attendees. The keynote speaker was Dr. Jim Lightbourne, Senior Science Advisor, National Science Foundation.

### Partnering Critical

Each of these conferences are important examples of what can be achieved through partnerships. For these conferences, the sponsors include Addison-Wesley Publishing Company, American Chemical Society (Nashville Section), American General, Army National Guard, BI-LO Inc., Central Tennessee Solid Waste Region, Creative Discovery Museum (Chattanooga, TN), Cumberland Science Museum, Girl Scouts Council of Cumberland Valley, Kroger Inc., Marshall Space Flight Center (Huntsville, AL), Southwest Airlines, SunTrust, and The Tennessee Aquarium. We appreciate the support of all the people who offered partnering arrangements. For all those who provided partnering and were not listed, we appreciate your contribution and continued support.

### AERO Conferences

The Aerospace department hosted two conferences during the past month. They were host to the National Education Conference of the UAA, which was held in Nashville at the Music City Sheraton on October 24-27, and last week MTSU Aerospace hosted the annual Region 8 flight competition.

There are 10 regions nationally. The competitors in this region are University of Southern Illinois, Southern Illinois University, Lewis University, Purdue University, MTSU, Parks College and Eastern Ky. The three teams that moved on to nationals are SIU, U of I and Lewis. They will meet at the nationals hosted by SIU in the spring.



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



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

All departments are invited to submit items for this column

### Aerospace

**Ronald Ferrara** published an article in the Journal of the American Aviation Historical Society entitled "Guinea Pigs with Wings -- Tennessee's Women's Research Instructor School."

### Biology

**Kim Sadler** gave a presentation to Recycle Rutherford in October on "Green Shopping," a program that profiles products that are based on characteristics that determine them to be 'green' products which are recyclable or biodegradable and can be purchased locally.

### Chemistry

**Paul Lee** recently presented two projects for science learning at the weekly Chemistry seminar. The abstracts were entitled "Constructing Physics Understanding" and "Project NOVA."

**Judith Iriarte-Gross** was awarded a "Salutes to Excellence" for her work with Expanding Your Horizons (EYH) and the ACS Women Chemists Committee in October at the meeting of the Nashville Section of the American Chemical Society.

**Gale Clark** co-authored an article published recently in the Journal of Chemical Education, entitled "The Connection Between Success in a Freshman Chemistry Class and a Student's Jungian Personality Type."

### Computer Science

**Ralph Butler** recently attended a workshop in Albany, New York hosted by Rensselaer Polytechnic Institute entitled "New Directions in Bioinformatics and Biotechnology."

**Al Cripps** had an article published in the National Social Science Journal entitled "Application of the AAHE's Seven Principles for Good Practice in Undergraduate Education to Online Teaching."

**Jungsoon and Sung Yoo** co-presented a paper at the Sixth Annual Decision Science International Conference in Chihuahua, Mexico entitled "Usability Test for On-line Retail Stores."

**Judy Hankins, Brenda Parker, Chrisila Pettey, Ginger Rowell (MATH) and Judith Iriarte-Gross (CHEM)** received an NSF planning grant for their WISUP (Women In Science Undergraduate Program) project. They also presented an abstract to the TAS at the Fall 2001 meeting regarding WISUP.

**Judy Hankins and Brenda Parker** submitted an abstract to National Educational Computing Conference (NECC), entitled "The Joys and Sorrows of Teaching Computer Literacy Online."

**Roland Untch** recently published an article in the IEEE Transactions on Software Engineering entitled "Prioritizing Test Cases for Regression Testing."

### Engineering Technology/Industrial Studies

**Walter Boles** participated in the Middle Tennessee Chapter of the Association of Energy Engineers' (AEE) 2nd Annual Scholarship Scramble to raise funds for scholarships for students who are majoring in energy related fields of study.

**Heather Sauter** successfully defended her doctoral theses to become **Dr. Heather Sauter** -- Congratulations, Dr. Sauter!

### Mathematical Sciences

**Dovie Kimmins** presented "One University's Experience in Improving Teacher Licensure Exam Pass Rate" at the 100th annual meeting of the School Science and Mathematics Association Conference in Chicago, IL in November.

### Nursing

**Suzanne Prevost** has submitted a manuscript for publication (December 2001) to the SCI Nursing, journal entitled "Security in the Midst of Uncertainty." She also had a letter to the editor published in the October issue of the American Journal of Nursing.

**Linda Covington** presented "Addressing the Digital Divide on Race and Gender in TBR Institutions" at the National Council of Higher Education Conference in Cincinnati, OH in October.

**Lynn Parsons** presented the keynote address to the Sigma Theta Tau International at their Annual Research Day. The address was entitled "Empowerment Through Delegation: Bridging Research, Education and Practice." She also presented at the conference "Critical Thinking, Models of Delegation Decision-Making: Impact on Nurse Recruitment and Retention, Nurse Practice and Nursing Law."

### Physics

**Eric Klumpe** will present a lecture on the upcoming Leonids Meteor shower on November 16 in WPS 102. A sky-viewing session will follow outside on the front lawn.

A Meteor Watching party is scheduled for

November 18 at 3:00 am at Barfield-Crescent Park on South 231.

### Faculty and Students Participating in TAS/KAS Joint Meeting

The following MTSU faculty and/or students participated in the recent conference of the TAS/KAS joint meeting held here on the MTSU campus. The participants either gave presentations and/or presented posters. The posters were available for viewing for the two-day session.

- ◇ Frank Bailey (BIOL)
- ◇ Ngee-Sing Chong (CHEM)
- ◇ John Dubois (BIOL)
- ◇ Anthony Farone (BIOL)
- ◇ Matt Elrod-Erickson (BIOL)
- ◇ Andrienne Friedli (CHEM)
- ◇ Judith Hankins (CSCI)
- ◇ James Hart (MATH)
- ◇ Stephen Howard (BIOL)
- ◇ William Ilsley (CHEM)
- ◇ Judith Iriarte-Gross (CHEM)
- ◇ Amy Jetton (BIOL)
- ◇ Dovie Kimmins (MATH)
- ◇ Matthew Klukowski (BIOL)
- ◇ Eric Klumpe (PHYS)
- ◇ Jeffrey Leblond (BIOL)
- ◇ Preston MacDougall (CHEM)
- ◇ Mary Martin (MATH)
- ◇ Philip Mathis (BIOL)
- ◇ Charles McGhee (BIOL)
- ◇ Max Melnikov (MATH)
- ◇ Melvin Miles (CHEM)
- ◇ Brian Miller (BIOL)
- ◇ Anthony Newsome (BIOL)
- ◇ Beng-Guat Ooi (CHEM)
- ◇ Brenda Parker (CSCI)
- ◇ Patricia Patterson (CHEM)
- ◇ Earl Pearson (CHEM)
- ◇ Chrisila Pettey (CSCI)
- ◇ William Robertson (PHYS)
- ◇ Ginger Rowell (MATH)
- ◇ Rebecca Sielpelt (BIOL)
- ◇ Martin Stewart (CHEM)
- ◇ Jeffrey Walck (BIOL)
- ◇ Dennis Walsh (MATH)

- ◇ Steve Wright (BIOL)
- ◇ Gary Wulfsburg (CHEM)
- ◇ John Zamora (BIOL)
- ◇ Xiaoya Zha (MATH)
- Students --
- ◇ Pamela Monger
- ◇ Huiyon Kim
- ◇ Cameron Gren
- ◇ Elizabeth Western
- ◇ Samuel Deputy
- ◇ Valencia Smartt
- ◇ Freneka Minter
- ◇ Tim Decha-Umphai
- ◇ Dara Grissom
- ◇ Travis Laurence
- ◇ Tamara Berthel
- ◇ Brad Bennett
- ◇ J.N. Munday
- ◇ David Gifueredo
- ◇ Eric Freundt
- ◇ Jamie Wilcox
- ◇ Rachell Briggs
- ◇ Celeste Matthews
- ◇ Dwayne Estes
- ◇ Jennifer Thompson
- ◇ Siti Hidayati
- ◇ Spense Dowlen
- ◇ Melanie Messina
- ◇ Shawn Robichaud

### Revised Basic and Applied Sciences College Senior Honor- Student Criteria Spring 2002

- Must have completed 48 hours coursework at MTSU
- Must have minimum of 90.0 cumulative earned hours
- Must have a overall GPA of at least 3.75 and a GPA of at least 3.75 for coursework taken at MTSU