



The Basic Facts

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

Upcoming Seminars Highlight The College Strengths and Its Focus

The Science of Success

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For the past three months, the College of Basic and Applied Science has been offering two seminar series. These seminars have focused on areas of interest in the college: the development of future directions for the college and features of faculty development. The College is now ready to add a third series highlighting current research from the faculty of the college departments. Featuring **FREE FOOD**, Conversation, Collegiality, and Information, the sessions held during the fall were very productive. The spring sessions look equally promising.

Faculty Development Seminar

Organized by Dr. Mary Martin, Interim Associate Dean of the College of Basic and Applied Sciences, the fall sessions have featured information regarding tenure and promotion, external funding, MTSU internal funding, and developing a syllabus. Sessions for the spring are equally varied. All seminars are at 12:25 in MGB 301. Please remember to email jcarter@mtsu.edu for a reservation, no later than the morning before the seminar.

Date	Topic
January 23, 2002	Using Technology in the Classroom
February 20, 2002	Alternate Forms of Teaching Assessment
March 20, 2002	University Academic Policies
April 17, 2002	Establishing Collaboration and Consulting

Innovation Seminar

Organized by Dr. Tom Cheatham, Interim Dean of the College of Basic and Applied Sciences, the fall sessions have featured faculty mentoring, collaboration symposium follow-up, and increasing undergraduate research. Sessions for the spring include:

Date	Topic
January 30, 2002	Incentives for Seeking External Funding
February 27, 2002	Distance and On-line Classes
April 3, 2002	Interdisciplinary Courses

Research Seminar

Organized by Dr. Suzanne Prevost, National HealthCare in Nursing Chair, this seminar is new for the spring. Designed to highlight both research in departments and individual faculty research, the sessions will cover 2-3 quick presentations. **VOLUNTEERS TO FILL OPEN SPEAKING SLOTS ARE WELCOME**; please call Dr. Prevost at 5957. Although not completely finalized for the spring, research presenters include:

Date	Presenters
February 13, 2002	Dr. Suzanne Prevost, Dr. Steve Howard, Dr. Chuck Higgins
March 13, 2002	Dr. Norma Dunlap, Dr. Jeff Leblond, Dr. Ngee Sing Chong
April 10, 2002	Dr. Shesa Chair, Dr. Anthony Newsome, Dr. Needa Speaker

These seminars are open to all interested parties. Please contact the College office if you have questions (x2613). In the meantime, register for some free food and exchange of ideas – or even come to present or to suggest topics for next year! The time is well-spent and the company is fine. All the seminars will be held in MGB 301 at 12:25 pm. To sign up for the Innovation Seminar go to <http://collbas.mtsu.edu/InnovationSeminars/> and for the Research Seminar go to <http://collbas.mtsu.edu/ResearchSeminars/>.



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

All departments are invited to submit items for this column

Aerospace

A Boeing 727 is due to arrive shortly at the airport in Murfreesboro. Federal Express, a Memphis based shipping company, has donated the plane to MTSU. It will be the largest ever to land at the airport and will be used by the students to practice raising and lowering landing gear, do cockpit simulations and perform de-icing experimentation.

Agribusiness/Agriscience

The department hosted eight schools from Zone 5 Region 3 of the Intercollegiate Horse Shows Association on the weekend of December 15 and 16 at the Tennessee Livestock Center. Competitors came from Southern Illinois University, Southwest Missouri State University, Mississippi State University, and MTSU. MTSU was named High Point Team on both days and currently stands second behind Murray State University for the annual High Point College standings.

Biology

Kim Sadler and Cindi Smith Walters conducted an interactive workshop at the National Science Teachers Association Conference in Memphis in December. The title of the presentation was "Plant It with Plan-It3: Explore the Forest." They have been invited to present this workshop at the Tennessee Science Teachers Association Meeting in Nashville in the fall.

Cindi Smith-Walters, Karen Hargrove, and Kim Sadler have provided oversight, direction, and implementation of the GET WET program. Over the past year and a half, the program has funded 34 projects, involved over 7,000 students and teachers from across the state, and benefited another 16,000+ students from the school projects. The GET WET program is funded by the TN Department of Agriculture's Non-Point Source Program and implemented through MTSU's Center for Environmental Education with Partnership from the TN Solid Waste Education Project.

Chemistry

Preston MacDougall traveled to China and visited the main campus of Beijing University of Chemical Technology. While there he presented two lectures entitled "The Two Faces of Electron Density Analysis" and "The State of Art in Theoretical Chemistry." He also consulted with faculty and students on aspects of molecular design.

Computer Science

Major Field Tests for Fall 01 indicate that once again the department scored above the national average.

Richard Detmer has completed reviews of two papers for the Special Interest Group for Computer Science Education of the Association for Computing Machinery.

Engineering Technology/Industrial Studies

Saeed Foroudastan and Ahad Nasab co-authored "Faculty Internship in Industry" which was published in the October 2001 issue of the *Industry and Higher Education Journal*

Mathematical Sciences

Dovie Kimmins and E. Ray Phillips have had an abstract accepted for presentation at the Pathways to Change 2002 conference held in April in Arlington, VA. The abstract is entitled "Investigating the Effectiveness of Collaborative Staff Development Partnerships."

Joan Raines and E. Ray Phillips have been awarded an Eisenhower grant for teacher enhancement projects entitled "Preparing Elementary School Teachers to Successfully Implement the Mathematics Framework and Standards."

Dovie Kimmins has been awarded an Eisenhower grant to direct "FOCUS for Cumberland Plateau Mathematics Teachers" for 4-8 grade mathematics teachers and their principals in Grundy, Marion, and Sequatchie counties.

Nursing

Karen Ward received the Distance Education Award in Distance Learning in December. The award was presented by the Division of Continuing Studies.

Lynn Parsons has been selected to chair the National Orthopaedic Research Committee for 2002-2003 by the National Association of Orthopaedic Nurses Board of Directors.

Linda Covington has published an article in the December issue of *Critical Care Nursing Clinics of North America* entitled "Cultural Competence for Critical Care Nursing Practice."

Stephen Krau has published an article in the December issue of the *Critical Care Nursing Clinics of North America* entitled "Using Nurse-Sensitive Outcomes to Improve Clinical Practice."

Anita Crockett will be the faculty liaison for the nursing faculty to a newly forming School of Nursing Alumni organization.

Stephen Krau presented "Technocogenic Syndrome: The Iatrogenic Effects of Therapeutic Technology" at the 15th Annual Conference on Interdisciplinary Qualitative Studies at the University of Georgia, Athens, GA in January. He also published a book chapter entitled "It Felt Like Getting Kicked by a Mule: Living With an Implantable Defibrillator." Book Section: *Nursing and the Experience of the Body. In Listening to Patients: A Phenomenological Approach to Nursing Research and Practice*, S. Thomas & H. Pollio, Spring Pub. Co., New York.

Maria Smith presented on the topic "Investigation of Immunosuppressant Side Effect Profiles and Compliance in Post Renal Transplant Recipients," at the Fall Research Colloquia. The event was sponsored by the Research and Scholarly Activities Committee and Continuing Education Program within the School of Nursing and was held in November.

Lynn Parsons presented "Long-Term Care Settings: Clinically Rich Environments for Learning Nurse Delegation Skills" to Nurse Administrators/Managers at the National Health Care Long-Term Care Centers in November in Columbia, SC.

Stephen Krau and Kate Moore presented a series of lectures to the MTSU community in November on the topic, "Encountering Chemical, Biological and Radiation Challenges."

Judy Campbell is the recipient of the 2001 National Institute of Senior Centers Research Award. She will receive the award at the annual joint conference of the National Council on Aging and American Society on Aging to be held in Denver, CO, in April.

Physics

Dr. Carol Jo Crannell of NASA-Goddard Space Flight Center will present the Physics and Astronomy Colloquium on Friday, February 1, 2002 at 2:00 pm in WPS 220. Her talk is entitled "The High Energy Solar Spectroscopic Imager."

John Ash, Brad Bennett and Jeremy Mundy, physics majors, presented a poster at the Southeast Ultrafast Laser Conference held at Vanderbilt University in January. **William Robertson**, as their research mentor, attended with them. Their poster won, which was entitled "Acoustic Pulse Experiments as Analogs of Short Optical Pulse Experiments." Their competition included graduate students and the judges' comments were that "these students had more intimate contact with and knew more about their work than their competitors." Their prize was a Palm Pilot which makes us wonder, "Will they now have to write a computer program to determine how to time-share the prize?"

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 ☆ **The Military Science** ☆
 ☆ **department will host a** ☆
 ☆ **production of the "82nd** ☆
 ☆ **Paratrooper Chorus"** ☆
 ☆ **presented by the US Army** ☆
 ☆ **Paratrooper Chorus and** ☆
 ☆ **will feature progressive** ☆
 ☆ **patriotic and military** ☆
 ☆ **songs. The event will be** ☆
 ☆ **on January 22 from 11:00** ☆
 ☆ **am to 12:00 noon in the** ☆
 ☆ **Keathley University Center** ☆
 ☆ **Theater.** ☆
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Student Support Services Program Now Accepting Referrals

Student Support Services is the newest TRIO grant program to start at MTSU. Dr. E. Ray Phillips is the Director and Ginger Corley, former advisor Basic and Applied Sciences, is the new Coordinator. The goal of the program is to increase retention and graduation rates of eligible students.

All services are FREE. They include academic, career, financial, and personal counseling and advising, tutoring in requested subjects, and assistance in finding appropriate financial aid. Students also receive assistance in career planning for a successful entry into the job market. There is the possibility for students to receive \$450 for books, supplies, and other expenses. In order to qualify for the program, students must be a full-time undergraduate student at MTSU who have a verified academic need. In addition, students must be one of the following: first-generation college student (neither parent or guardian has earned a baccalaureate degree), eligible for a Pell grant, or have a disability.

Studies show that many students have profited from services by this program in preparing for graduate, professional schools, and successful careers. Staff and students may call 904-8462, email ssupport@mtsu.edu, or come by Todd 015 for more information. Staff is also available to speak to classes or other groups about the program. The SSS staff will be contacting individual departments to provide additional information about services.