



The Basic Facts

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

MTSU University-Wide Faculty Research Symposium

The Science of Success

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Special points of interest:

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- **Who is B.E.S.T.? See Page 2 and learn what your colleagues are doing within the College, the University, and the Community.**

The Second Annual University-Wide Faculty Research Symposium will be held April 25, 2001, in the BAS State Farm Auditorium.

The symposium originated in 2000, and was created to encourage sharing of scholarly accomplishments across disciplines; to promote interdepartmental collaboration; to acknowledge scholarly achievements; and to share

faculty research with students.

Researchers across campus collaborate with colleagues and students to present abstracts in their chosen fields.

Among faculty presenting from Basic and Applied Sciences will be Warren Anderson (ABAS), Judith Bonicamp (CHEM), Gore Ervin (BIOL), John Zamora (BIOL), Stephen Howard (BIOL), Judith

Iriarte-Gross (CHEM), Cen Li (CSCI), Beng Quat Ooi (CHEM), Ngee Sing Chong (CHEM), Maria Smith (NURS), and Jeff Walck (BIOL).

Keynote speaker will be Dr. Jerry Odom, Provost, University of South Carolina.

For more information go to the faculty research web page at <http://www.mtsu.edu/~facresch/>.

Basic and Applied Sciences Host Science Olympiad Competition

The Middle Tennessee Science Olympiad competition was held at MTSU on Saturday, February 24, 2001.

The annual event for middle and high school students has been sponsored by the College of Basic and Applied Sciences for the past six years since it moved from the Cumberland Science Museum in 1995.

For this year's event, five regional middle schools and eight regional high schools participated. Those included Portland, St. Pius X, Girls Preparatory School, St. Joseph, and St. Bernard Middle Schools. The high schools competing were Franklin, Blackman, St. Cecilia Academy, Portland, Gallatin, Girls Preparatory School, Smyrna, and Riverdale.

Twenty-three MTSU faculty members

from the college serve as event supervisors. Drs. Tony Johnston and Pat Patterson served as competition Director and Assistant Director, respectively and Dr. Steve Howard serves as MTSU Science Olympiad Web Master.

The Science Olympiad tournaments are rigorous academic interscholastic competitions that consist of a series of individual and team events which students prepare for during the year.

According to Dr. Johnston, "This year's competition was an amazing success. The coaches were all highly complimentary of the event coordinators and our facilities, and every single team had at least one medal winner in the individual events. The teams from Chattanooga, who had participated in the Eastern

regional competition in past years, asked to come back next year, saying that our event is

'...significantly better organized and has a more relaxed atmosphere.'" He continues, "I encourage our faculty members who haven't participated in the past to seriously consider taking on an event next year. I'd like to offer every event possible to better prepare the teams that participate in our region."

To learn more about the Science Olympiad visit the web page <http://www.mtsu.edu/~rshoward/olympiad/olympiad.html>.



MTSU Equestrian Team Named Regional Western Champions

In a stunning upset over the March 10-11 weekend, MTSU came from behind in the last three western competitions to claim the Regional Western Championship for Zone V Region 3 of the Intercollegiate Horse Shows Association, hosted by Murray State. Participating universities were Murray State University, Western Kentucky University, Southern Illinois University, University of Tennessee at Martin, Southwest Missouri State University, Truman State University, Mississippi State University, and MTSU.

Trailing Murray State 136-114 after seven regular season shows, MTSU began the rally Friday night by winning High

Point Team over WKU, SIU, Murray, UT Martin, SMSU, Truman, and MS State.

On Saturday, MTSU continued its winning streak by claiming High Point Team and High Point Rider under both judges. The team totals added up to a tie for the seasonal championship between Murray State and MTSU. After calculating the tiebreaker, MTSU led by 11 points, which allows MTSU to advance as a Team to Zone Finals competition.

On Saturday night the MTSU riders qualified by accumulating 35 points in their respective divisions through the regular season shows.

In the five divisions, MTSU riders were Grand Champion in three and Reserve Champion in one. Several students placed in the divisions of Champion in Advanced, Champion in Walk-Jog, and Champion in Open Rail and Open Reining.

The University of Florida at Gainesville, FL, will host the Zone Championship show on April 6-7, 2001.

For more information visit the web page <http://www.ihsa.com/>.

Visit our newsletter web site to view all *The Basic Facts* issues:

<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

Mr. Bill Allen had an article published in the February issue of *Vintage Airplane* (published by the Experimental Aircraft Association) entitled "Hibernation," which describes the recovery, restoration, and history of MTSU's Piper Super Cub, N147MT.

Ms. Gail Zlotky will be keynote speaker at the Society of Automotive Engineers Ground Deicing Conference & Exhibition in Orlando, FL, July 2001.

Dr. Ron Ferrara attended a Board of Directors Meeting for the Council of Aviation Accreditation, February 2001, at Daytona Beach, FL. **Dr. Ferrara** has been a board member since 1998.

Agribusiness/Agriscience

Dr. Harley Foutch attended a Board Meeting of the American Association of State Colleges of Agriculture and Renewable Resources (AASCARR) in Washington, DC. **Dr. Foutch** serves as President Elect for AASCARR and is responsible for developing a program on the theme "The Challenge of Resource Development and Management Facing AASCARR Institutions" for the 2001 annual meeting hosted by California State University, Fresno, CA.

Computer Science

Dr. Richard Detmer has published a book entitled *Introduction to 80x86 Assembly Language and Computer Architecture*. The book's publisher is Jones and Bartlett, and it comes with a software CD. It is intended for an assembly language/architecture course such as CSCI 316.

Dr. Thomas Cheatham and **Ms. Rhonda Earl** presented a paper at the Southeast Association for Computing Machinery (SE ACM) Conference in Athens, GA, in March.

Chemistry

Dr. Judith Iriarte-Gross and **Mrs. Ann Smith** recently visited a second grade class at Eakin Elementary School in Shelbyville and electrocuted a dill pickle, shot off bottle rockets, and made slime.

Engineering Technology/Industrial Studies

Dr. Saleh Sbenaty submitted two papers for publication in the Proceedings of the American Society for Engineering Education's (ASEE) Annual Conference and Exposition in Albuquerque, New Mexico, June 2001. The papers are titled "Transfer of Knowledge and Skills Assessments in Engineering and Technological Education" and "Improving Student Learning and Retention in Technology Programs Using Industry-Based Case Studies."

Mathematical Sciences

Drs. James Hart, Mary Martin, Donald Nelson, Ginger Rowell, and Dennis Walsh attended the Joint Mathematics Meetings held in New Orleans, LA, in January. **Dr. Walsh** presented a paper entitled "Strolls Through the French Quarter With My Pal Pascal." **Dr. Rowell** presented a paper entitled "Statistics Activities for Psychology Students." **Dr. Rowell** also served as the Secretary of the Statistics Education SIGMAA (Special Interest Group of the MAA).

Dr. Ginger Rowell was an invited speaker at NASA's Marshall Space Flight Center in Huntsville, AL, in January. Her presentation, "Safety First," provided a history of the "Safety First" concept beginning with the original efforts of Dr. Joseph A. Holmes, first director of the U.S. Bureau of Mines.

Dr. Dennis Walsh has been chosen to have one of his four solutions to Problem 678 published. Problem 678 appeared in the May 2000 issue of *The College Mathematics Journal*. **Dr. Walsh's** solution will appear in the May

2001 issue of the journal.

Dr. Rebecca Zijlstra attended the seminar, "Strengthening Your Geometry Program: Ideas, Strategies and Hands-on-Activities for Grades 7-12" held in Nashville, TN, in January.

Dr. Curtis Church has co-authored several recent publications, "Interferon- α 2a and 13-*cis*-retinoic acid with radiation treatment for high-grade glioma, *Neuro-Oncology*" and "Phase II Trial of Subcutaneous Interleukin-2, Subcutaneous Interferon- α , Intravenous Combination Chemotherapy, and Oral Tamoxifen in the Treatment of Metastatic Melanoma: Final Results of Cancer Biotherapy Research Group 94-11, *Cancer Biotherapy and Radiopharmaceuticals*." **Dr. Church** has also been awarded the Distinguished Educator in Distance Education Award (2000), by the MTSU Office of Continuing Studies.

Nursing

Dr. Stephen Krau is a recipient of an "Innovations Award" for his work with Distance Education. The award was presented by the Distance Education Committee from the Tennessee Board of Regents.

Drs. Jenny Sauls and **Karen Ward** and **Ms. Patricia Burlin** and **Ms. Jean Hastings** contributed to a book entitled *Ask a Nurse: From Home Remedies to Hospital Care*. The book is published by the American Association of Colleges of Nursing (AACN) and the Peoples Medical Society. Their contributions are as follows: **Dr. Sauls**, Chapter 5, "Men's Health;" **Ms. Hastings**, Chapter 8, "Sexual Health;" **Ms. Burlin** and **Dr. Ward**, Chapter 4, "Addictions and Eating Disorders."

Dr. Lynn Parsons was the keynote speaker for the Tennessee Organization for Associate Degree Nursing's 2nd Annual TN-OADN Education Conference held at Motlow State Community College in Lynchburg, in February 2001. Her topic was "Integrating Leadership into the Curriculum."

Dr. Suzanne Prevost presented on the topic "Let's Get to the Heart of Nursing—Improving Pain Management" for nursing staff and managers at Middle Tennessee Medical Center in Murfreesboro, in February 2001.

Dr. Lynn Parsons presented on the topic "The Art of Delegation," as a Distinguished Lecturer for Sigma Theta Tau International for graduating senior nursing students at Roane State Community College in Harri-man, TN.

Ms. Judy Campbell presented on the topic "Caring for the Caregiver," for the Parish Nursing Program given at the First United Methodist Church in Murfreesboro, on March 14, 2001.

Dr. Suzanne Prevost presented, "Sharing Your Successes Through Presentations and Publications," at the national conference of the American Society of Pain Management Nurses in Houston, TX, on March 4, 2001.

Dr. Suzanne Prevost presented a workshop titled "Surviving and Thriving as a Clinical Practice Leader" at the San Francisco Regional Conference of Sigma Theta Tau, the International Nursing Society.

Ms. Maria Smith was a co-presenter at the Faculty Scholars Forum on the investigation entitled "Crosscultural, Transdisciplinary, Distance Learning: MTSU South Africa Project," on March 14, 2001.

Ms. Renee Dugger's article "Humor" was published in the TNA District 15 newsletter, *The Heart-beat*, for the March 2001 issue.

Dr. Lynn Parsons was recently published in the journal *Spinal Cord Injury Nurse* on the topic, "Leadership in the New Millennium," Vol. 17 (4).