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a biweekly publication for the Middle Tennessee State University community

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*the* **RECORD**

**MTSU teams with NSCC for new dual admissions**

Any partnership between education institutions that benefits students and makes it easier to obtain a four-year degree would appear to be a winning ticket for the state of Tennessee, its workforce and economic health.

The newly formed Dual Admission Program between MTSU and Nashville State Community College is that ticket to attaining a bachelor's degree for thousands of Tennesseans.

Imagine earning an Associate of Arts, Associate of Science or Associate of Science in Teaching degree from NSCC, then being guaranteed acceptance to MTSU to complete the work and walk across the platform on graduation day to receive your diploma.

"MTSU takes pride in developing and supporting programs and services that demonstrate our commitment to helping students achieve their academic and personal goals," said MTSU President Sidney A. McPhee.

"This partnership is a huge step in helping students simplify the process of transitioning to a four-year institution and is consistent with our Academic Master Plan and its focus on pursuing partnerships with other institutions to increase access to educational opportunities and degree attainment among the citizens of this region."

"The program is another attempt to bring higher education to more of our citizens," Dr. Van Allen, NSCC president, added. "It will give students the most economical path from a high-school diploma to a college degree. The program will be well-received by our students."

Freshman orientation for NSCC began July 1. A formal signing of the agreement will take place Wednesday, July 29, at NSCC.

See 'NSCC' page 5

**Lifesavers**



**MAKING A DIFFERENCE**—American Red Cross phlebotomist Keyana Starks, above left, helps Crickett Pimentel, director of MTSU's Student Support Services, finish donating whole blood July 7 during a blood drive sponsored by MTSU's Campus Recreation, Campus Pharmacy and Health Promotions in the Student Health, Wellness and Recreation Center. In the inset photo, Ginger Pickett, a double-red-cell technician for the Red Cross, left, congratulates first-time donor Ed Carlton of Building Services as fellow donor Maria Edlin, assistant director of MTSU's Center for Economic Education, proudly stands by. About 43 MTSU faculty, staff and students (including 18 first-time donors) successfully donated blood to help ease the summer shortage faced by the Heart of Tennessee Chapter of the American Red Cross. Since donors are eligible to provide blood every 56 days, mark your calendars now to stay healthy for the fall 2009 blood drives scheduled on campus. The first is set for Monday, Sept. 21, from 10 a.m. to 3 p.m. in Room 322 of the Keathley University Center. Other blood drives, also in KUC 322, are Tuesday, Oct. 6, from 10 a.m. to 4 p.m.; Monday, Oct. 26, 10 a.m.-4 p.m.; and Tuesday, Nov. 10, 10 a.m.-3 p.m. For more information about donating blood, visit [www.givelife.org](http://www.givelife.org).

photos by News and Public Affairs

**Professor's gas-saving idea lands \$50K award**

Dr. Charles Perry's newest patent, which is pending, potentially could save America 120 million gallons of fuel daily.

The invention has several names—wheel hub motor, Plug-in Hybrid Retrofit Kit or "Machine for Augmentation, Storage and Conservation of Vehicle Motive Energy" (the one submitted to the U.S. Patent and Trademark Office)—and it's gained statewide attention.

The Plug-in Hybrid received the Tennessee Technology Development Corporation's first-place award of \$50,000 in the semi-annual series of grants designed to help Tennessee

inventors take their innovations from the lab to the marketplace.

"We're pretty excited," said Perry, an electrical engineer and holder of the Russell Chair of Manufacturing Excellence at



Perry

MTSU. The award was tops among 15 proposals from institutions around the state, including Oak Ridge Laboratories, K-12 (an Oak Ridge spin-off), St. Jude Research Center, Vanderbilt University, the University of Tennessee Research Foundation and Tennessee Board of Regents universities.

Palmer Labs LLC of Reston, Va., has made an oral agreement to match the \$50K grant, Perry said.

"We are excited to support the work being done by Dr. Perry and his team at MTSU," said Dr. Miles Palmer, president of Palmer Labs. "This technology will be a key element in Palmer Labs' plan to help transform our nation's transportation infrastructure."

See 'Gas-saving' page 5

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**IN BRIEF**

**LOST OR FOUND SOMETHING?**

Please turn in all "found" items on campus into the centralized University Lost & Found, located at the second-floor

Keathley University Center Information Desk, in a timely manner. Items may be dropped off at the desk anytime the KUC is open. Call 615-898-2782 for information or fill out claim forms online at [http://mtsu.edu/mtunions/lost\\_unions.shtml](http://mtsu.edu/mtunions/lost_unions.shtml).



[www.mtsunews.com](http://www.mtsunews.com)



# \$10K donation 'shows value' of WMOT: manager

WMOT-Jazz 89 recently received a \$10,000 gift in support of its fundraising efforts from Mr. and Mrs. Michael McDonald and The McDonald Boersma Hanley Giving Fund Advised Fund of The Community Foundation of Middle Tennessee.

"We're grateful to Mr. and Mrs. McDonald and The McDonald Boersma Hanley Giving Fund for their generous gift," said WMOT Development Manager Keith Palmer.

"This type of support shows the value the community puts on what we do every day. 2008-09 will clearly be a record-breaking fundraising year for WMOT, as the community has responded with more support than ever in one of the worst economic periods many can remember. This gift will help WMOT continue its mission of serving the university, as well as community, with jazz programming and award-winning local news."



WMOT-Jazz 89 is celebrating 40 years on the air this year. The 89.5 FM frequency began broadcasting from MTSU in April 1969, and in 1980, WMOT became the first radio station in Tennessee to use satellite broadcasting.

WMOT began broadcasting online in 2003, expanded its signal strength with a new antenna in 2005 and began simulcasting on HD Radio in 2008 to offer better fidelity via digital technology.

The public broadcasting station is a public service of MTSU and its College of Mass Communication. For information on how your dollars can help, or to donate, visit [www.wmot.org](http://www.wmot.org) anytime or call 615-898-2800. You also can listen to WMOT on your iPhone and iPod Touch! Check [www.wmot.org](http://www.wmot.org) for details.

## Stay connected to ITD news with 'Communicator'

The 2009 summer edition of *The Communicator*, a publication for MTSU faculty and staff from the Information Technology Division, is now available online for your convenience.

Summertime is the season for warm air, lemonade, sandy beaches and pool parties. The summer months are also ripe for severe weather. In this issue, find out how RAVE Alerts can keep you aware in the event of a tornado or other emergencies to ensure your summer is a safe one.

In addition, see highlights of this year's Instructional Technology Conference and read about a professor who uses the Web to pursue two of her life passions.

*The Communicator*, which is published five times a year, can be viewed online at [www.mtsu.edu/communicator/Summer2009.pdf](http://www.mtsu.edu/communicator/Summer2009.pdf).

For more information, contact Dan Copp at 615-898-5065 or Robin Jones at 615-898-2214.

## Fanning the FIRE



**TURNING UP THE HEAT**—Organizers, supporters and attendees of the recent CSI: MTSU Camp accept a \$2,475 donation from the Middle Tennessee chapter of the National Association of Certified Fraud Examiners to fund 11 campers' scholarships for the Forensics Institute for Research and Education's annual event. From left are campers Jaime Cooper, Ravenwood High School junior, and Christian Maddox, Siegel High junior; Dr. Mark Byrnes, associate dean of the College of Liberal Arts; FIRE Director Dr. Hugh Berryman; Dr. Saleh Sbenaty, engineering and technology professor; Bob Cleland, director in the Chicago office of the consulting firm Resolution Economics; Britt Wood, director of internal audits for the Tennessee Treasury Department; and campers Haley Bevels, Riverdale High sophomore, and Ricky Simmons, Coffee County High senior.

photo by J. Intintoli

# Landmark sports year concludes with high NACDA finish

MT Athletic Communications  
[www.goblueraiders.com](http://www.goblueraiders.com)

Middle Tennessee capped off one of its best academic and athletic years in school history with a record finish in the 2008-09 Learfield Sports Directors' Cup from the National Association of Collegiate Directors of Athletics. The Blue Raiders placed 76th out of 348 Division I schools with 259 total points.

The top 100 schools are dominated by the Big Six conferences, and the Blue Raiders finished 15th nationally among the non-Big Six members.

Middle Tennessee finished ahead of such schools as Kansas, Fresno State, Kansas State, Central Florida, Rutgers, Pittsburgh, Mississippi State, Memphis, South Florida, Houston and Cincinnati.

"To finish this high in the NACDA Cup is outstanding, and it truly speaks volumes about our student-athletes, coaches, administration and support staff," Director of Athletics Chris Massaro said. "Our goal is to have a national presence, and this is a significant step in that direction. Once we get to this level, then we need to maintain and improve on our success."

"Everyone in our athletic department, the university and community should take great pride in this, because this was a total team effort and something that is not easily accomplished."

Middle Tennessee scored a conference record 145.5 total points (out of a possible 186) to win its fifth Sun Belt Conference All-Sports Trophy in 2008-09. The Blue Raiders won or shared seven conference championships during the 2008-09 campaign.

The Blue Raiders made NCAA appearances in baseball, women's basketball, men's golf, women's indoor track, men's outdoor track, women's outdoor track, men's tennis and volleyball. Middle Tennessee captured Sun Belt Conference regular season titles in baseball and women's basketball and conference post-season championships in men's indoor track, women's basketball, men's tennis and men's golf.

## 2008-09 Athletic Highlights

- Seven team conference championships
- Four Coach of the Year honors
- Eight All-Americans, including one consensus All-American
- Two National Player of the Week honors
- Eight Sun Belt Conference Players of the Year
- Two student-athletes led nation in statistical categories (Alysha Clark, women's basketball points per game; Bryce Brentz, baseball home runs, batting average, slugging percentage and total bases)
  - 17 student-athletes won individual conference championships
  - 24 student-athletes named to post-season all-conference teams (does not include track/cross-country)
  - Two student-athletes invited to Team USA trials (Brentz was selected to the 2009 USA National Team)
  - One State of Tennessee Player of the Year

## All-Time NACDA Cup Finishes for Middle Tennessee

2008-09: No. 78 (234 points as of June 19)	2000-01: No. 162 (73.5 points)
2007-08: No. 128 (138 points)	1999-00: No. 105 (149 points)
2006-07: No. 101 (178 points)	1998-99: No. 214 (10 points)
2005-06: Did not score past 100	1997-98: No. 202 (10 points)
2004-05: No. T169 (75 points)	1996-97: No. 196 (32.5 points)
2003-04: No. T132 (123 points)	1995-96: No. 152 (68.5 points)
2002-03: No. T162 (83.5 points)	1994-95: No. 109 (52.5 points)
2001-02: No. 156 (89.5 points)	1993-94: No. 123 (91 points)



# Library exhibit is hot off the PRESS

by Gina K. Logue  
gklogue@mtsu.edu

The legacy of MTSU's working replica of an 18th-century printing press will be explained through photos and prints as part of an exhibit at the main branch of the Nashville Public Library, 615 Church St., through Sept. 27.

The exhibit is entitled "Telling the Story: Letterpress Printing and Community." The university's segment will include the story of letterpress printing at MTSU. The works of current MTSU art students, alumni, visiting artists, faculty, and elementary, middle- and high-school teachers and students who printed on the James E. Walker Library's unique device will be highlighted.

A reproduction of the English common press used by Benjamin Franklin in the early 1700s, the MTSU printing press was handcrafted in 2004 and 2005 by cabinetmaker Keith Jenkins and blacksmith Jeff Henderson. The chestnut and white oak wood came from a 100-year-old house in Virginia, and all the brass, iron and steel parts were forged by hand. Faculty and students donate their time working on the press, which is solely dependent on private support from individuals.

The press project offers students and the community a dramatic and unforgettable experience through activities that integrate history, writing and letterpress printing. Activities include lectures to university and school students about historical printing, a visiting artist each semester, community print nights and printing demonstrations for community groups.

The construction of the press was made possible with grant money awarded to Walker Library faculty members Dr. Alan Boehm, director of special collections, and William Black, administrative services librarian, and Professor Janet Higgins of the Department of Art.



Items printed by MTSU art students on the Vandercook Press, a precision-built, flat-bed cylinder proof device, and the Tulip Poplar Press also will be featured. Devotees of the Vandercook Press are celebrating the 100th anniversary of its creation this year. Austin Peay State University also will be part of the exhibit with works printed on its Goldsmith Press.

The exhibit will be located in the Nashville Public Library's second-floor Courtyard Gallery. For more information, contact Kristen Keene at 615-898-5376 or kkeene@mtsu.edu.



**STILL AT WORK**—MTSU's working replica of an 18th-century printing press stays busy year-round with demonstrations, classes and exhibits like the one on display now at the Nashville Public Library. In the photo at left, students Grant Eason, left, Kaitlyn Robertson and Chase Clements work on the "Franklin press" with Dr. Alan Boehm, director of special collections at MTSU's James E. Walker Library in April 2009. And above, Administrative Services Librarian Bill Black stands by as student Mike Anderson and Kristen Keene, Walker Library external relations specialist, make a print of the Constitution on the press in September 2008 during MTSU's observation of Constitution Day as part of the American Democracy Project.

file photos by J. Intintoli

## Retirement roast proceeds to benefit Jackson scholarship

from Staff Reports  
news@mtsu.edu

Friends of Roger G. Haley will gather to roast Murfreesboro's retiring city manager, who has devoted 20 years to public service and recently was named "city manager of the year" by the Tennessee City Management Association during the Tennessee Municipal League's annual conference held in Chattanooga.

Haley, 63, announced his retirement in March. He will officially retire Aug. 3 and will be succeeded by Rob Lyons, the current deputy city manager.

The celebration and roast will be held Friday, July 17, at the Embassy Suites Hotel and Conference Center with a meet-and-greet starting at 6 p.m., followed by dinner at 7. Reservations are required in advance at \$100 per person and \$1,000 per table of 10 guests. Tickets will not be available at the door.

"This is really a collective effort by many people who appreciate and want to honor Roger's years of service to our community," said Andy Womack, who conceived the idea for the event.

"The planning committee is composed of people from city government, the chamber of commerce and MTSU's Jennings A. Jones College of Business. When I asked Roger if he would agree to be roasted, he said OK, as long as it benefited the university by earmarking the proceeds from the event for the scholarship established in honor of his longtime friend and former Murfreesboro Mayor Joe B. Jackson," said Womack, who serves on the advisory board of the Jones College of Business. "We will respect his wishes and donate the proceeds from the roast to the Middle Tennessee State University Foundation to support the Joe B. Jackson Scholarship."

Alumnus Jackson (B.S. '49), who died in 2008, served in the U.S. Marines in World War II and was a graduate of the Nashville School of Law. He was elected to the Murfreesboro City Council in 1968, became vice mayor in 1978 and served as mayor

from 1982 to 1998.

"I'm pleased to serve as committee co-chair with Andy for this event," added Dr. E. James Burton, dean of the Jones College, "because it will help establish a permanent endowment, and recipients will be business majors who will be known as Joe B. Jackson Scholars."

Burton said the scholarship requires that recipients must be high-school graduates in Rutherford County, have a 3.0 grade-point average and demonstrate financial need. The scholarship will be good for one academic year and will be awarded to a junior or senior.

"We appreciate Roger's interest in supporting the Jones College, and we hope friends will help us pay tribute to his years of service," Burton noted.

For more information and to make reservations, contact Gina Harrison, event committee member, at 615-405-4735 or e-mail gharrison@sec-civil.com. Reservations must be made by Friday, July 10.

Those who would like to make a donation to the Jackson Scholarship in Haley's honor may send a check payable to the MTSU Foundation (for the Joe B. Jackson Scholarship Fund) to the MTSU Foundation, 1301 E. Main St., P.O. Box 109, Murfreesboro, Tenn. 37132.



Haley





# Campus Calendar

## July 13-26

### Please note:

Event dates, times and locations may change after press time. Please verify specifics when making plans.

### TV Schedule



#### "Middle Tennessee Record"

Cable Channel 9:  
Monday-Sunday, 7 a.m., 5 p.m.  
NewsChannel 5+:  
Sundays, 1:30 p.m.  
Visit [www.mtsunews.com](http://www.mtsunews.com) for other cable-outlet airtimes; visit [www.youtube.com/mtsunews](http://www.youtube.com/mtsunews) to browse archived shows.

### July 13

**July 13-15**  
**Blue Raider Volleyball All-Skills Camp**  
for fifth- to 12th-grade girls

**Blue Raider Volleyball Passing and Defense/ Libero Camp**  
for fifth- to 12th-grade girls  
For information on both, visit [www.goblueraiders.com](http://www.goblueraiders.com) or contact: 615-898-2230.

### July 14

**July 14-15**  
**CUSTOMS Orientation**  
Business, education and behavioral science, liberal arts and undeclared majors  
7:30 a.m., campuswide  
For information, visit [www.mtsu.edu/~customs](http://www.mtsu.edu/~customs) or contact: 615-898-5533.

### July 16

**July 16-17**  
**Tennessee Holstein Association Show**  
Tennessee Livestock Center  
For information, contact: 423-562-0168.

### July 17

**July 17-18**  
**CUSTOMS Orientation**  
Basic and applied sciences, mass comm, undeclared majors  
7:30 a.m., campuswide  
For information, visit [www.mtsu.edu/~customs](http://www.mtsu.edu/~customs) or contact: 615-898-5533.

**Friday, July 17**  
**Farmers' Market**  
sponsored by MTSU Plant & Soil Science Club  
1-5 p.m., Horticulture Center  
For information, contact: [nphillip@mtsu.edu](mailto:nphillip@mtsu.edu).

### July 19

**July 19-21**  
**Blue Raider Volleyball Team Camp**  
for girls' varsity, junior-varsity and junior-high teams  
For information, visit [www.goblueraiders.com](http://www.goblueraiders.com) or contact: 615-898-2230.

**Sunday, July 19**  
**"MTSU On the Record—The Philosophy of Music"**  
Philosophy department chair Dr. Ron Bombardi talks about his new fall class, in which students will pursue a variety of theories and perspectives affecting the nature of music.  
7 a.m., WMOT 89.5-FM  
Podcast at [www.mtsunews.com](http://www.mtsunews.com).



### July 21

**July 21-22**  
**Blue Raider Volleyball General Hitters/Setters Camp**  
for seventh- to 12th-grade girls

**Blue Raider Volleyball Elite Hitters/Setters Camp**  
for ninth- to 12th-grade girls with advanced experience  
For information on both, visit [www.goblueraiders.com](http://www.goblueraiders.com) or contact: 615-898-2230.

### July 23

**July 23-24**  
**CUSTOMS Orientation**  
Business, education and behavioral science, liberal arts and undeclared majors  
7:30 a.m., campuswide  
For information, visit [www.mtsu.edu/~customs](http://www.mtsu.edu/~customs) or contact: 615-898-5533.

**July 23-25**  
**Blue Raider Volleyball Team Camp**  
for girls' varsity, junior-varsity and junior-high teams  
For information, visit [www.goblueraiders.com](http://www.goblueraiders.com) or contact: 615-898-2230.

### July 26

**Sunday, July 26**  
**"MTSU On the Record—Maybe Now I'll Get the Respect I So Richly Deserve"**  
MTSU alumnus and award-winning illustrator Wayne White talks about a 400-page compilation of illustrations and paintings from his three-decade career.  
7 a.m., WMOT 89.5-FM  
Podcast available anytime at [www.mtsunews.com](http://www.mtsunews.com).



### Walking through history



**HANDS-ON LEARNING**—The July edition of "Middle Tennessee Record," MTSU's monthly video magazine, focuses on MTSU's role in history with a feature on Dr. Derek Frisby and his "Special Topics in Global History" class trip to the Central Pacific island World War II battlefields of Iwo Jima, Guam and Peleliu. Frisby, a former Marine and an assistant professor of history at MTSU, arranged the excursion to study the Pacific campaigns in the presence of surviving American and Japanese veterans. They toured the War in the Pacific National Historical Park, hiked through the jungles of Peleliu and met on Guam with American and Japanese historians and Iwo Jima veterans during a "Battle of Iwo Jima" seminar before visiting the infamous volcanic island. In the photo at top left, the group prepares for a photo with flags and banners representing the United States, MTSU's Army ROTC, the U.S. Marine Corps Reserve 3/24 "I" Company, the state of Tennessee and MTSU at the memorial atop Mount Suribachi. The site is the location of the iconic World War II photo of five Marines and a Navy corpsman raising the U.S. flag during the Battle of Iwo Jima. From left are Eric Barton, Courtney Fultz, Blake Winters, Lindsey Kilpatrick, Paul Hoffman, Elizabeth Goetsch, Ben Hayes, Chad Soeder and Bethany Hall; Frisby is kneeling with the Marine Reserve flag. In the photo at left, the group poses with an MTSU banner at the memorial. Kneeling are, from left, Winters, Hoffman and Frisby; standing are Barton, Kilpatrick, Hayes, Soeder, Goetsch, Hall and Fultz. The July "Middle Tennessee Record" also includes features on historic photos by a local photographer and an update on the MTSU Veterans' Memorial. Watch the show on Murfreesboro Cable Channel 9 daily at 7 a.m. and at 5 p.m., or tune in Sundays at 1:30 p.m. on NewsChannel 5+. Visit [www.mtsunews.com](http://www.mtsunews.com) for other cable-outlet airtimes, or browse [www.youtube.com/mtsunews](http://www.youtube.com/mtsunews) for archived shows.



photos submitted



To apply for dual admission, a student must plan on pursuing a bachelor's degree, meet the admission criteria for NSCC, have 29 or fewer college-level semester hours and, if a transfer or current student at NSCC, have a GPA of 2.0. A student also must complete all required high-school courses to qualify for transfer to MTSU.

Once enrolled in the dual-admission program, a student must maintain a 2.0 cumulative GPA and must have earned an A.A., A.S. or A.S.T. degree.

The dual-admission program is another step toward fulfilling one of MTSU's major goals: to become even more student-centered. After meeting certain requirements, NSCC students will be guaranteed acceptance to MTSU, and at the outset, they will be able to

map out their college career paths. Students will save money by being able to enroll in a community college their first two years at lower tuition and fees.

They will get to know MTSU academic advisers and staff even before they come to the university, because they will receive advising from both institutions concurrently. Students ending their tenure at NSCC also will be able to register at MTSU during a priority time period.

"I plan on transferring to MTSU after I receive my Associate of Arts degree, and this will make the process so much easier," said William Wheeler, an NSCC student.



## A little appreciation, please



**KEEPING TRACK**—MTSU "building runners" enjoy a June 30 luncheon in the James Union Building's Tennessee Room to thank them for their efforts. The runners are staff and faculty in each campus building who alert occupants of emergencies like tornado warnings and evacuations and are the first line of safety to help guide students and staff to shelters inside or outside their buildings. In the photo below left, MTSU Police Chief Buddy Peaster and Dr. Diane Miller, interim executive vice president and provost, discuss the positive response to the event. A list of all building runners on campus, along with the facilities for which each is responsible, is available at [www.mtsu.edu/alert4u/tornado\\_runners.shtml](http://www.mtsu.edu/alert4u/tornado_runners.shtml).

photos by Andy Heidt



## Gas-saving

## from page 1

The goal is to have Palmer Labs commercialize the invention.

"We've been trying to get money for two years," Perry said. "We've been working with Dr. Mike Allen's office (dean of MTSU's College of Graduate Studies) and the TBR counsel, Lou Svendsen. Lou was very instrumental in us getting this (matching) grant. He has been our advocate and adviser in how to prepare this grant."

MTSU will partner with Tennessee Technological University in Cookeville, another of the six four-year universities in the TBR system. TTU has agreed to serve as the subcontractor to build a prototype device. Dr. Ali Alouani, a professor of electrical and computer engineering at TTU, will lead an effort in developing the hardware and software of the control system that will automatically decide when to use the internal-combustion engine and the electric motor so energy consumption is optimized.

"This device is key to improving the gas mileage for hybrid vehicles," Alouani said. In an earlier memo to Perry, Alouani wrote, "I will be happy to work with you and deliver a product that we will all be proud of."

"We are very pleased to find the electrical-engineering expertise we need for this project at another of the Board of Regents schools," Svendsen said. "We hope that this is the start of many productive collaborations

### Affordable Hybrid Vehicle Solution

- **Gas Prices are high – But so is the cost of a new hybrid vehicle. What is needed?**
  - Economic retrofit kit with plug-in hybrid capability
  - Easily adaptable to existing fleet on the road
  - A transparent solution that is easy to install and easy to use
- **Solution: A novel bolt-on clam-shell electric motor design requiring no alterations to vehicle drive train**
  - Consists of electric drive kit for rear wheels + controls
  - Operates like expensive factory-installed hybrid systems
  - Target price of \$3K per kit is substantially lower than buying new
  - Doubles vehicle mileage in hybrid mode
- **Advantages: Mechanically/electrically simple, economical, transparent operation**

**DOWN TO DETAILS**—The PowerPoint slide above shows Dr. Charles Perry's summary of his newest patent, the Plug-in Hybrid Retrofit Kit, in his proposal for funding for the invention from the Tennessee Technology Development Corporation. The invention has the potential to save U.S. motorists 120 million gallons of fuel per day.

between the world-class researchers found at various TBR institutions."

The patent application will reduce carbon emissions, Perry said, and "environmental quality will be enhanced and energy savings will result."

With 80 percent of Americans driving an average of 28 miles per

day in their vehicles, Perry said the wheel hub motor, in hybrid mode, would double drivers' gas mileage and mainly would be an around-town function, not for highway driving. He said once it becomes mass-produced, the target consumer-installation cost would be \$3,000 to \$5,000.

"Our first goal is to build a

demonstration of a working prototype," Perry said. "Then, working with the state of Tennessee, we'd like to build one dozen to two dozen prototypes. We'd like to put them on state vehicles to get data. Then we'd look at a capital investment. Ultimately, Palmer Labs would like to build a facility that would create 2,000 jobs."

Working with Perry on the project is Paul Martin III, who is an automotive engineering technology expert. He is the grandson of Paul W. Martin Sr., for whom MTSU's University Honors College building is named, and the son of Murray and Paul W. Martin Jr. Martin Jr., along with his brother, Lee, provided \$2 million toward the honors building.

"He is a perfect match," Perry said of the younger Martin. "He has the right combination of skills. He is an applications guy. He came up with other ways to do things."

Perry said Martin's name has been added to the patent. He added that Tennessee Tech would receive part of the \$100,000, but at this point he is not sure how much.

Perry saw 40 patents issued for his innovations during his nearly 30 years working for IBM. The MTSU alumnus (B.S. '66 and M.S. '69) returned to his alma mater in 2004.



# Louisville native Baker selected as assistant soccer coach

MT Athletic Communications  
www.goblueraiders.com

Middle Tennessee Women's Head Soccer Coach Aston Rhoden has added Michael Baker to his staff for the upcoming 2009 campaign.

"He is a great addition," Rhoden said June 30. "We are really excited. He brings a wealth of experience and knowledge. He will help us enhance the success we have had as a program."

Baker recently completed his third year as an assistant coach at Northwestern State in Natchitoches,

La., helping to lead the Demons to a 9-9-2 mark last fall and 29-25-6 overall record during his tenure with Jimmy Mitchell's squad.

In 2006, the Demons' goalkeepers posted their best goals against average (0.93), allowing just 19 goals in 20 matches. Six of the 19 goals came during Southland Conference action. The team again allowed only six goals in league play



Baker

during the 2008 campaign.

"I'm excited about the opportunity Aston and the Middle Tennessee Athletic Department has given me," Baker said. "I'm looking forward to continuing the winning tradition Aston has built in his program and keeping the Blue Raiders as one of the dominating teams in the Sun Belt Conference."

Before arriving at NSU, Baker served two years as an assistant coach at Eckerd College in St. Petersburg, Fla., for both the Triton men's and women's programs. He served as interim head men's coach in spring 2006 and also worked as the academic

adviser for the athletic department and its game management coordinator for all sports.

In addition to his collegiate coaching duties, Baker was a member of a four-person selection group in 2004 that chose the U.S. Jewish National Soccer Team, which represented the United States in Israel at the July 2005 World Maccabi Games. The squad captured the gold medal without a loss.

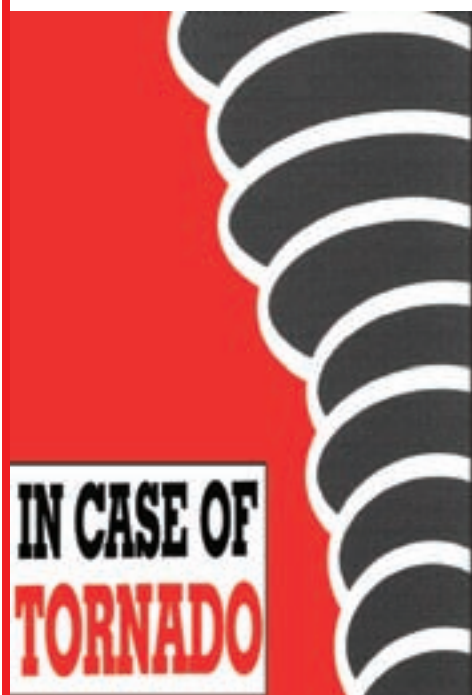
A native of Louisville, Ky., Baker began his collegiate career with his hometown Cardinals before transferring and graduating from Western Kentucky in 2004.

## Swinging into action



**MARK YOUR CALENDARS**—Members of the Friends of Music's "Evening of Swing" organizing committee gather to discuss upcoming plans for the fourth annual event. Working out the details are, seated from left, Shirley LaRoche, Jane Blakey, Liz Rhea, Connie Huddleston, and Bobbie Duke; standing are Robyn Kilpatrick, Linda Palmer, Brenda McFarlin, Claudette Northcutt, John Duke, Veronica Milnar and MTSU School of Music Director George Riordan. This year's "Evening of Swing" will be held Friday, Oct. 30, in the James Union Building's Tennessee Room, and proceeds will benefit students in the MTSU School of Music. For more details, contact Northcutt at 615-898-5924.

photo submitted



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## Get noticed in *The Record*!

Submit your Campus Calendar listings, Faculty/Staff Update items (including promotions and new hires) and other news tips to [gfann@mtsu.edu](mailto:gfann@mtsu.edu) by 3 p.m. **Wednesday, July 15**, for the July 27 *Record*, or by 3 p.m. **Wednesday, July 29**, for the Aug. 10 *Record*. Don't forget to include the specifics—who, what, where, when and why, plus contact information—with your contributions, so we can make sure your news gets noticed!

Check *The Record's* 2009 deadline schedule anytime at [http://frank.mtsu.edu/~proffice/rec\\_deadlines.htm](http://frank.mtsu.edu/~proffice/rec_deadlines.htm).



# TMSTEC-led Math-Science Partnerships aid teachers

by Randy Weiler  
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Approximately 170 Tennessee teachers participated in the Tennessee Mathematics, Science and Technology Education Center Math-Science Partnership Teacher Excellence and UMATH Institute workshops this summer at MTSU and four other campuses statewide, event organizers said.

The three-year, nearly \$4 million MSP Teacher Excellence Grant, co-authored by Drs. Dovie Kimmins and Martin of TMSTEC, ends in December.

"For three years, you could triple that number (of Teacher Excellence participants)," Kimmins said, adding that this program reached "two-thirds of the school districts across the state."

The newer, three-year, \$2.3 million MSP UMATH Grant, also co-authored by Martin and Kimmins, will run through December 2011.

"The UMATH Summer 1 Institute focused on number/operation and algebra," Kimmins said. "The activities deal with number sense and modeling of rational numbers and operations with rational numbers."

"Next summer, the focus is on geometry/measurement and problems/statistics."

For other teachers, TMSTEC's Dr. Richard Audet coordinated training for STEM (science, technology, engineering and math) academics at three sites across the state through the MSP Teacher Excellence Grant, Kimmins said.

"The MSP grant (for teacher excellence) will be ensuring teacher excellence to ensure student competitiveness," said Dr. Ron Henderson, interim

chair of the Department of Physics and Astronomy, who coordinated a science component in June.

In addition to MTSU events, TMSTEC held workshops in Clarksville, Chattanooga, Memphis and Knoxville. For more information, call 615-904-8573 or visit <http://frank.mtsu.edu/~mscenter/>.



**PRINCIPLE OF DYNAMICS**—Blackman High School biology and physical science teacher Brenda Pless, above, performs a demonstration of Bernoulli's Principle of fluid dynamics with a rubber ball and an air hose in a Wisner-Patten Science Hall classroom during the Math-Science Partnership Teacher Excellence Grant workshop in early June. The three-year, nearly \$4 million grant earned by Drs. Dovie Kimmins and Mary Martin of the Tennessee Mathematics, Science and Technology Education Center ends in December.

photo submitted



**EXCELLENT WORK!**—Fourth-grade teacher Tonya Donegan, above left, and third-grade teacher Amy McCullough, both of Liberty Elementary School in Bedford County, join participants in a workshop task under the guidance of Dr. Jeremy Winters, MTSU assistant professor of elementary and special education, in a Kirksey Old Main classroom. At right, Winters observes as Bedford County teacher Marie Gilbert, left, and Rutherford County teacher Lynn Kennedy work on a project during the Math-Science Partnership UMATH Grant workshop in KOM.

photos submitted



**CRUNCHING THE NUMBERS**—In the photo at left, Melanie Wood of Union Elementary School in Sumner County works on a fractional computation problem during the UMATH Grant workshop, which focused on number/operation and algebra. The newer, three-year, \$2.3 million MSP UMATH Grant, also co-authored by Drs. Martin and Kimmins for TMSTEC, will run through December 2011.

photo submitted



# Undersea exploration nets kudos for student

## Program's members to be honored by U.S. Department of the Interior

by Gina K. Logue  
gklogue@mtsu.edu

**M**TSU sophomore Terrance Adams and his fellow representatives of the Diving with a Purpose program will travel to Washington, D.C., July 16-17 to accept the "Take Pride in America" award in the Public-Private Partnership category from the U.S. Department of the Interior.

The "Take Pride in America" awards were authorized by Congress "to promote the appreciation and stewardship of public lands, including parks, forests, historic sites and schools," states an Interior Department news release.

Diving with a Purpose, or DWP, is a marine archeological training program developed by the late archaeologist Brenda Lanzendorf of Florida's Biscayne National Park in collaboration with Kenneth Stewart and Eric Denson of the National Association of Black Scuba Divers' Southern region.

More than 13 African-American divers have trained through the program to become marine archaeologist instructors' advocates and 41 more trained as archaeologists' advocates with basic mapping and documenting skills. The DWP Web page defines underwater archaeology as "the study of past human life, behaviors and cultures using the physical remains found in salt or fresh water or buried beneath water-logged sediment."

Stewart says divers in DWP have helped the National Park Service, a division of the Interior Department, to identify and research a number of sunken shipwrecks. He says the divers also helped to develop professional site plans for historical and archeological sites in Biscayne National Park.

"For the first couple of days, Terrance and (fellow diver) Marcus Johnson didn't know what they

were doing," Stewart says. "But by the time they finished the program, they had mastered it completely."

In addition to his work with NABS, Stewart is a co-founder of the Tennessee Aquatic Project, which is described on its Web site as "a nonprofit organization established to expose young people to various aquatic, community, social, recreational, etc., activities they might not otherwise encounter." It is designed for youths ages 8 to 18.

"I went to a party one time, and everybody knew how to swim except me," Adams says. "I've been told by my peers that 'black people don't scuba dive or swim.' But how can you let a color determine who you are?"

Adams says most of the equipment he uses is donated or rented. He admits that he was reluctant to remain with the program when he was younger, but his mother prevailed, much to his subsequent delight.

"I was really ecstatic when I learned about the award," Adams says. "I thought it was time that Diving with a Purpose received some recognition."

The journalism major from Madison says he is



**DEEP AMBITIONS**—MTSU sophomore Terrance Adams pauses for a photo outside the Hartman Park Community Center in Nashville, where he's a member of the Metro Parks aquatics staff. Adams, who's majoring in journalism, will be in Washington, D.C., this month to accept a "Take Pride in America" award from the U.S. Department of the Interior for his work with Diving with a Purpose. The marine archaeological training program helps members study past cultures, and its work "promote(s) the appreciation and stewardship of public lands, including parks, forests, historic sites and schools," according to the Department of the Interior.

photo submitted

content to stay with mass communication for now, but he says he has been told that the absence of a scientific degree will not necessarily impede his progress if he later chooses a career with, for example, the National Oceanic and Atmospheric Association.

Adams will be joined in Washington by Stewart as well as fellow divers Jerald Jones, Marcus Johnson, Kwadjo Tillman and representatives of the Tennessee Aquatic Project. To learn more, go to [www.tennesseeaquaticproject.org](http://www.tennesseeaquaticproject.org). To find out more about the National Association of Black Scuba Divers, go to [www.nabsdivers.org](http://www.nabsdivers.org).

### the RECORD

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## Faculty/Staff Update

### Certifications

The following MTSU staff members recently earned Certified Professional Secretary designations: **Eileen Chalmers** (telecommunications services), **Linda Copciac** (elementary and special education), **Kari Janetvilay** (alumni relations), **Deborah Nichols** (construction administration and facilities services), **Penny Nichols** (Center for Student Involvement and

Leadership), **Theresa Toy** (parking and transportation services) and **Cathy Vaughn** (athletics).

### Presentations

**Dr. Mark Allan Jackson** (English) presented his essay "Black Blues and White Recorders: The Racial Divide Between African-American Musicians and White Producers/Collectors" at the conference "Region, Class, and Culture: New Perspectives on the

American South" held June 12 at Rhodes College in Memphis.

### Publications

**Dr. Edd Applegate** (journalism) has written "History of Advertising," an article that appears in *21st Century Communication: A Reference Handbook*, edited by William F. Eadie, San Diego State University (Sage Publications).



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