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THANK YOU 3M!



Those pictured from left to right: Dr. Larry Banks, Dean, College of Natural & Applied Sciences; Mr. Bob Stephens, Training Coordinator, 3M Corporation, Springfield; Dr. Larry Campbell, Professor, Department of Mathematics, Dr. Yungchen Cheng, Department Head, Department of Mathematics; and Dr. David Ashley, Assistant Professor, Department of Mathematics.

On February 4, 2003, Mr. Bob Stephens, Training Coordinator, 3M Corporation, Springfield, presented a check in the amount of \$10,000 to Drs. Larry Campbell and David Ashley, Department of Mathematics. This money was used to fund a state-wide conference designed for pre-service teachers of mathematics and their sponsors from around the state. The conference was held on SMSU's campus on the 4th and 5th of April and was limited to a total of 100 participants.

The goal of this project was to help in the development of future leaders in mathematics education. K-12 Master Teachers from throughout the state of Missouri presented a series of workshops for elementary, middle grade, and secondary pre-service mathematics teachers. Particular emphasis was placed on assisting pre-service teachers in creating a classroom environment to support teaching and learning that is in congruence with the National Council Teachers of Mathematics, (NCTM), and "Show-Me" Standards.

CNAS SPOTLIGHT ON ALUMNI



Eighty-seven year old Paul Scafe lives just outside Wichita, Kansas, in the small town of Augusta. As Paul will quickly point out, he is not a graduate of SMSU. But, for several reasons, SMSU is proud to claim Paul Scafe as one of its most ardent supporters, especially in the areas of chemistry and education. One big reason is that during the 'great depression' Paul gave up a chance for a college education when he agreed to work to help support several of his siblings through the Teachers' College at Springfield. Another reason is that Paul has since given large charitable gifts to establish scholarships in chemistry and education. All during Paul's working life, he was an hourly laborer at the Mobil Oil refinery for over 40 years. Yet, he and his late wife, Rose, have managed to give South-west Missouri State University over \$50,000 for scholarships. An additional \$50,000 was given to SMSU because Paul worked for Mobil Oil, and they are a matching gift company, which means they matched his gifts dollar for dollar giving a grand total of over \$100,000 for scholarships. Dollar for dollar of income, there are not many SMSU grads who can claim this degree of dedication to their alma mater.

In Paul's mind, his gifts have been a labor of love to honor one of his older brothers, Eugene, who did indeed graduate from SMSU in 1930. Eugene was a chemistry major and captain of the football team, and went on to be a very successful chemist in New Jersey. Paul established the Eugene T. Scafe Memorial Scholarship in the chemistry department in memory of his brother. Paul's Aunt, Myrtle Teter, was a teacher and supervisor of mathematics at Greenwood Laboratory School for over 29 years. The Scafe family established the Myrtle Teter Memorial Scholarship in the College of Education to honor their Aunt Myrtle who played such a key role in making education a top priority in the Scafe family.

Paul, you are one of SMSU's many heros! Thank you for your love of SMSU over the years and your unselfish giving to the alma mater you should have had.



DIRECTLY FROM THE DEAN

by Larry Banks

SMSU is indeed one of Missouri's premier universities with respect to the quality of the undergraduate and graduate education it provides. That education includes the work of faculty and students, at all levels, in research that often results in meaningful outcomes relative to the health and welfare in Southwest Missouri, in the state of Missouri, and in national or international circles. Here are just four of the many possible examples I could cite:

This spring, Dan Beckman (from our SMSU biology department) and Steve Jones (from Drury University's biology department) released the results of a baseline study of Swan Creek and Bull Creek. (This study took place over a summer and involved many SMSU/Drury students - yes, we do try to cooperate with other universities whenever possible!). Their results speak to the current health, and will help establish a baseline for the continued health, of two of Southwest Missouri's most cherished creeks. While Swan and Bull Creeks continue to look like pristine Ozark streams in most respects, it is clear that they have already been somewhat degraded. The overall "grade" that Dan and Steve gave them was a low B to a high C; hardly the A-grades that we would like them to have.

Laszlo Kovacs and Wenping Qiu in our Department of Fruit Sciences are conducting functional genomics research on the Norton grape, a disease-resistant American variety. They are making some very important contributions to international efforts to understand how gene expression determines disease-resistance and stress-tolerance in grapes. As a result of their work on this cutting edge of human knowledge, they have been invited to work jointly with research groups at both the Donald Danforth Plant Science Center in St. Louis and the University of Missouri at Columbia. Their work will save many years in our continuing searches for healthier and more stress-tolerant grape varieties. For details about their program, you can visit their website: <http://mtngrv.smsu.edu/vgdp>

Ryan Giedd, with help from faculty members in his Department of Physics, Astronomy, and Materials Science and faculty members from our Departments of Biology and Chemistry, is totally transforming the university's efforts in applied research leading to improved industrial products and productivity. At his urging, we have created a Center for Applied Science and Engineering (CASE). This center has been adopted by the Springfield Chamber of Commerce as crucial element in the future of Springfield's move toward advanced manufacturing. And, based on a new generation of biodetectors Dr. Giedd has designed, the Office of Naval Research is now in the process of providing this new center with funding for the next two years, so no state tax dollars will be needed to support this effort.

Not all our research efforts are totally practical. But, no recent effort has been more exciting than the following: Kevin Evans, an alumnus and lecturer in our Department of Geography, Geology, and Planning (GGP), together with other GGP faculty, recently confirmed the existence of a 19-kilometer meteorite impact site near Collins, Missouri. This crater-like feature is among the five largest known in the U.S.! It may be one of a string of simultaneous meteorite impacts, along a line from Kentucky across Missouri and into western Kansas, similar to the Shoemaker-Levy string of meteorites that impacted Jupiter in 1994. Kevin and his GGP colleagues continue to substantiate the impact through geophysical modeling, field studies, and laboratory analyses. So far, all the results look promising. Before you rush to buy meteorite insurance however, note that this impact event was roughly 350 million years ago! We are anxious to see where the coming flurry of research activity by our geology faculty and their students will lead.

As I wrote this note last year, the name change of SMSU to **Missouri State University** was before the state legislature. It failed due to the tenacious efforts of one state senator. Now, legislation is again pending, with many state leaders continuing to believe that the time has come for this change and a few others determined not to let this happen. Once again, whether the name change occurs or not, we know that we have arrived at a level where this name is appropriate. The list of SMSU programs and accomplishments continues to grow. The day will come when we cannot be denied.

I hope you enjoy reading through this newsletter, and that you'll contact us and/or try to make plans to join us on the SMSU campus at Homecoming this next fall.

CNAS 2002-2003 OUTSTANDING GRADUATING SENIORS

This year's CNAS Outstanding Graduating Senior Awards recipients will be honored with a brunch on May 16, by the College of Natural and Applied Sciences, with parents and other special guests invited.

Joni Wait - Agriculture



Joni's major is Agricultural Business and she is planning to be married this summer and to begin graduate school this fall at Oklahoma State University, mastering in Agricultural Economics.

Stephanie Love - Biology



Stephanie will be graduating with a biology major and a chemistry minor. She plans to move from her home state of Missouri this fall to Lexington, Kentucky to attend the University of Kentucky's College of Dentistry. During her studies there she will decide whether to practice general dentistry or train for a dental specialty.

Jay Staiger - Chemistry



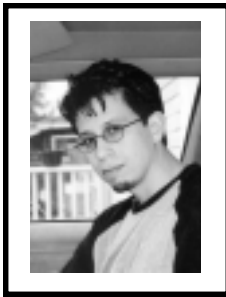
Jay will be receiving a double major in general agriculture and chemistry and plans on joining the University of Arkansas Department of Chemistry graduate program next fall with the intent of earning a Ph.D. in chemistry. Following that he plans on either obtaining a position in industry, possibly with an agricultural chemical company, or in academia.

**Kyle Fitzpatrick - Geography,
Geology, & Planning**



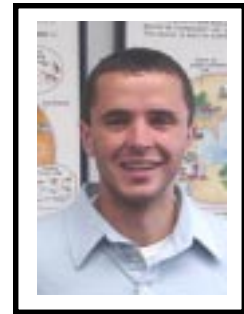
Kyle is a Geography major with Cartographic Services and Religious Studies minors. He currently plans on moving to Colorado to obtain a position in geographic information systems eventually earning a masters degree in a GIS related field.

Nasser al'Ahmad - Computer Science



Nasser's major is in computer science with only three years of study. After graduation he plans on working full-time in the field of software engineering, but will continue his education as he pursues a master's and doctorate in computer science.

Blake Boldon - Mathematics



Blake's major is Mathematics Education. After graduation he plans to complete a master's degree at Southwest Missouri State University and go on to pursue a doctorate in mathematics.

**Melissa Morris - Physics,
Astronomy, Materials Science**



Melissa's major is physics and she has been admitted to the Ph.D. program in Physics & astronomy at Arizona State University in Tempe, Arizona. She plans to work with the Astronomy group at ASU, while working toward her doctorate, and eventually obtain a faculty/research position in the field of astronomy.

Congratulations Seniors!!

RICHTER RECEIVES ONE OF SIX HENRY DREYFUS TEACHER-SCHOLAR AWARDS

Tiffany Maher, Daniel Eddings, and Crystal Wood, three Department of Chemistry graduate students, attended the national American Chemical Society Meeting in New Orleans, LA, March 23-27, and made presentations. Tiffany and Daniel's research and thesis advisor is Dr. Nikolay Gerasimchuk and Chrystal's advisor is Dr. Bryan Breyfogle.

Tiffany Maher



“SYNTHESIS AND STUDIES OF NEW BIS- $\{$ ORGANOTIN(IV) $\}$ CYANOXIMATES.”

Daniel Eddings



“SYNTHESIS, SPECTROSCOPIC AND STRUCTURAL STUDIES AND ACTIVITY OF NOVEL Pd(II) and Pt(II) CYANOXIMATES.”

Crystal Wood



“NSF GK-12 FELLOWS AT SMSU: THE ROLE OF THE FELLOWS.”



President John Keiser, left, congratulating Dr. Mark Richter

The Henry Dreyfus Teacher-Scholar Award was established by the Camille and Henry Dreyfus Foundation in 1993 to provide funding for faculty in the early stages of their careers. Dr. Mark Richter, associate professor of chemistry at Southwest Missouri State University, received one of only six \$60,000 grants awarded this year. The Henry Dreyfus Teacher-Scholar Award program recognizes individuals who excel in teaching, mentorship and research work with undergraduate students. Richter is the first faculty member from SMSU to receive this award.

Richter, a chemistry department faculty member for five years, was awarded the grant for his research project “Electrochemiluminescence (ECL) of ruthenium (II) polyazine complexes containing crown-ether moieties in the presence of metal ions.” The research focuses on using ECL to detect metal ions in chemical solutions. The metal ions can then be used for environmental protection and clinical analyses.

“Dr. Richter displays all the qualities of an outstanding faculty member,” says Dr. Tamera Jahnke, chemistry department head. “He integrates teaching and research with students, and he makes it work at an outstanding level. It’s rare to have a faculty member express himself so well in the lab and in the classroom.”

Institutions may submit one nomination per year. Nominees are selected based on their leadership in encouraging students to strive for excellence in the chemical profession. Selection also is based on submission of a list of publications which contains independent contributions and contributions with undergraduate co-authors; submission of a summary of the nominee’s teaching and research accomplishments with undergraduate students; and a description of how the award funds would be used for undergraduate teaching and research.

Richter received a bachelor of arts degree from Gustavus Adolphus College in 1989 and a doctorate degree in chemistry from Washington State University-Pullman in 1993. He is a member of the American Chemical Society and the Society for Electroanalytical Chemistry. He is married to Tracey Sue Richter and has two daughters, Amy Elizabeth and Amanda Grace. For more information, contact Richter at (417) 836-5508.

2002 COLLEGE OF NATURAL & APPLIED SCIENCES CONVOCATION

The 2002 Natural & Applied Sciences College Convocation was held on October 27th, in Plaster Student Union. Officiating were from L-R: Dr. Jim Baker, Assistant to the President; Mrs. Faith Giedd, CNAS Director of Development; Dr. William Cheek, CNAS Associate Dean; and Dr. Larry Banks, CNAS Dean.



Awards were presented and recognition made to the top faculty and staff for the past 2001 - 2002 academic year.

CNAS EXCELLENCE IN TEACHING

Dr. Bryan Breyfogle, Chemistry; Dr. Tommy Perkins, Biology; Dr. Tom Tomasi, Biology; and Dr. Alexander Wait, Biology.

CNAS EXCELLENCE IN RESEARCH

Dr. Arbinda Rimal, Agriculture; Dr. Chris Barnhart, Biology; Dr. Suchismita Guha, Physics, Astronomy, & Materials Science; Dr. Reza Herati, Chemistry; Dr. Rajinder Jutla, Geography, Geology, & Planning; and Dr. Ralph Sheets, Chemistry.

CNAS EXCELLENCE IN SERVICE

Dr. Brian Greene, Biology and Dr. Ken Vollmar, Computer Science.



College Award recipients: LR bottom: Drs. A. Rimal, S. Guha, R. Herati, T. Tomasi, K. Vollmar, B. Greene. LR back row: A. Wait, R. Sheets, B. Breyfogle. Not pictured: T. Perkins, C. Barnhart and R. Jutla.

Special recognition was made to the following Foundation and University Award recipients:

FOUNDATION RESEARCH

Dr. Mark Richter, Chemistry

UNIVERSITY TEACHING

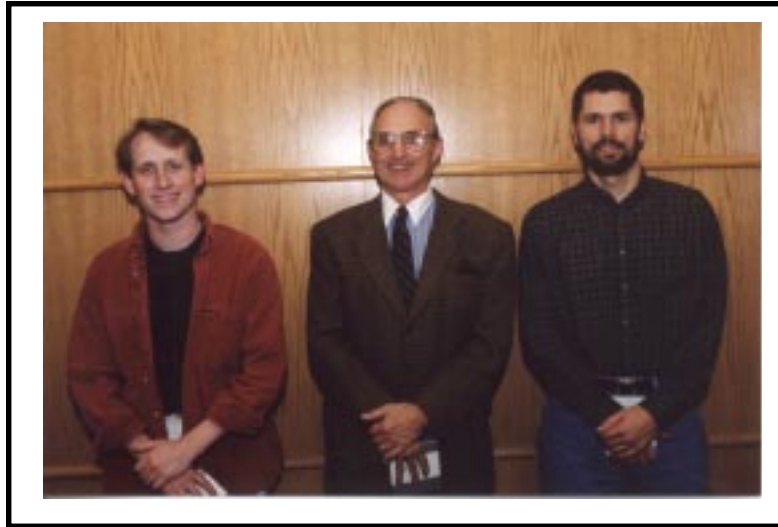
Dr. Alicia Mathis, Biology
Dr. Eric Shade, Computer Science
Dr. Erwin Mantei, Geography, Geology,
& Planning
Dr. George Mathew, Mathematics

UNIVERSITY SERVICE

Dr. Lyndon Irwin, Agriculture
Dr. Vernon Thielmann, Chemistry

UNIVERSITY RESEARCH

Dr. John Havel, Biology
Dr. Paula Kemp, Mathematics



Pictured LR, Drs. Mark Richter, Erwin Mantei, and Eric Shade. Not pictured, Drs. Alicia Mathis, George Mathew, Lyndon Irwin, Vernon Thielmann, Dimitri Ioannides, and Robert Pavlowsky.

Staff employees were also recognized and Awards were presented in the following categories:

**INSTRUCTIONAL SUPPORT -
SUPERVISORY**

Mrs. Katherine Gietzen, Physics,
Astronomy, & Materials Science

ADMINISTRATIVE SUPPORT

Mrs. F. Chris Arney, CNAS

SUPPORT SERVICES

Mrs. Robin Kennedy, CNAS



Pictured L-R: Mrs. Katherine Gietzen, Mrs. F. Chris Arney, and Mrs. Robin Kennedy

HISTORY OF AGRICULTURE AT SOUTHWEST MISSOURI STATE UNIVERSITY

In commemoration of SMSU's upcoming centennial, the agriculture department is pleased to announce publication of a new book, "History of Agriculture at Southwest Missouri State University." In 1904, the Missouri State Superintendent of Public Schools, W. T. Carrington, wrote of his support of agricultural instruction in the public schools and also in Normal Schools. Thus, it was no surprise when Missouri's newest Normal School was established in Springfield the next year, Agriculture was a part of the curriculum as it has been since. This 200-page book is a culmination of Dr. Lyndon Irwin and his Agricultural History class's research on the history of agriculture at Southwest Missouri State. Agriculture, like SMSU, has had its ups and downs throughout the years, with two World Wars, the Great Depression and many other events. This book tells about the people, both faculty and students, who were involved in the development of agriculture at SMSU during those early years. Copies are available from the agriculture department's website for \$20 which goes to the agriculture department's scholarship fund. The website address is: <http://ag.smsu.edu/agbook.htm>.



Pictured above, second from left, a young Mr. Glenn E. Karls, (before earning his doctorate and for whom Karls Hall was named), with students on a dairy farm field trip in 1940.

AGRICULTURAL INDUSTRY STUDY CLASS VISITS AGRICULTURALLY-RELATED BUSINESSES IN MISSOURI

The Agricultural Industry Study class is designed to provide SMSU students an opportunity to personally visualize the management process in firms active within the agricultural business sector of the U.S. economy. On January 6, 2003, 17 students, accompanied by Assistant Professor Arbindra Rimal and Professor Bruce Johnson, boarded a chartered bus for a five-day trip to visit 12 agriculturally-related businesses in Springfield, Monett, Lee's Summit, Kansas City and Jefferson City, Missouri, as well as in Stillwater and Olathe, Kansas. During the week, students engaged in a dialogue with 47 managerial-level personnel, including four CEO's, to explore the how and why of each firm's operations. Areas of student inquiry during the Study included organizational structure, product development, financial resources, marketing strategies, growth opportunities, and human resource requirements as well as employee training programs.



Front Row: Jamie Kinser, Chad Lilienkamp, Jesse Grover, Stacy Wildeisen, Amanda Armacost, Amanda Moore, Dustin Fredendall, Dr. Arbindra Rimal, Sue Morgan, Cody Rice
Back Row: Michael Reese, Travis Bahr, JaNetta Fowler, Matt Phipps, Lacy Swiney, Richard Thompson, Jason Newton, Chrs Eggerman, Dr. Bruce Johnson.

HORTICULTURE CLUB PROUD TO BE A PARTICIPANT IN HABITAT FOR HUMANITY HOUSING PROJECT

The SMSU Horticulture club is dedicated to the learning and teaching of the diverse realm of the horticultural sciences. It strives to broaden members' perspectives and experiences in the agricultural sciences as well as provide awareness and service to the surrounding community.

Last year the club raised over \$800 in landscape materials from local business to help landscape the Habitat for Humanity housing project. Habitat is a great way for all university clubs to come together for a cause. We are proud to be a member of that.

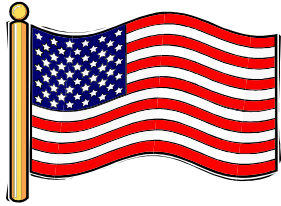


Woody Justice
Owner of Justice Jewelers

FINE WINE AND FRUIT BRANDY

By Kimberly Rey

On January 9, 2003, SMSU-Mountain Grove hosted a Wine and Brandy Tasting at Highland Springs Country Club. The event was sponsored by Mr. Woody Justice of Justice Jewelers, and supported by Mr. Ron Junge of Brown Derby International Wine Center. Dr. Jim Baker, Chancellor of SMSU-Mountain Grove, talked about the mission of the Mountain Grove campus and the Mid-America Viticulture and Enology Center (MVEC) located there. MVEC is a premier provider of grape and wine research, education, and service to the grape and wine industry. Dr. Murli Dharmadhikari, Director of MVEC, discussed wines from Missouri and around the world. Kimberly Rey, Assistant to the Director and Distiller for SMSU, discussed the expanding production of fruit brandies in Missouri and mid-America, and explained how SMSU-Mountain Grove plays an important roll in the development of the brandy industry. Guests had the opportunity to taste many varieties of premium, gold medal Missouri wines along with fruit brandies from America and Europe. It was an enjoyable and educational evening, which brought to light for many, the extraordinary projects SMSU-Mountain Grove is working on for the advancement of the grape and wine industry. The staff of SMSU-Mountain Grove and the Mid-America Viticulture and Enology Center would like to thank Mr. Justice for his generous support and the opportunity to present this tasting.



SCOTT JONES SELECTED FOR HEALTH SERVICES COLLEGIATE SCHOLARSHIP PROGRAM

Scott Jones is enrolled in the accelerated master's program in chemistry and is currently a graduate assistant within the department. He plans to graduate in the fall of 2004.

Scott, on left, is pictured with LTJG Chuck Wilhite (stationed on the USS Enterprise as an Industrial Hygiene Officer in the Medical Service Corps.) and HMC Dan Hipilito (Navy medical recruiter from Kansas City). Scott and Chuck grew up together, and joined the Navy in 1993. They both were Hospital Corpsman during their enlisted careers.

The Health Services Collegiate Scholarship Program offers military pay and allowances (\$1800-\$2000 per month) and active duty benefits while attending school full time. You must graduate from an accredited school within 24 months after beginning the program. A military service in the Medical Services Corps is required. There was only one position available in the nation for a Radiation Specialist this year in the HSCP, and Scott was selected for it. He will serve a two-year internship under a senior Medical physicist once he finishes school and Officer Indoctrination School (OIS).



In Scott's case, he will specialize in Health or Medical Physics as a Radiation specialist upon completion of his MS degree in chemistry and commission as a LTJG/O-2 in the Medical Service Corps. Radiation Specialists function as Medical Physics experts in areas such as Nuclear Medicine, Therapy Physics, Brachytherapy, X-ray machine acceptance and performance surveys. Radiation Health Officers serve as Health Physicists including serving as Radiation Safety Officers on Nuclear Regulatory Commission licenses. These officers are entrusted with the responsibility for the health and safety of all personnel associated with radioactive materials or radiation generating equipment. This includes patients, staff and members of the general public.

DR. KEVIN MICKUS VISITS HORN OF AFRICA

EXCELLENCE IN ADVISING

Dr. Tammy Jahnke, Department Head, Department of Chemistry, and **Ms. Angela Spence**, laboratory supervisor and advising coordinator, Department of Biology, were each recognized on Wednesday, March 19th, at the Master Advisor Reception and Presentation of Excellence in Advising Awards ceremony at SMS. Dr. Jahnke, received the Faculty Excellence in Advising award and Ms. Angela Spence received the Professional Staff Excellence in Advising award. Ms. Spence has also been chosen to receive the Outstanding Advisor award from the National Academic Advising Association.

CONGRATULATIONS LADIES!



Ethiopians putting out seismometers to record seismic waves in the rift valley.

Nearly 100 U.S., British, and Ethiopian geophysicists were deployed across central Ethiopia in order to perform the largest geophysical survey ever conducted in Africa. This study, which consisted of seismic, gravity, and electromagnetic investigations of the East African Rift valley, will aid in determining why the Earth is rifting or splitting apart and may form an ocean basin similar to the Red Sea. Dr. Kevin Mickus, Department of Geography, Geology, & Planning, is leading the gravity investigations that will aid in determining the deep (up to 50 km in depth) structure of the rift valley.

In order for the College of Natural and Applied Sciences to continue to excel, your help with scholarship and development funds would be greatly appreciated. A variety of giving opportunities are listed below. Please complete the area in which you wish your gift credited.

\$50 _____ \$100 _____ \$150 _____ Other _____

- Agriculture _____
- Biology _____
- Chemistry _____
- Computer Science _____
- Fruit Science _____
- Geography, Geology & Planning _____
- Mathematics _____
- Physics, Astronomy & Materials Science _____
- College of Natural and Applied Sciences _____

You may also make your contributions payable to the following scholarship fund:

College of Natural and Applied Sciences Scholarships

Your gift is tax deductible. Please make checks payable to Southwest Missouri State University Foundation and return with this form to Southwest Missouri State University, College of Natural and Applied Sciences, Temple 142, 901 S. National, Springfield, MO 65804.

Please feel free to use the enclosed postage free envelope for your contributions and news items.

We would like to hear from you about what you have been doing since attending SMS.

Name: _____

Major: _____

Degree/Year Granted: _____

Year/Years Attended SMS: _____

CALENDAR OF UPCOMING EVENTS

Thursday, May 8	Last Day of Spring 2003 Classes
Friday, May 9	Study Day - No classes - Offices Open
Saturday, May 10 - 15	Final Exams
Thursday, May 15	Senior Banquet
Friday, May 16	Commencement
Monday, May 19	Intersession Classes Begin
Monday, May 26	Memorial Day - No Classes - Offices Closed
Monday, June 9	Summer Session 2003 Begins

HOMECOMING 2003 *SAVE THE DATE* OCTOBER 16-17-18

Southwest Missouri State University is a community of people with respect for diversity. The University emphasizes the dignity and equality common to all persons and adheres to a strict nondiscrimination policy regarding the treatment of individual faculty, staff, and students. In addition, in accord with federal law and applicable Missouri statutes, the University does not discriminate on the basis of race, color, religion, sex, national origin, ancestry, age, disability, or veteran status in employment or in any program or activity offered or sponsored by the University. The University maintains a grievance procedure incorporating due process available to any person who believes he or she has been discriminated against. Southwest Missouri State University is an Equal Opportunity/Affirmative Action employer. Inquiries concerning the grievance procedure, Affirmative Action Plan, or compliance with federal and state laws and guidelines should be addressed to Jana Long, Equal Opportunity Officer, Office of Human Resources, Carrington Hall 128, 901 South National, Springfield, Missouri 65804, (417)836-4252.