

THE COLLEGE OF
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HOMECOMING AGENDA!

Special Presentation: Friday, October 18th, 3:00 PM, Temple 003, "Environmental Science in the Real World - Perspectives from an SMSU Graduate" by Robin Melton, former SMS graduate. See page 6 for details.

All-Alumni Dinner and Awards Presentation, 6:00 PM, Friday, October 18th, University Plaza Holiday Inn Hotel Ballroom, \$22.50 per person, reservations requested. SMSU Alumni Association 417-836-5654.

CNAS TENT-SIDE - BearFest Village, Lot #24, Saturday, October 19th, CNAS Barbecue 10:00 - 1:30 PM. Half-price tickets for the game are reserved for all CNAS alumni and friends! Call SMS Ticket Office, 1-888-4SMS-TIX or 836-SMSU. Tickets are \$6 for reserved bleacher back seats. When ordering be sure to mention you want tickets in the block of reserved seats under CNAS.

AGRICULTURE

Saturday, October 19th, Alumni meeting, 11:00 AM, Karls 101.

BIOLOGY

Department of Biology 'Open House' Friday, October 18th, 2:00 - 4:00 PM and Saturday, October 19th, 9:00 - 11:00 AM. All Biology alumni and friends are invited to visit with faculty and tour the department. Other activities are planned.

CHEMISTRY

Chemistry Department Open House, 4th floor Temple Hall, Friday, October 18th, 1:00 - 5:00 PM and Saturday, October 19th, 9:00 - 11:00 AM. On Friday alumni will have the opportunity to visit with faculty, tour the department, view student research project results, and visit with current students.

MATHEMATICS

8:00 - 11:00 AM Saturday, October 19th, Cheek Hall Math Office 10M, department reception and tours of departmental facilities will be held for all alumni and friends of the department. Continental breakfast.
RSVP 417-836-5112 by Oct. 16th. For more info contact Yungchen Cheng, e-mail: yuc471f@smsu.edu

PHYSICS, ASTRONOMY, & MATERIALS SCIENCE

2:00 - 4:00 PM Friday, October 18th, tours of departmental facilities will be held for all alumni and friends of the department. Refreshments will be served.

CNAS SPOTLIGHT ON ALUMNI



Lieutenant General John E. Miller holds a Bachelor of Science degree in Mathematics from SMS which he received in 1963, and a Master of Science in Operational Research Analysis from Georgia Institute of Technology. He has over 30 years of active commissioned service with the United States Army and is presently the Vice President for Defense Business Development with ORACLE in Reston, Virginia. Lieutenant General Miller served two tours in Vietnam and has received numerous awards and decorations some of which include the Distinguished Service Medal, Silver Star Medal, the Legion of Merit with one Oak Leaf Cluster, Soldiers Medal, Purple Heart, and the Army Achievement Medal. Lieutenant General Miller has also earned the Combat Infantryman Badge, the Parachutist Badge, the Air Assault Badge, and the Army Staff Identification Badge. John has great memories of SMS and throughout the years has been very loyal to his alma mater. He is married to Joan Capano of DeRidder, Louisiana, and they have four children, Claire, Drew, JoAnna, and Mary Ellen. John is looking forward to visiting with alumni and friends when he returns to Springfield in October to attend SMS' Homecoming and his ROTC reunion.



DIRECTLY FROM THE DEAN

by Larry Banks

Mark your calendars for Saturday, October 19! If you have ever been back for an SMS homecoming, you probably saw tents and food being sponsored by other colleges, and wondered what your college was doing. No longer – we are going to have our own tent up, and the CNAS department heads, in their chef's aprons, will be ready to serve you. If there is any way for you to get here (within reason that is), we hope you will. Many of our CNAS departments have big plans to show their alumni around, and faculty from all our departments will be on-hand to greet and talk with you.

Even in these very austere times of reduced state operating funds, the School of Agricultural Sciences does have two state-funded initiatives that should help us move forward. Based on the generous gift of \$1.7 million dollars from Bill and Virginia Darr and tremendous support by Southwest Missouri legislators, the state was leveraged into the initiation of a building bond that will provide us with another \$2.6 million dollars to add to our Bill and Virginia Darr Agricultural Demonstration Center project. These two chunks of money have put us within \$1.5 million of the total dollar amount we need to get this Center up and going. Also, our Department of Fruit Science will benefit significantly from a newly increased state tax on Missouri wine sales. In preparation for becoming a multi-state power house in grape growing and wine making, we have established the Mid-America Viticulture and Enology Center to be housed on the Mountain Grove Campus.

On the Springfield campus, the Department of Industrial Management decided to move from this college to the College of Business. While we are sorry to see them go, we need to understand that this move was felt to be the best for the University as a whole. And, this move has created some much-needed space for us in Kemper Hall. As remodeling and refitting dollars allow, we are going to be able to move all of the Department of Physics, Astronomy, and Materials Science (PAM) into Kemper. This move will not only be a tremendous boost to that department, it will also allow for much needed space in Temple Hall for student/faculty research in biology; chemistry; and geography, geology, and planning. So, this departmental move has resulted in a win-win for both business and the sciences.

As you read through the remainder of this newsletter, please note the examples of the grants being received by our faculty. Many faculty continue to work very hard to bring the additional dollars we need to provide good research experiences for both our undergraduate and graduate students. While our record total of over \$3,000,000 in grants in 2001 fell to just under \$3,000,000 in 2002, that is still a large number of dollars for a school with our background. On the other hand, we cannot be satisfied with these numbers. There are some examples of metropolitan universities like ours that bring in 10 times these amounts in grants each year. We will continue to work hard to get there.

Our eHighSchool (now renamed the Missouri Virtual School) is now in its third official year of existence. It continues to provide needed mathematics, science, and computer science courses to underserved students in a number of small rural schools in Missouri. In addition, the school is now teaching Spanish I and Spanish II. The new Director of the school, Dr. James Puckett, is determined to make this virtual school serve the entire state – it is definitely needed.

Thanks again to all you alums in the Virginia / Washington D.C. area for the great turnout when Faith Peterson and I were in the area. To everyone, if we don't get to see you at homecoming, please feel free to drop by my office or the departmental office of your major any time you are in Springfield.



**VOLLMAR & CHENG
RECEIVE \$400,000
OVER THREE YEARS**

Dr. Ken Vollmar, Department of Computer Science, and Dr. Yungchen Cheng, Department of Mathematics, have received a grant from the National Science Foundation's "Computer Science, Engineering, and Mathematics Scholarships (CSEMS)" program, which supports scholarships for academically talented students with financial need. The three objectives of SMSU's CSEMS program are to increase the number of newly enrolled students and the retention rate of enrolled students, to improve

student performance in introductory courses in computer science and mathematics, and to increase students' interactions with workforce and graduate-level universities.

Over the period Jan. 1, 2003 - Dec. 31, 2006, SMSU will receive \$397,788, of which \$90,500 each year will be used for scholarships of approximately 40 first- and second-year students in the Computer Science and Mathematics majors.

Besides scholarships, the program will fund activities designed to improve student performance in introductory courses by expanding the amounts of formal contact with faculty mentors, tutoring by peers, and informal contact among students to address the isolation of individuals (especially isolation among members of underrepresented groups, e.g., women, minorities, and persons with disabilities).

Scholarship recipients will be required to meet academic goals and to attend regularly scheduled sessions with faculty mentors, workshops on professional workplace conduct, and two scheduled presentations each semester

**ACM MID-CENTRAL REGIONAL
PROGRAMMING CONTEST**

The ACM (Association for Computing Machinery) Mid-Central Regional Programming Contest will be held this year on Saturday, November 2, 2002. The Mid-Central Region is composed of Missouri, Tennessee, Kentucky, Illinois, and Arkansas. One hundred teams are expected to participate at 9 local sites throughout the region: Southwest Baptist University, Arkansas Technical University, Murray State University, Tennessee Technological University, University of Kentucky, Principia College, Rockhurst University, Valparaiso University, and Illinois Institute of Technology. The top team in the region will advance to the ACM World Finals in March 2003, at Hollywood, California., where 64 teams from around the world will compete for honors. Teams from each region are selected from 3,000 teams in the world. Two teams of three members each from SMSU, advised by Dr. Jamil Saquer, will travel to Southwest Baptist University in November for the competition. The director of the ACM Mid-Central Contest Region since 1991 is Dr. Joseph W. Trigg. The chief programming contest judge of the region since 1996 is Dr. Eric Shade, assisted by two other judges from Rockhurst University and Loyola University of Chicago. Saquer, Shade, and Trigg are members of the CSC faculty at SMSU.



REZA HERATI

Dr. Reza Herati, Department of Chemistry, has received \$32,500.00, from the American Chemical Society Petroleum Research Fund, for his proposal titled, 'Syntheses and Applications of Some Novel Derivatives of Poly(ethylene glycol).' Special acknowledgment was given Dr. Herati on the funding of his grant by the Springfield News Leader. This grant is to support research toward new polyethylene glycol derivatives for medical applications.

**MATHEMATICS
NEWSBRIEFS**

The Mathematics Departments welcomes **Dr. Jorge Rebaza**, who joined the Math faculty this fall. Jorge completed his education and taught in Peru, Germany, and Atlanta, Georgia, before moving to Springfield. Other newcomers during this past year to the Department of Mathematics were three administrative personnel employees, **Jane Franklin**, May, 2001; **Ramona Taylor**, April, 2002; and **Colleen Crain** July, 2002.

And, after thirty-three years in the Department of Mathematics, **Dr. Woodrow Sun** will retire on December 7th, 2002.

ASAD FAREWELL

The Mathematics Department was saddened this summer by the death of **Dr. John Prater** on July 22, 2002. Dr. Prater was a Professor of Mathematics at SMSU from March, 1959, through June, 1964, then again from September, 1971 through July, 1982. He was also Professor of Computer Science at the University of Missouri – Rolla, where he was awarded Emeritus status in September, 1996.

Dr. Daniel Waldstein
Integrated Pest
Management
Department of Fruit
Science



We are pleased to welcome **Dr. Daniel Waldstein** as Assistant Professor of Integrated Pest Management in the Department of Fruit Science of SMSU-Mountain Grove. Dr. Waldstein holds a Bachelor of Science degree in Environmental Science and Ecology from Minnesota State University and a Ph.D. in Entomology (Integrated Pest Management) from Cornell University. He was the Co-coordinator of the Michigan Apple IPM Implementation Project through Michigan State University before he began working in his current position at Mountain Grove on July 1, 2002.

Integrated Pest Management or IPM is a multi-faceted approach to pest management that uses physical, mechanical, cultural, and biological tactics and grower education to keep pest numbers low enough to prevent unacceptable damage or circumstances. IPM utilizes regular monitoring to determine if and when treatments are needed.

Dr. Waldstein's major responsibilities are to conduct research in IPM with emphasis on the etiology and ecology of diseases and insect pests in order to develop sustainable management strategies. He will also be involved in making insect pest and disease management recommendations for growers and in operating the plant pest and disease diagnostic clinic.

Don Moll and Wachira Kitimasak
Participate in Thailand's
Royal Golden Jubilee
Ph.D. Program

Mr. Wachira Kitimasak, a graduate student from Chulalongkorn University, Bangkok, Thailand, is on the SMSU campus this fall. Wachira is working on his Ph.D. dissertation under the direction of Dr. Don Moll of the SMSU Biology Department. Kitimasak and Moll are participants in Thailand's Royal Golden Jubilee Ph.D. Program. The Thai government has created a fellowship program to support the education of a greatly increased number of Thai Ph.D.'s in the field of science and technology over the next 25 years. These Ph.D.'s will replace the anticipated retirements in an aging professoriate in this field in Thai Universities. In order to assure the international level of quality of these new Ph.D.'s, foreign advisors have been recruited to co-advise the students' academic progress (with an advisor at the home university). The students must spend a period of time involved with research in American universities before they receive their degrees. Because of Moll's experience with the ecology and conservation of endangered tropical turtles, he was asked to fill the role of co-advisor (with Dr. Kumthorn Thirakhupt of Chulalongkorn University) for Wachira's Ph.D. project concerning the natural history and development of captive maintenance and head-starting techniques for the endangered striped giant softshell turtle. This turtle lives only in some of Thailand's rivers and is thought to be the largest freshwater turtle in the world, attaining a length exceeding 4 feet, and a weight of several hundred pounds. It is seriously depleted in numbers due to habitat changes resulting from dam construction and from overharvesting for meat and for the international wildlife trade.

Moll has participated in fieldwork related to the project during two previous trips to Thailand. He will return at least once more when Wachira defends his completed dissertation early next year.

Pictured below left to right, Dr. Don Moll, Professor, Biology Department and Mr. Wachira Kitimasak, graduate student from Chulalongkorn University, Bangkok, Thailand.



HOMECOMING *SPECIAL* PRESENTATION
Environmental Science in the Real World
Perspectives from an SMSU Graduate

Ms. Robin Melton, a graduate of SMS with a BS in geography, is president of Environmental Works, Inc. Environmental Works is a 10-year old Springfield Company, with geologists, chemists, environmental engineers, and other professionals who provide consulting and contracting on environmental issues. Ms. Melton will share her experiences as an environmental scientist in solving modern day problems during the homecoming festivities.

AGRICULTURE
BANQUET

The Department of Agriculture will be hosting its annual Scholarship & Awards Banquet on November 11th.



Dr. STEVE JENSEN
Department of Biology
RECEIVES FEDERATION of FLY FISHERS
RECOGNITION AWARD

Because of Steve's professional training in aquatic entomology (specifically mayflies [Ephemeroptera]), he has been invited on numerous occasions to give presentations to fly fishing clubs and groups throughout the Midwest. It was, then, as Steve says, "only natural to develop an interest in fly fishing." As a result, he became a member of the Federation of Fly Fishers (FFF) in 1982 and a life member in 1985. The Federation is the only international organization to promote conservation, education, and restoration through fly fishing and, as such, it is a federally-recognized 501 3C not-for-profit organization.

In 1993, a Federation member, Darwin Atkin (then of Porterville, California), initiated a fund raising activity for the Federation entitled the International Fly Tyer's Fly Plate Series. Briefly, what Darwin envisioned, was collecting fishing flies tied by fly tiers from throughout the world, matting and framing them as works of art, and offering them for sale as fund raisers for conservation and education at auctions held at regional and international meetings of the Federation.

Steve, being a contributor to the project from its inception and, after taking a class in matting and framing from Darwin at an international meeting in 1995, became increasingly more involved. In 1997 he was designated co-chair of the project and assumed full responsibility for the matting and framing of the plates while Darwin collected the flies and administered the project. Sixteen plates were produced annually: fourteen to be sold at regional meetings and two to be sold at the international meeting. At the conclusion of the project in 2001, in excess of \$120,000 had been raised for conservation and education through the sale of the fly plates.

In 2001, the Federation's Board of Directors unanimously approved a proposal from Steve to initiate a similar project in 2002 entitled Legends of Fly Tying Fly Plate Series. He serves as chair of that project and it has been approved for a minimum of five years. To date this year, Steve has produced eight fly plates of the new series and three of those plates have been sold (for a combined total of \$3,840). The new series increases the number of plates produced annually from sixteen to eighteen, increasing by two plates support for the organization.

On August 8th, 2002, Steve Jensen was recognized as the Federation's Man of the Year at an Awards Luncheon held in Livingston, Montana. It is also fitting to note that the award was presented to him by his mentor and dear friend, Darwin Atkin!

Congratulations Steve!

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 funds:

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

October 17, 18, & 19	<i>HOMECOMING WEEKEND!</i> <i>See you here!</i>
November 27 - 29th	Thanksgiving Holiday No classes
December 5th	Last Day of Fall 2002 Classes
December 6th	Study Day
December 7 - 13th	Finals Week
December 12th	Senior Banquet
December 13th	Fall 2002 Commencement
December 24 - January 01	Christmas Holiday No classes
January 6 - 10th	Spring 2003 Intersession Classes
January 13th	Spring 2003 Classes Begin

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.