

## THE COLLEGE OF NATURAL & APPLIED SCIENCES

www.science.smsu.edu.

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## THE COLLEGE OF NATURAL AND APPLIED SCIENCES NAMES ASSOCIATE DEAN OF AGRICULTURAL SCIENCES



Dr. Inno Onwueme combines a rural childhood upbringing with a very cosmopolitan professional career. His earliest years were spent in rural villages in West Africa, where agriculture was a way of life. He recalls that he was involved in farm work after school each day, and that this gave him a timely introduction to agriculture. He left home early to go to a boarding high school, after which he proceeded to the US, as a teenager, to study agronomy at the famous University of California, Davis. He graduated at the top of his undergraduate class in 1966, and

then went on to earn the PhD in Crop Physiology also at UC, Davis. Despite lucrative job offers at the time, he returned to Africa to commence a professional university career that would take him literally all over the world. During his career, he has served as head of a department, dean of a university college of agriculture, dean of a graduate school, director of an erosion research center, and even acted as university president for short periods. After he immigrated to the US with his family, he served a stint at the University of Technology in Papua New Guinea and other South Pacific locations, before finally settling in Pennsylvania. There, he was director of an academic center focusing on agricultural sustainability. He also chaired Pennsylvania's 45-institution consortium of colleges/universities dwelling on the greening of campus operations and curricula. While committed to and promoting sustainability, he strongly advocated that the sustainability message must be crafted and conveyed in a non-confrontational fashion, which makes it more palatable for the intended audience.

Dr. Onwueme's agricultural research record falls into three main areas. The first deals with sustainability and the environment. In this context, he was involved in pioneering work at UC Davis, looking at the effects of heat stress in the 1960's when hardly anybody else was thinking of global warming. His studies include the agricultural implications of environmental stress (heat and shade), environment tolerance, and environment degradation (erosion).

Dr. Inno Onwueme  
Continued from Page 1

His second agricultural research area deals with the production physiology of sweet potato and other root/tuber crops. He has authored three widely-used textbooks and published numerous refereed articles in relation to these crops. One of these books was published by the FAO (United Nations Food & Agriculture Organization), after being commissioned by them.

The third theme of Dr. Onwueme's research has been the characterization, conservation and utilization of biodiversity, including novel practices for the propagation, domestication, and production of various semi-wild medicinal and condiment plants. Dr. Onwueme has published extensively in these areas of research, and in agriculture generally.

Dr. Onwueme has lived and worked for several years on each of four continents: America, Africa, Europe, and Asia/Pacific, while his professional duties have taken him to about a third of all the countries on earth. He has been a consultant to the United Nations, a position from which he led missions to Fiji, Vanuatu, Zambia, Samoa, Kenya, Tonga, Zimbabwe and Indonesia. These missions advised the respective governments on agricultural, food security and environmental issues. One recent mission (undertaken for the United Nations Development Program, UNDP), took him to the remotest parts of Irian Jaya province, Indonesia, where the food system had collapsed under the impact of drought and frost attributed to the *El Nino* phenomenon. The mission designed sustainable development strategies for alleviating the impact of these environmental disasters.

In addition to the United Nations, Dr. Onwueme has received grants and performed collaborative assignments from numerous global organizations involved in agriculture and natural resource issues. These organizations include the European Union, the Australian Center for International Agricultural Research (ACIAR), the International Foundation for Science (IFS) based in Sweden, the German Foundation for International Development (DSE), the World Meteorological Organization (Geneva), the Japanese International Cooperation Agency (JICA), Papua New Guinea Coffee Industries Corporation, Tate & Lyle Ltd. (U.K.), the USDA (US), the National Science Foundation (US), Sprint Inc. (US), and the Department of Environmental Protection (US).



Dr. Onwueme's life philosophy is anchored on the fact that we are all human beings. He believes that being human comes with two apparently contrasting features for each of us: it entitles us to a minimum quantum of dignity; and it saddles us with inescapable frailties. However exalted we are, we cannot escape the frailties; and however lowly we are, we cannot be denied the minimum dignity. Being human sets the upper and lower limits beyond which we cannot oscillate.

Dr. Onwueme indicates that his greatest pride is in the people (students, faculty, and staff) that he has mentored over the years, and the institutions that he has helped to nurture. He takes great delight in watching his former students/mentees making significant impacts in their respective areas and their respective countries all over the world. Similarly, many academic units that he pioneered and led have continued to flourish and thrive.

Dr. Onwueme is an amateur literary writer. He has to his credit, a published book of culturally significant short stories, a novel ready for publication, and several poems. In this context, he explores the difficult societal transition (from traditional to modern) in which many developing countries are currently stagnated. He is particularly intrigued by the role of agriculture and ethics in such transitions

Dr. Onwueme indicates that he comes to SMSU with very high hopes that he can make a difference. He is thrilled at the University's decision to raise the profile of the agricultural sciences. He looks forward to the collaboration and valuable contributions of faculty, staff and students to achieve this goal.

We, in CNAS, welcome Dr. Onwueme and look forward to working with him.



## DIRECTLY FROM THE DEAN

*by Larry Banks*

**Happy Birthday SMSU!** Yes, this year is SMSU's 100<sup>th</sup> birthday! Special events have taken place and will continue to occur between July 1, 2004 and June 30, 2005. Please see the SMSU centennial calendar (<http://www.smsu.edu/centennial/>) for the names and timing of all these events. One of our biggest bashes every year is homecoming, which will be on Saturday, October 23 this year. As in the past few years, the College of Natural and Applied Sciences will

join the other academic colleges to have a common tent area at the Bear Fest celebration prior to the football game. It is just across Grand from the football stadium. We will feed you and CNAS department heads and other faculty will be there to chat with you about past and current events. If there is any way for you to attend this event (within reason that is), we hope you will be there. To everyone: if we don't get to see you at homecoming, please feel free to email me, or to drop by my office or the departmental office of your major any time you are in Springfield to help us celebrate our birthday.

When the former Department of Consumer and Family Studies was moved from the College of Health and Human Services, the Family Studies portion went to the College of Education and the remaining portions of that department were transferred to this college. These remaining units include Clothing and Textile Merchandising, Hospitality and Restaurant Management, Housing and Interior Design, and Vocational Family and Consumer Sciences. These units are in the process of selecting a new departmental name as this newsletter is being written – Applied Consumer Sciences is a leading candidate. In any case, this is a large and still growing department that deserves all the emphasis we can give it. We continue to strive for excellent gains in all our applied sciences. This new department in CNAS will also be a part of the development of our School of Agricultural Sciences that Dr. Onwueme will be helping us develop.

As always, grants and outside development activities have been a source of pride for CNAS this past year. The Center for Applied Science and Engineering (CASE), an activity that originated in CNAS, has now been deemed so important to the university as a whole that it has been moved to report directly to the Vice President for Academic Affairs. That activity, along with the initiative it has spawned with the City of Springfield (namely, the Jordan Valley Innovation Center, or JVIC) now represents an influx of over \$20 million dollars to the SW Missouri area. In biology, we continued the development efforts of the Bull Shoals Field Station thanks to Janice Greene's grant from the National Science Foundation, and we now have a campus sharing relation with researchers from the National Parks Service. Thanks to the efforts of Dr. Clydette Alsup and Dr. Weston Walker, the Department of Agriculture has just received one of the rare Agricultural Challenge Grants from the US Department of Agriculture and to the efforts of Dr. Lyndon Irwin for a large subcontract from the Missouri Farm Bureau to help assimilate the Ag in the Classroom program. Larry Campbell in our Mathematics department recently received a joint grant with Central Missouri State for the primary K-4 teacher development grant that DESE will award over the next three years. Our Missouri Virtual (K-12) School, is now in its sixth official year of existence with an enrollment of over 500 students. In fact, it is now as large as we can let it be without an influx of new dollars. Grant proposal efforts are underway to try to supplement its current budget. These efforts, and other similar efforts in the college, are intended to benefit our students and our constituents.

On behalf of CNAS and all of SMSU, thanks again to Dr. David Osborne from our 1982 graduating class in chemistry for joining Faith Giedd and me in hosting an alumni reunion activity for all area SMSU graduates on October 2 of this year. David and his wife provided their beautiful home in Santa Rosa, CA for this occasion. And, thanks you SMSU alums in the Santa Rosa area for attending this reunion. Faith and I hope to continue to come to cities across the United States for more of these celebrations. So far, we have an invitation from Art Hurtado to host a reunion activity in the Washington, D.C. area next September 17, and we have an invitation from Dr. Matt Harthcock and his wife Patricia to host an alumni reunion activity in their home in Oakland Township, Michigan in late summer or early fall 2005.

## CNAS 2004 CONVOCATION, EMERITUS DINNER

### CNAS Annual Fall Convocation

The College of Natural and Applied Sciences will be holding our 2004 Fall Convocation on Thursday, October 21st, recognizing faculty and staff of their outstanding performances and accomplishments throughout the past 2003-2004 year. CNAS faculty emeritus have been invited to attend this year's Convocation as well as a special Emeritus Faculty Dinner immediately preceding the Convocation. Watch for our next NewsWatch for pictures of our award recipients!

### CNAS 2004 2nd Annual Faculty Emeritus Dinner

The College of Natural and Applied Sciences will be holding their 2nd annual Faculty Emeritus Dinner, on Thursday, October 21st, immediately preceding the Convocation. This year this festivity has been tied to our Homecoming events in anticipation that those returning for Homecoming would be able to attend. Watch for our next NewsWatch for pictures of our Emeritus Dinner festivities!

### 2004 SMS HOMECOMING

**2004 SMS Homecoming** weekend scheduled for Friday and Saturday, **October 22 & 23** promises to be one-of-a-kind as SMS celebrates **100 Years of Magical Milestones**. Many centennial celebrations are scheduled throughout the year, and Homecoming is bound to be the cornerstone event that encourages former students to come home to SMS. All of the traditional events will take place in centennial fashion, including class reunions, the All-Alumni Homecoming Dinner and Awards Presentation, king and queen elections, pep rally, 5k Run, parade, Bearfest Village pre-game tailgate party, football game, and the Fifth Quarter Event. Hope to see you there!

### Chemistry Department Open House

Saturday, October 23, 9:30 a.m. - 11:30 a.m., Temple Hall, 4th Floor. All chemistry and science alumni are invited to tour the new labs.

### Homecoming Dinner & Awards Ceremony

**Friday, October 22, 6:00 p.m.,  
University Plaza Hotel**

Plan to attend this dazzling celebration to kickoff the Centennial Homecoming. We'll tip our hats to the award recipients, and enjoyable entertainment will captivate the audience! Program highlights will include presentation of the Award of Appreciation, Lifetime Achievement Award, Outstanding Young Alumni Award and Outstanding Alumni Award. Highlights will include an SMS historical photo exhibit and entertainment by SMS students. Tickets are \$24.00 per person and reservations are requested. To RSVP, contact the SMSU Alumni Association at 417-836-5654 or [alumni@smsu.edu](mailto:alumni@smsu.edu).

## MAPPING THE PAST GIS DAY 2004 WEDNESDAY, NOVEMBER 17, 2004

10:00 a.m. - 4:00 p.m.

This Centennial event, sponsored by the [College of Natural and Applied Sciences](#), celebrates the SMSU anniversary by using geospatial technologies to map the campus during the last 100 years. A virtual arboretum has also been established and **100 Centennial Trees** representing the species diversity on SMSU campus have been marked with plaques donated by the 2004 Graduating class.

Demonstration of the application of Geographic Information Systems (GIS), and Global Positioning Systems (GPS) to locate the 100 trees will be given. Campus tours of the **100 Centennial Trees** will also be conducted. Come and learn more about geospatial technologies, SMSU arboretum, explore the virtual campus map, and [get your free map](#) of the SMSU Centennial Trees.

All are welcomed, the event is FREE in Temple Hall 307.

For more information contact: L. Monika Moskal, Assistant Professor, at [MonikaMoskal@smsu.edu](mailto:MonikaMoskal@smsu.edu) or (417) 836-4273.

### BearFest Village

**Saturday, October 23, 9:00 a.m. - 1:30 p.m., Lot #24, south of Plaster Sports Complex, adjacent to Grand Street**  
This giant tailgate party is "The Place" to meet your SMS friends during Homecoming weekend. Food, fun, games and entertainment provide the perfect setting to be immersed in Bear Pride!

### Homecoming Football Game SMS vs. Southern Illinois University

**Saturday, October 23, 1:30 p.m., Plaster Sports Complex**  
Fascinating gridiron action is sure to excite the crowd. Halftime entertainment will feature an electrifying performance by the Pride Band. Reserved seat tickets \$11 and \$12/General Admission \$9.

### CNAS Hospitality Tent Saturday, October 23, 11:00 a.m. - 1:30 p.m. BearFest Village

Register for door prizes. All alumni and friends are invited to join current and retired faculty, administrators and staff for great food, fun, fellowship and campus updates. CNAS departments include: Agriculture; Biology; Chemistry; Computer Science; Consumer & Family Studies; Fruit Science; Geography, Geology & Planning; Mathematics; and Physics, Astronomy & Materials Science. No cost and RSVP not required. For information, contact the CNAS office at 417-836-5249, any CNAS department, or [faithgiedd@smsu.edu](mailto:faithgiedd@smsu.edu).

## SMSU STUDENTS EXCITED WITH ICE AGE BISON BONE DISCOVERY AT BLACKWATER DRAW



Burl Self, Heidi Fuller, Kim Hardin, Sarah Ice, Marcus Heilman, Cinte Falcon, Randy Falcon, Robert Higginbottom and Michael Weber.

Everyone wanted to hold it, and it was with good reason. The find of the molar tooth of a 12,000 to 20,000 year old Ice Age Bison (*Bison antiquus*) is something to be excited about. Moments before the tooth was found, the keen eyes of Burl Self, professor in the department of Geography, Geology, and Planning (GGP), at Southwest Missouri State University (SMSU), observed a strange looking protrusion in the embankment a few paces west of trail marker #16 at the Blackwater Draw Locality #1, in New Mexico. The object was described as a bone fragment belonging to the Ice Age Bison. Further down the path Johnny "JCee" Coomansingh, geography lecturer in the GGP department, stumbled upon the prized tooth.

According to the tour guide, Heidi Fuller, archaeologist and graduate student attached to the Eastern New Mexico University (ENMU), these items (the molar tooth, bone fragments, and tooth enamel) were probably dislodged from the embankment because of the heavy rains which fell in the area over the last two weeks. She also added that it is quite possible that

this site could have been used as a kind of dumpsite for broken bones after animals were consumed. This find led to the discovery of a new site destined for archaeological excavation in Blackwater Draw Locality #1. In light of this, professor Self asked that the site be named "Site 305" in honor of the class which discovered these ancient bits and pieces of the Ice Age Bison. Professor Self teaches the course GRY 305-The Geography of Prehistoric Native Americans at SMSU. The Blackwater Draw Locality #1 in New Mexico was one of the areas chosen for visitation as part of the field work conducted for this summer course.

With regard to the study of prehistoric Native Americans, professor Self pointed out that the Blackwater Draw site is probably the most important archaeological site in North America. This site is "living" proof to the earliest Paleo-Indian cultures in North America. In respect of this information, a brochure published by the ENMU archaeological department informed: "in research, Blackwater Draw Locality #1 is a reference point for Paleo-Indian studies all over the world." The significance of Blackwater Locality #1 lies in the fact that it is "The Clovis Type Site," for the oldest accepted culture in the world. There is evidence at this site for "fluted points" (A New World invention), stone and bone weapons, as well as tools, and implements used for processing food, and other items necessary for the survival of the peoples of this era. The brochure also added:

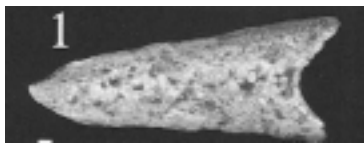
*These implements are in association with extinct Pleistocene megafauna such as mammoth columbi, ancient straight horned bison, horse, and large turtles. Other large Pleistocene age animals that visited the site for food and water were tapir, camel, four-pronged antelope, llama, deer, elk, dire wolf, ground sloth, short-faced bear, saber-toothed cat, coyote, armadillo, muskrat and peccary (wild pig). In addition, a shovel toothed mastodon or amebelodon of the Pleistocene age was found on the gravels.*

At the Blackwater Draw Locality #1 there is evidence also of the oldest hand-dug wells in North America. The site contains the earliest water control system in the New World, with at least one Clovis age, and 19 archaic age wells dug to reach the lowered water table. These wells serve as evidence with regard to the interpretation of the geography during that era, and in particular climatic changes.

For people interested in visiting this unique and important national landmark the Blackwater Draw Locality #1 is located on NM Highway 467, five miles north of Portales. For specific directions and information you may call 505-356-5235 (site), 505-562-2202 (museum), or 505-562-2254 (director).



## NEW FOSSIL NAMED AFTER SMS GEOLOGY PROFESSOR



Dr. James F. Miller, Professor of Geology, received an unusual honor this summer when a new fossil was named in his honor. The fossil, a new genus and new species, was named *Eukteanochiton milleri* in the July issue of the Journal of Paleontology by two paleontologists at University of California-Los Angeles. The first author of the publication, Mike Vendrasco, was a graduate student at UCLA in 1995 when Miller took him to some localities in western Utah where he had found the fossil chitons during 30 years of research in the area. Vendrasco collected the specimens for part of his Ph.D. research, and the published article was written jointly with his graduate advisor, Dr. Bruce Runnegar.

Chitons are a class of the phylum Mollusca that often crawl over rocky areas near ocean shores. The new species is about 500 million years old, making it one of the oldest fossil chitons. Miller's research on fossils involves a completely different group named conodonts, which are very primitive, microscopic vertebrates. Miller has named several new genera and species of fossils after other paleontologists, but this is the first named after him. Miller joked, "I assumed that after 39 years of research, someone might name a conodont after me. Instead, it was a chiton, and I was honored for the simple act of showing a student where he could collect material for his doctoral research. I don't have my own graduate students to work with, but I enjoy helping students from other universities by showing them things that I found during my own studies."

Front Row Left to Right: Gene Potter, Justin Wallace, Alex Song, Anne Marie Mosher, Dr. Yungchen Cheng, Patti Blanton. Second Row L to R: Eric Nieters, Gerardo Flores, Jason Wu, Sean Garton, Taige Hou, Nate Ince. Third Row L to R: Charles Tomlinson, Luyi Zhao, Andrew Chang, Mingxun Wang, Matt Ince. Last Row L to R: Tim Coalson, Daniel Marincel, Joseph Marincel, Nick Little, Mario DiDonna.

## 2nd ANNUAL CHEMISTRY RECOGNITION BANQUET

The 2<sup>nd</sup> Annual Chemistry Recognition Banquet was held on April 19, 2004. Approximately 22 students received awards and scholarships. In addition to faculty, staff, students and their families, also present at the banquet were members of the Chemistry Board of Advisors. The Outstanding Senior for the year was Matthew Messick.



Pictured above right: back row: Crystal Wood, David Dupy. Third row: Sheena Walters, Jeff Pavlik, Matt Markum, Katie Kupfer, Toby Long, Garrett Prevo Second row: Mary Krause, Travis Owen, Monica Kinde, Sean Brooks, Jessica Mellor, Emilee Colbert First row: James Hastings, Jennifer Snyder, Mary Hansen, Matthew Messick, Michael Sallee, Alicia Pfahl.

## ARML TEAM COMPETES IN IOWA

The Missouri State Math Team, pictured below, took second place in the 28<sup>th</sup> Annual American Regions Mathematics League Tournament at the University of Iowa June 4<sup>th</sup> & 5<sup>th</sup>, 2004, and placed 7<sup>th</sup> nationally in Division A. The team is a joint effort of the two Missouri practice sites; one in St. Louis and the southwest practice site on the SMSU campus. Dr. Yungchen Cheng, Mathematics Department Head, is coach for the southwest site. The teams were participating simultaneously at two additional sites: Penn State University and San Jose State University.



## GRY 497: Denmark Field Course: Sustainable Communities

Pictured below left to right: Kristina Merrick, Sherry Thurston, Kelley Stewart, Heather Clark, Jennifer Pope, Rachael Sackreiter, Bridget Turner, and Nikki Allen and Dimitri Ioannides



During the summer of 2004 (May 15 – June 3), Dr. Dimitri Ioannides (Geography, Geology, Planning) led a group of eight SMS students on a field course in Denmark. The stu-

dents were hosted by the Center for Regional and Tourism Research in Nexø, located on the island of Bornholm (the easternmost county in Denmark). The principle purpose of the course was to study the steps undertaken in Denmark to encourage a more sustainable form of living (including the use of alternative energy sources, alternative transportation practices, and green building practices). In addition to undertaking a number of field-related exercises, students had the opportunity to listen to a number of prominent speakers who spoke about various topics relating to Denmark, the European Union, and the need for sustainable development. During the last five days of their stay in Denmark, students also had the opportunity to visit Copenhagen and the Swedish city of Malmö.



Left to right: Dimitri, Heather, Sherry, Kelley, Kristina, Jennifer, Bridget, Rachael, and Nikki.

## ANOTHER SUCCESSFUL MATH INSTITUTE BIGGEST EVER!

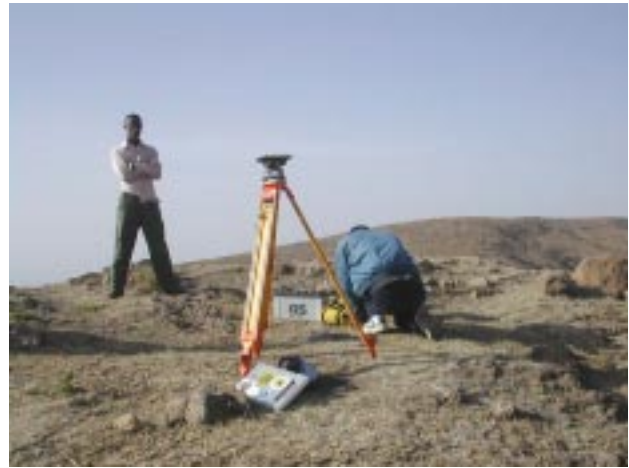
Once again this past summer, the Math Department (teaming with Continuing Education's Camp Bear program) sponsored and ran a Math Summer Institute for Middle School students.

Beginning on Monday, July 12th, twenty-one middle school students from around the state arrived on campus, and spent a week tackling problems, exploring mathematical games, puzzles and challenges, and of course, learning new mathematical concepts and curriculum topics.

Dr. Larry Campbell, Institute Director, was particularly pleased with the results of the program. "This was the biggest Institute we've had so far", he commented, and then added, smiling, "of course working with that many middle school students for 8 hours a day for a week can certainly remind you that you're getting older!"

If you would like to know more about the Institute and/or help contribute to the success of next year's programs, contact Dr. Cheng or Dr. Campbell in the Math Department.

## KEVIN MICKUS TRAVELS TO ETHIOPIA



Pictured above left: An Ethiopian teenager hired to guard the instruments used for research. Above right: Ketsela Tadesse of Ethiopia, (a PhD student at the University of Texas at El Paso), taking a GPS reading in the Ethiopian Rift.

Dr. Kevin Mickus, (Geography, Geology, Planning) spent three weeks in Ethiopia this past summer taking part in the GPS survey which is part of a National Science Foundation project that includes four US universities and four universities from the UK. Here they studied the crustal structure of the East African Rift System in Ethiopia. During these three weeks Dr. Mickus collected the GPS data along the rift's axis and presented two papers on results of surveys from the Summer 2003 to an international conference on the East African Rift System in Addis Ababa.

The GPS data (which took 0.5 to 4 hours to collect at each station) were used to determine the elevation to within 30 cm and were used to determine the earth's gravity field at each station. The gravity field was used to determine rock variations beneath the earth's surface.

## WHERE HAVE THOSE BIOLOGY MASTER'S DEGREE GRADUATES GONE?

A graduate degree opens many new doors. By providing the time for specialized coursework, a Master's Degree in Biology provides a deeper understanding of the living world. The thesis option provides the chance for doing research under the close supervision of a faculty expert. Besides gaining skills in doing specific methods, this close mentorship also allows a greater appreciation for the process of doing scientific investigations. Biologists are employed in a wide variety of fields, ranging from growing plants to running quality control tests. The undergraduate degree provides the competence for technical level work. The Master's degree provides the background for jobs with more responsibility. A brief listing of careers taken by SMSU Biology Master's Degree graduates are shown in the table below.

### Employment of MS-level Biologists

Animal keeper	Research Scientist (federal government agency)
Conservation Biologist (federal agency)	Research Specialist (grant funded)
Environmental Scientist (private company)	Research Technician (grant funded)
Environmental Specialist (state agency)	Research Technician (state agency)
Fisheries Biologist (state agency)	Research Technician, biomedical (private company)
Forester (state agency)	Teaching (college level)
Lab Technician, forensics (state lab)	Teaching (high school science)
Park Naturalist (state agency)	Teaching Laboratory Supervisor (college level)
Physician	Writer, environmental (freelance )

To do more-advanced work in Biology may require a doctorate degree. For instance, employment as a college professor or as a laboratory director typically requires the Ph.D. degree. The extensive lab-based coursework and research experience from doing a Master's Degree in Biology at SMSU provides excellent training for entering a doctoral program. Quite a few of our former Master's students have gone on for the Ph.D. degree. A selection of students from different faculty supervisors is listed below. These students are described further in a link from the Biology web page (<http://biology.smsu.edu/>).

### SMSU Master's students who went for a Ph.D. degree

Student	Subdiscipline	Faculty supervisor
Kyle Barrett	physiological ecology	Alexander Wait
April Brennan	herpetology	Brian Greene
Jennifer Cacka Graham	freshwater ecology	John Havel
Wyatt Hoback	physiological ecology	Chris Barnhart
Scott Kelly	physiological ecology	Tom Tomasi
Jeff Kimmons	herpetology	Don Moll
Jennifer Moody-Weis	plant ecology	John Heywood
Kevin Murray	mammalogy	Lynn Robbins
Ethan Prosen	behavioral ecology	Alicia Mathis
Melissa Remley	plant physiology	Frank Einhellig
Stephanie Smith	microbiology	Jack Steiert

A complete listing of Master's Degree graduates who completed a thesis from the Biology Department can be found by doing a query at the Graduate College web site (<http://graduate.smsu.edu>), selecting the "thesis database" tab along the left margin, and typing "biology" into the department field. A recent search indicated about 300 Biology theses (listed on 60 pages), which represents over 21% of all Master's theses at SMSU.

John Havel (Professor of Biology)

## DR. JAMES F. MOORE JR. RETIRES

Dr. James F. Moore Jr., pictured below, the sixth Director of the State Fruit Experiment Station, retired on June 30, 2004, after 29 years of service. A native of Kentucky, Dr. Moore served in the army before earning a Bachelor of Science degree from Western Kentucky State College in 1965. He earned a Master of Science degree from Clemson University in 1969, after which he worked as a plant pathologist for the Guam Department of Agriculture. Dr. Moore earned a Doctorate degree from the University of Arizona in 1976.



Dr. Moore joined the State Fruit Experiment Station as Research Plant Pathologist in 1975, was appointed Associate Director for research and advisory programs in 1980 and Director of the station in 1984. He was instrumental in the transfer of the Missouri Grape and Wine Advisory Program from the University of Missouri-Columbia to Southwest Missouri State University in 1985. Dr. Moore became head of the Department of Fruit Science when it was established in 1994.

The employees, administrators, and friends of the State Fruit Experiment Station held a retirement picnic in honor of Dr. James Moore on July 13th. A delicious barbeque lunch was followed by speeches in honor of Dr. Moore given by Dr. Laszlo Kovacs, Dr. Martin Kaps and Mr. Patrick Byers of the State Fruit Experiment Station, Dr. John Keiser - President of Southwest Missouri State University, Dean Larry Banks of the College of Natural and Applied Science, Dr. Carol Silvey of West Plains, and former State Representative Mary Lou Sallee. Everyone enjoyed the music provided by the Wright County Bluegrass Band for the remainder of the celebration.

Throughout his career, Dr. James Moore Jr. has been a strong supporter of the Missouri fruit industry securing funding for research and advisement in excess of \$2.5 million dollars. His guidance and resolve has contributed greatly to the body of knowledge in the area of fruit science as well as to the development of the State Fruit Experiment Station. Jim plans to move back to Kentucky where he and his wife, Donna, will plant a peach orchard. We all wish him many fulfilling and fun years ahead.

## ANNUAL AGRICULTURE PICNIC HELD AT DARR CENTER

### Alpha Gamma Rho Fraternity Honors Brothers Of The Century

Dr Anson Elliott, Head of the Department of Agriculture and advisor of the SMSU Alpha Gamma Rho fraternity, was recently honored with the Brother of the Century Award. This year's convention celebrated the first 100 years for the fraternity. Alpha Gamma Rho is the national professional/social agricultural fraternity with more than 59,000 members nationwide and chapters on 65 campuses in the United States. Less than 2% of the total membership was selected to be honored as the "best of the best" in receiving this award. Dr. Elliott's recognition was for his contribution to agriculture and the development of young people.

One additional piece of the goal for the William H. Darr Agricultural Center has now been completed. It is a multipurpose barn that will accommodate many livestock functions and support other activities that will be hosted in the larger enclosed arena that is scheduled for renovation and expansion with state appropriated funds obtained during this past legislative session. Future plans include a stalling barn / research facility and a learning center that can accommodate many educational and outreach programs as SMS pursues many agricultural endeavors that serve both the rural and metropolitan communities. Pictured below is the newly completed open sided multipurpose barn which was taken at the Annual Agriculture Picnic in September.



## 2004 FASHION MERCHANDISING AND DESIGN FASHION SHOW Hollywood 2004

The red carpet was rolled out on Sunday April 25 for the annual Fashion Merchandising and Design Fashion Show...Hollywood 2004. The Fashion Production (CTM 384) class under Mrs. Jenifer Roberts' supervision out-did them selves this year with a record audience of over 700 attendees.

Hollywood 2004 featured movie slides to showcase over 100 original designs of students in all design classes. Students in Senior Collections (CTM 580) under the direction of Mrs. Sandra Bailey had collections that would rival those of the best design houses.

Before the fashion show guests shopped Rodeo Drive; a boutique containing original creations of fashion students. Using a "Silent Auction" approach guests could bid on original design garments, stylish accessories, "A Day at the Spa," "A Quiet Dinner for Two," as well as other gifts donated by local businesses.

If you missed the fashion show this spring, mark your calendars for April 23, 2005 "Window Shopping" at the Oasis Convention Center on North Glenstone at 6:00 PM.



From left to right: Coleah Hamilton, Geri Russel, Erin Clancy, Sara Barnes, Sarah Horton, Amber Furr, Nikki Phillips, and Erin Newfeld.

## FASHION CAREER SEMINARS ENHANCE STUDENT OPPORTUNITIES

The Fashion Group International (FGI), a global non-profit association of professionals representing apparel, accessories, and the home/commercial fur-

major cities this year. Faculty sponsors include Mrs. Jenifer Roberts, Mrs. Sandra Bailey, Dr. Michele Granger, and Dr. Debra McDowell.

The first career seminar will be hosted by the Kansas City FGI at Johnson County Community College on October 29. Friday, November 12, students will compete in design and retail merchandising competitions at the Chicago Apparel Market Center. The third competition that provides student scholarships for apparel designs and fashion merchandising endeavors will be located at the Dallas Apparel Market Center on April 8.

All career seminars provide students the opportunity to network with professionals in the fashion industry, interview for internships and jobs, as well as earn scholarship monies for their original garments and design boards. Last year alone, Allyson Thornton won best garment design in her division at both the Kansas City and Dallas FGI Seminars. Courtney Rissler, pictured left, won top honors for her design concept board in Kansas City. SMSU fashion stu-

dents over the past ten years have always had their garments accepted for the runway shows at the seminars and have won major scholarship monies for their apparel designs and design boards.

## HOSPITALITY AND RESTAURANT ADMINISTRATION ACCREDITED THROUGH SUMMER OF 2011

The Hospitality and Restaurant Administration Program has been accredited through the summer of 2011 by the Accreditation Commission for Programs in Hospitality Administration. The faculty spent last year preparing the self-study document. The program was visited by a team of professional colleagues who conducted a rigorous review of the program during the month of April 2004. Based on the program's self study, the visiting team report and a thorough review by the Commission members, official accreditation was given to the program at the August 1, 2004 meeting of the Commission. The program was initially accredited in 1994.



nishings industries, sponsors educational programs for university students each year. Fashion merchandising and design/product development students in the Clothing, Textiles & Merchandising (CTM) Program will be traveling with faculty to be a part of career seminars and design competitions in three

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\_\_\_\_\_
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- 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: \_\_\_\_\_

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### Whats Coming Up...

October 22 & 23	Homecoming
November 17	Mapping the Past - GIS Day 2004 All are welcomed, the event is FREE in Temple Hall 307. For more information contact: L.Monika Moskal, Assistant Professor, at <a href="mailto:MonikaMoskal@smsu.edu">MonikaMoskal@smsu.edu</a> or (417) 836-4273.
November 24	Thanksgiving Holiday - No classes - Offices open
November 25	Thanksgiving Day - No classes - Offices closed
November 26	Thanksgiving Holiday - No classes - Offices closed
December 9	Last Day of Fall Classes
December 10	Study Day - No classes - Offices open
December 10 - 16	Final Exam Period
December 16	Fall Senior Banquet
December 17	Fall 2004 Commencement
December 24 - January 2	Holiday Break

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 accordance 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 Estergard, Equal Opportunity Officer, Office of Human Resources, Carrington Hall 128, 901 South National, Springfield, Missouri 65804, (417)836-4252.