BESS NEWS
BIOSYSTEMS * ENGINEERING * SOIL SCIENCE

Vol. 4 No. 1
October 19, 2011
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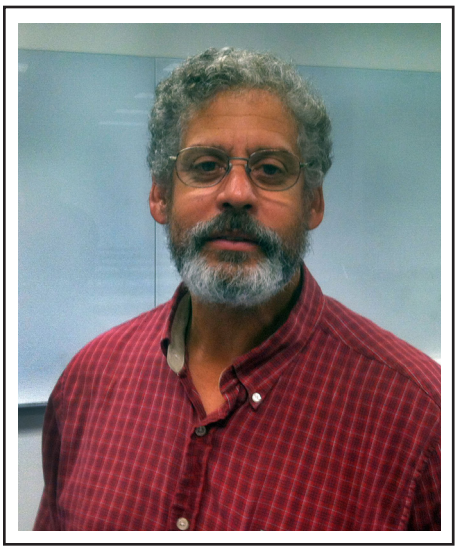
Dr. Hart, Dr. Yoder receive top awards

UT Institute of Agriculture honors BESS professors



Dr. Willie Hart

Dr. Daniel Yoder

Two members of the Biosystems Engineering and Soil Science faculty have been recognized again for their contributions to the UT Institute of Agriculture and College of Agriculture Sciences and Natural Resources.

At the CASNR Annual Awards ceremony in April, Dr. Willie Hart received the W.F. & Golda Moss Outstanding Teacher Award (greater than ten years experience) in recognition of his excellence in teaching.

This was followed by the UTIA awards ceremony in August, where Hart received the Webster Pendergrass Outstanding Service Award. This award was presented in memory of Webster Pendergrass, former Vice President of Agriculture. It recognizes an instructing, research or extension faculty member who has most contributed to the fulfillment of the Institute's goals and objectives.

Dr. Daniel Yoder, was recognized at the UTIA Awards ceremony with the B. Ray Thompson, Sr. Outstanding Faculty Performance Award.

This award is made possible by earnings from the Thompson Faculty Endowment and is presented annually to faculty in the Institute who have distinguished themselves by their exceptional performance.

The B. Ray Thompson, Sr. award rotates among the four divisions within the Institute of Agriculture: CASNR, the UT College of Veterinary Medicine, the UT agricultural experiment station and UT extension.

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For Important News on:

BESS

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BESS EVENTS

BIOSYSTEMS * ENGINEERING * SOIL SCIENCE

Dr. Eash to speak at Mic/Nite

Biosystems Engineering and Soil Science's Dr. Neal S. Eash will speak at this fall's Mic/Nite hosted by the office of the provost.

Faculty presentations start at 7:30 p.m. and will conclude around 10 p.m. The Fall 2011 Mic/Nite will take place Wednesday, October 19.

Eash will discuss how agricultural soil management impacts carbon dioxide emissions and can help mitigate the effects of climate change. Limiting soil disturbance during food production can increase soil carbon levels over the long-term (decades) due to short-term (i.e., seasonal) sequestration of carbon dioxide.

In order to determine the rate of carbon dioxide sequestration, micrometeorological stations were set up in two adjacent fields.

These stations continuously record the environmental components necessary to complete the Bowen's ratio energy balance equations for the fields, both of which are cropped in maize-bean rotations, one under no-till management and the other plowed.

Other benefits of soil management include improved food security.

For more information about Mic/Nite click here.

More photos of Eash's trip can be seen on page four of the news letter.

THE UNIVERSITY of TENNESSEE UT INSTITUTE of AGRICULTURE

UPCOMMING EVENTS

CASNR Halloween Mixer
• 10/18 6:00 - 9:00 PM in the UT Gardens

UT Farmer's Market
• 10/19 4:00 - 7:00 PM in the UT Gardens

Provost's Mic/Nite
• 10/19 7:30 - 10:00 PM at the Valarium

UT Farmer's Market
• 10/26 4:00 - 7:00 PM in the UT Gardens

Udall Scholarship Information Meeting
• 10/27 4:00 - 5:00 PM in Melrose F301

UT's Engineer's Day
• 10/27 10:30 AM - 2:00 PM

UT's Ag Day
• 10/28 noon-11:59 PM at the Ag Campus

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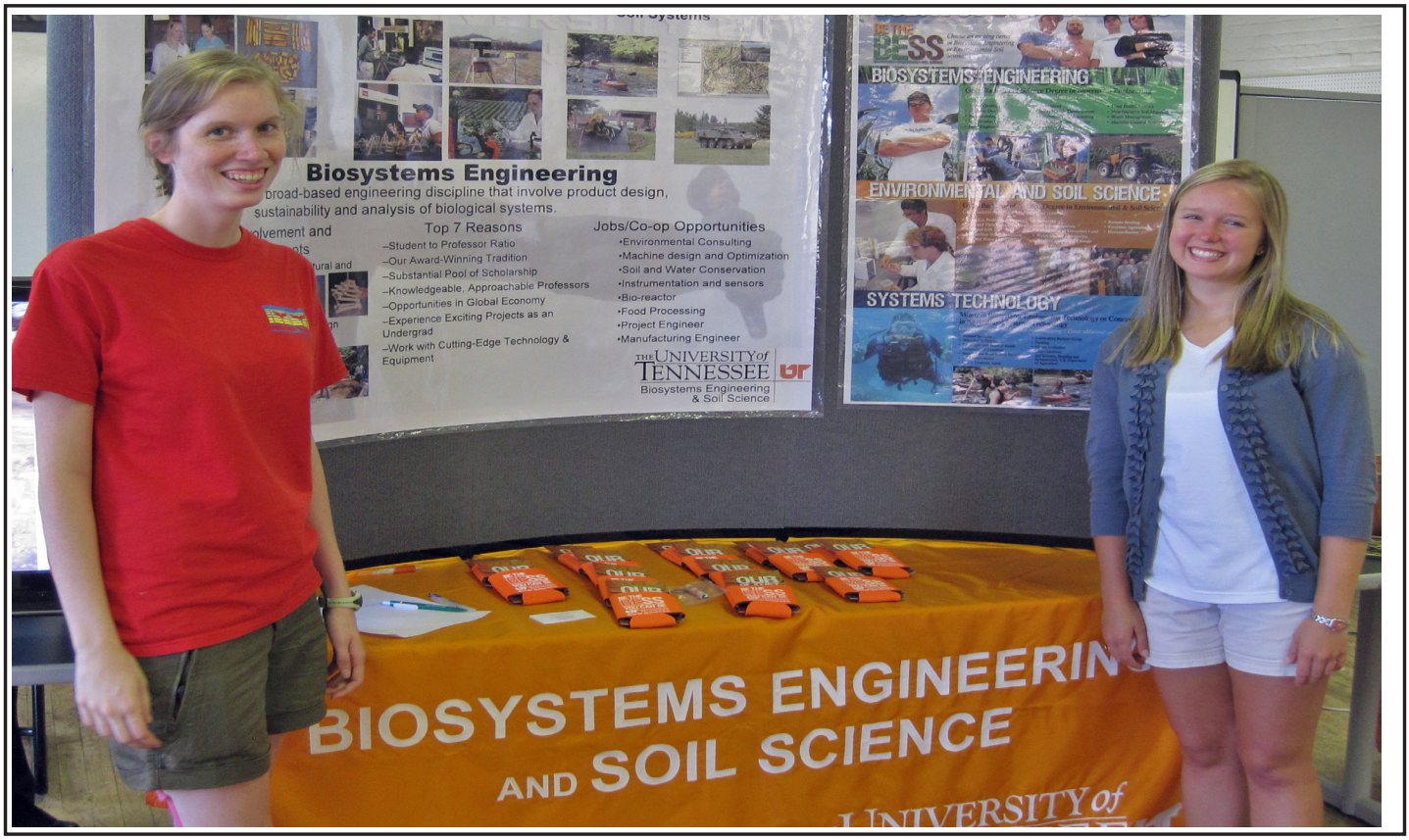
Engineering Fundamentals recruitment brings new students to BESS



Sophomores Ashley Smith and Alysse Ness talk to Engineering Fundamentals students about biosystems engineering.

Engineering Fundamentals hosts a recruitment day each semester. On that day, each engineering department brings students and professors to Estabrook Hall to encourage students to join their college.

Biosystems engineering and soil science representatives set up early in the morning and talked to waves of EF students about current research in the college and why students should join BESS.

Sophomore Ashley Smith said, “EF recruitment day is a really important event. It gives us, as students, a way to bring more people to our department by explaining what biosystems means to us.”

Dr. Paul Ayers spearheaded the recruitment and brought his kayaks and snorkel equipment to spark interest in new students.

More than 500 new students are enrolled in EF for 2011. Each of those students will have to choose a major to join after he/she completes EF 151 and 152.

EF departmental recruitment day is one of the biggest contributing factors in bringing students to biosystems engineering at the University of Tennessee. This year more than 50 students signed up to find out more about BESS.

Dr. Ayers talks to prospective students about the benefits of joining the biosystems engineering college.

Professor takes education abroad to Lesotho, Africa

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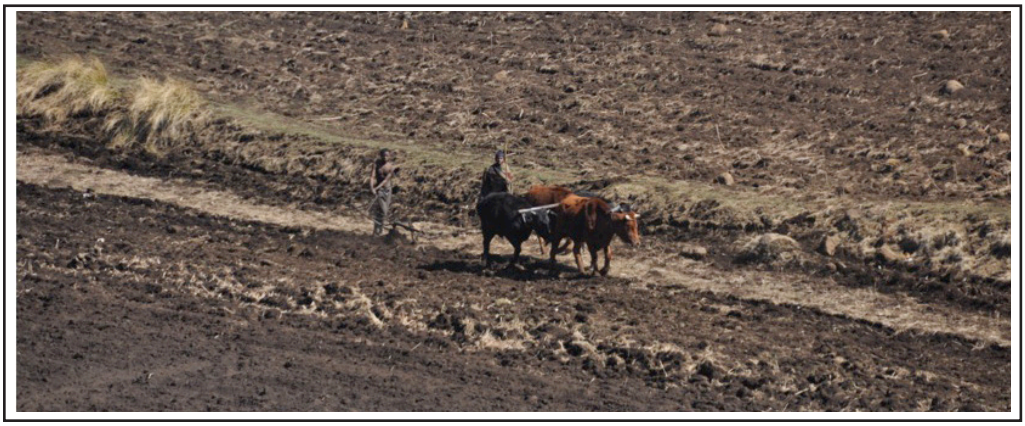
Above: UT extension and collaborators lead a field tour at our Lesotho research site.

Above: Dr. Eash's Lesotho collaborator, Dr. Marake, examining our maize crop.

Above: Dr. Eash examines a sensor used to monitor crops in Lesotho.



Left: Multiple tillage passes are common in Lesotho and result in high rates of both soil erosion and gully formation.

THE UNIVERSITY of TENNESSEE INSTITUTE of AGRICULTURE

Biosystems Engineering ⊙ Soil Science ⊙ Biosystems Engineering Technology ⊙ Environmental

Funding Awards For Fall 2011

	PI-Last Name	PI-First Name	Co-PI Last Name	Co-PI First Name	Department	Amount
June Awards 2011						
	Ye	Xiaofei Philip			BESS	$105,324
	Tyler	Donald			BESS	$87,440
	Prather	Timothy			BESS	$180,000
	Burden	Ray			Extension Admin.	$59,150
			Prather	Timothy	BESS	
			Keel	Martha	Family and Consumer Science	
			Main	Christopher	Plant Sciences	
July Awards FY 2011						
	Hawkins	Shawn	Buchanan	John	BESS	$9,588
	Jardine	Philip			BESS	$29,764
	Freeland	Robert			BESS	$3,500
	Lead UTK		Ludwig	Andrea	BESS	$14,479
			Yoder	Daniel	BESS	
	Wilkerson	John			BESS	$20,000
	Jardine	Phil			BESS	$1,185,160
September Awards FY2011						
	Gwinn	Kimberly			Entomology and Plant Pathology	$267,379
			Logan	Joanne	BESS	
			Beyl	Caula	CASNR Administration	
	Yin	Frank	Main	Christopher	Plant Sciences	$65,087
			Larson	James	Agriculture and Resource Economics	
			Savoy	Hugh	BESS	
			Tyler	Donald	BESS	
			Buscher-mohle	Michael	BESS	
	Rials	Timothy	Bozell	Joseph	Center for Renewable Carbon	$5,850,000
			English	Burton	Agriculture and Resource Economics	
			Jackson	Samuel	Center for Renewable Carbon	
			Labbe	Nicole	Center for Renewable Carbon	
			Stewart	Neal	Plant Sciences	
			Tyler	Donald	BESS	
			Young	Timothy	Center for Renewable Carbon	
			Goddard	Ken	Eastern Region	
			Walton	Jonathan	Eastern Region	
			Windham	Mark	Entomology and Plant Pathology	
	LEAD UTK		Drumm	Eric	BESS	$98,912
	Yoder	Daniel			BESS	$14,995

Funding Opportunity

NSF 12-501 Long Term Research in Environmental Biology	(LTREB)
Letter of Intent to Agency	N/A
Proposal to Sponsored Programs	1/3/2012
Pre-proposal to Agency	1/10/2012
Estimated Award Amount	$3M
Anticipated No. of Awards	6-8
Cost Share	No
Link to Opportunity	Here

The National Science Foundation seeks to stimulate and enhance long-term perspectives on problems in organismal and environmental biology. Long-term environmental research is funded through two NSF programs – Long-term Ecological Research (LTER) and LTREB. The two programs are different. LTER projects are funded in response to calls for specific proposals, are evaluated by a special panel, and are characterized by multiple investigators conducting multi-disciplinary investigations at large temporal and spatial scales. In contrast, LTREB projects are submitted to annual target dates, evaluated by appropriate programmatic panels (Evolutionary Processes, Population and Community Ecology, Ecosystem Studies, Behavioral Systems, Physiological and Structural Systems) and are initiated by one or a few investigators. Examples of current LTREB awards can be viewed at http://www.nsf.gov/awardsearch/ by including "LTREB" in a title search.

The LTREB Program intends to support decadal projects. Funding for an initial, 5-year period requires submission of a preliminary proposal and, if invited, submission of a full 15-page proposal following the guidelines in the Grant Proposal Guide. A cogent conceptual framework for a decadal research plan is a required and a critical part of the initial proposal. This plan must clearly articulate important questions that cannot be answered with the data in hand, but that could be answered if ten additional years of data were collected. Proposals for renewal of support for a second 5-year period are limited to 8 pages in length and will be evaluated using the standard NSF Merit Review Criteria and three additional criteria: 1) progress made toward long-term goals during the initial 5-year award, 2) a brief description of planned research activities and 3) evidence that previous data are available to the broader research community. Preliminary proposals are NOT required for LTREB renewals, and full LTREB renewal proposals will be accepted annually for the August 1 deadline.

Projects submitted for LTREB funding must address questions that require long-term data collection to be answered. Investigators must present a conceptual framework that spans at least ten years.

For detailed information about this opportunity please see the full solicitation. Please contact Sponsored Programs (4-3466) with questions regarding proposal submission requirements.

If you have any questions regarding this announcement, please contact:

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UT Knoxville Office of Research

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