

# ACTION IN AGROFORESTRY

monthly newsletter of The Center for Agroforestry at the University of Missouri

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Michael Gold and Michelle Hall, editors

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## 2nd Annual Agroforestry Symposium to be Jan. 12 at MU

Experts from across the country will discuss the role of bioenergy crops for meeting renewable energy goals at The Center for Agroforestry at the University of Missouri's Second Annual Agroforestry Symposium, Wednesday, Jan. 12, 2011.

The program, "Meeting Renewable Energy Goals: Role of Bioenergy Crops," features a keynote address from Steve Flick, Chair of the Board of Directors of Show Me Energy Cooperative, Centerview, Mo. Flick will present "Real Green from Real Green."

The symposium begins at 9:30 a.m. in the Anheuser-Busch Natural Resources Building's Conservation Hall Auditorium, University of Missouri, and runs through 5:10 p.m. Lunch will be available for purchase at several locations on campus. A reception and poster session will follow the symposium.

The Energy Independence and Security Act mandates that annual biofuels production nearly triple from the current 12 billion to 36 billion gallons per year (BGY) by 2022, with 21 BGY coming from advanced biofuels. To achieve this goal, significant gaps must be addressed in all parts of the supply chain, said Dr. Shibu Jose, director, The Center for Agroforestry.

"As outlined in the President's Biofuels Interagency Working Group Report, a strategic approach is needed to ensure development of suitable energy crops, sustainable feedstock production systems, and infrastructure-compatible advanced biofuel production," he said. "The goal of this symposium is to share the current state of knowledge on producing and processing the most common bioenergy crops in the region."

Other symposium presenters include: Pete Nelson, Director, AgBioworks; Dr. Michael Blazier, Professor, Louisiana State University, and Dr. Hal Liechty, Professor, University of Arkansas at Monticello; Dr. William Rooney, Professor, Texas A&M University; Dr. Newell Kitchen, President, American Society of Agronomy, Soil Scientist, USDA-ARS at University of Missouri; Dr. Bill Berguson, Director, Hybrid Poplar Research Coop, University of Minnesota; Dr. Zakiya Leggett, Sustainability Scientist, Weyerhaeuser Company; and Dr. Hank Stelzer, Associate Professor, University of Missouri. The full schedule is available online at <http://www.centerforagroforestry.org/>

RSVP is requested. Please contact Julie Rhoads, [rhoadsj@missouri.edu](mailto:rhoadsj@missouri.edu), by Jan. 5 to reserve your spot. Please contact Shibu Jose, [joses@missouri.edu](mailto:joses@missouri.edu), with interest in exhibiting posters related to agroforestry and/or biomass studies.

### BORLAUG FELLOW SIDIBE VISITS UMCA

Dr. Daouda Sidibe of Mali's Institute for Rural Economic Development is visiting the University of Missouri and The Center for Agroforestry for 10 weeks this fall as part of the Norman Borlaug Fellowship Program sponsored by the USDA Foreign Agriculture Service.



Dr. Francisco Aguilar, Assistant Professor, Forestry, is serving as mentor to Sidibe, as part of the program. Sidibe holds a B.S. in Fisheries and Aquaculture (Institute PR de Katibougou), M.S. in Forestry (Wageningen Agricultural University, Netherlands), and a Ph.D. in Agroforestry (University of Wales).

He is making contact with experts at The Center and across the region to help with his work back in Mali,

which includes forestry extension; Sidibe also has toured HARC and attended the Missouri Chestnut Roast. His visit will last until Nov. 30.

"My goal is to collect as much information as possible; to create contacts with researchers in many fields to develop collaborations; to create networking between my Institute in Mali and the School of Natural Resources in Missouri; to acquire knowledge and experience in the area of natural resources management," he said. "Agroforestry is a science, so the techniques can be modified and adapted to many situations."

Norman E. Borlaug International Agricultural Science and Technology Fellowships help countries strengthen sustainable agricultural practices by providing scientific training and collaborative research opportunities to visiting researchers, policymakers and university faculty.

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## IMPACT

**Shibu Jose** gave a sub-plenary talk at the XXIII International Union of Forest Research Organizations World Congress on the future of North American agroforestry.

The Congress took place Aug. 23-28, in Seoul, Republic of Korea, and was themed “Forests for the Future: Sustaining Society and the Environment.” It drew more than 2,700 participants from 92 countries, the largest number of participants in the Congress’ history.

## RESEARCH

**UMCA** was well represented at the recent ASA, CSSA, and SSSA 2010 International Annual Meetings, Oct. 31-Nov. 3, Long Beach, Calif., “Green Revolution 2.0: Food+Energy and Environmental Security.”

**Ranjith Udawatta** organized and chaired the session on “Bio-energy, Agroforestry, and Environment” in the Soils and Environmental Quality section. The session comprised of 13 presentations, including the following by UMCA affiliates (speakers listed first): “Agroforestry and Ecosystem Services,” **Udawatta, Shibu Jose, and Stephen Anderson**; “Agroforestry and Grass Buffer Effects on Soil Quality Parameters for Grazed Pasture and Row Crop Systems,” **Bodh Paudel, Udawatta, Anderson, and Robert Kremer**; “Agroforestry and Grass Buffer for NPSR Reduction From Row Crop Watersheds,” **Udawatta and Harold Garrett**; “Apex Model Simulation of Runoff and Sediment Losses From Agroforestry Buffers for Watersheds Under Pasture Management,” **Sandeep Kumar, Anderson, Udawatta, and Ashish Mudgal**; and “Apex Model Simulation for Row Crop Watersheds with Agroforestry and Grass Buffers,” **Anoma Senaviratne, Udawatta, Anderson** and Claire Baffaut.

**Peter Motavalli** organized and chaired a session on “Global Food Security in a Changing Climate,” in the International

Agronomy section. Seven presentations were part of the session, including “Impacts of Climate Change on Soil Quality and Disease and Pest Incidence in Developing Countries,” **Motavalli** and K Garrett; and “Agroforestry Systems for Climate Change Mitigation, Food Security and Rural Prosperity,” **Jose**.

## OUTREACH

**Mike Gold** gave recent tours of HARC to the following groups:

Professor Sinsin Brice, the Vice Chancellor in charge of research, and Dr. Valentin Kindomihou, researcher, both of the University of Abomey-Calavi in Benin; and Roland Holou, Ph.D. candidate, Plant Sciences, MU, graduate of the University of Abomey-Calavi. Professor Sinsin was exploring the potential of developing formal research and education collaborations with MU including those in agroforestry.

Scientists visiting Iowa State University, including seven Indian foresters from the Karnataka State Forestry Department; a Ph.D. student in agroecology at Eurasian National University in Astana, Kazakhstan; and two Ugandans, who are recent graduates of the College of Agriculture at Makerere University (Kampala).

## KUDOS

Research by **Chung-Ho Lin** and colleagues in an interdisciplinary collaboration among UMCA, MU Department of Veterinary Pathobiology, Department of Biochemistry, Department of Engineering, MU Life Sciences Center, Department of Energy, and USDA-ARS, on novel biocatalysts to remediate the contamination of atrazine in groundwater and soils, was chosen as one of the six highlighted at the Seismic Data (Blitz) Event hosted by the MU Life Sciences Center this summer.

## COMING SOON...

- Nov. 19** UMCA Faculty/Staff meeting  
5 p.m., D. Rowe’s restaurant
- Jan. 12** 2nd Annual Agroforestry Symposium  
9:30 a.m.-5:10 p.m., Conservation Hall,  
ABNR Bldg., MU campus  
(See more details in article on front page.)
- Jan. 13** UMCA Annual Review  
Memorial Union, MU campus



**T**he 8th Annual Missouri Chestnut Roast was held Saturday, Oct. 16, at the Horticulture and Agroforestry Research Center, New Franklin. Beautiful weather meant a happy crowd! See [www.centerforagroforestry.org](http://www.centerforagroforestry.org) or our Facebook page

at <http://www.facebook.com/home.php?#!/pages/The-Center-for-Agroforestry/112389345482824> for photos and recipes from the event. HARC chestnuts also have been roasted over open fires this fall at the Santa Fe Trail Food and Wine Festival, Lexington, Mo., Sept. 25; at the MU Wellness Center Farmers’ Market, Columbia, Mo., Oct. 28; the Great River Road Chestnut Roast, Elsberry, Mo., Oct. 30; at the Columbia Farmers’ Market, Nov. 6 and 13; and one to come – check out the Living Windows Festival in downtown Columbia Friday, Dec. 3, from 6-8 p.m.



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**Shibu Jose, Ph.D., Director**

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