

# ACTION IN AGROFORESTRY

monthly newsletter of The Center for Agroforestry at the University of Missouri (UMCA)

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## Energy Department Announces Selections for U.S.-India Joint Clean Energy

Article adapted from Energy.gov and can be found online at <http://energy.gov/articles/energy-department-announces-selections-us-india-joint-clean-energy-research-and-development>

The U.S. Department of Energy announced the selections for three consortia that will make up the \$125 million U.S.-India Joint Clean Energy Research and Development Center (JCERDC). These consortia – led in the U.S. by the National Renewable Energy Laboratory (NREL), the University of Florida, and Lawrence Berkeley National Laboratory (LBNL) – will bring together experts from national laboratories, universities, and industry in both the U.S. and India. Consortia researchers will leverage their expertise and resources in solar technology, advanced biofuels, and building efficiency to unlock the huge potential of clean energy technologies that can reduce energy use, cut dependence on foreign oil, and accelerate the deployment of renewable energy sources.

“This innovative research program will help promote clean energy, create jobs, and open export opportunities for U.S. business,” said David Sandalow, Assistant Secretary for Policy and International Affairs. “By bringing some of our best scientific and technical minds together, we can strengthen both our great nations.”

The three lead U.S. institutions have partnered with three lead Indian institutions – the Indian Institute of Science-Bangalore, the Indian Institute of Chemical Technology-Hyderabad, and CEPT University-Ahmedabad.

As part of a planned five-year initiative, the Energy Department will make \$5 million available in fiscal year 2012. The Department plans to make additional requests to Congress for up to \$20 million over the next four years, subject to available appropriations, that will be used to support work conducted by U.S. institutions and individuals. The Indian Government also committed to funding \$25 million over five years that will be used to support work by Indian institutions and individuals. In addition, U.S. and Indian consortia members have pledged over \$75 million in matching funds, for a combined funding total of

more than \$125 million for joint research and development in solar energy, advanced biofuels, and building energy efficiency.

The Joint Clean Energy Research and Development Center is part of the U.S.-India Partnership to Advance Clean Energy. As two of the world’s largest economies, the United States and India have a special role to play in addressing global energy and environmental sustainability challenges.

President Obama and Prime Minister Singh launched the U.S.-India Partnership to Advance Clean Energy (PACE) in November 2009 to accelerate the transition to high performing, low emissions, and energy secure economies. The Joint Clean Energy Research and Development Center is included in the partnership’s Research and Development track (PACE-R). The Deployment track (PACE-D) includes a Clean Energy Finance Center, the public-private Energy Cooperation Program, and a range of bilateral cooperative activities. Since its inception, PACE has mobilized more than \$1 billion dollars towards clean energy projects, including smart grid development; energy efficiency in buildings, appliances, and industries; and a wide range of renewable energy technologies, including solar, wind, and advanced biofuels.

Details of the winning biofuels consortia are as follows - 2nd Generation Biofuels: The consortium will focus on development of sustainable advanced lignocellulosic biofuel systems.

The University of Florida will lead the U.S. team that includes **University of Missouri**; Virginia Tech; Montclair State University; Texas A&M University; Show Me Energy; and Green Technologies. The Indian Institute of Chemical Technology-Hyderabad will lead the Indian team that includes International Crops Research Institute for the Semi-Arid Tropics-Hyderabad; Directorate of Sorghum Research-Hyderabad; Jawaharlal Nehru Technological University-Hyderabad; Tamil Nadu Agricultural University; Rajamatha Vijayaraje Sindia Krishi Vishwa Vidyalay; Centre for Economic and Social Studies; Indian Institute of Technology-Delhi; Indian Institute of Technology-Chennai; Abellon Clean Energy.

### Shibu Jose Keynote Address at Silvopasture Congress

Dr. Shibu Jose recently delivered the keynote address at the 2nd National Congress of Silvopastoral Systems in Santiago Del Estero, Argentina, held May 9th-11th. His address, “Designing sustainable silvopastoral systems: from resource availability to management interventions,” kicked off a weekend of agroforestry and silvopasture collaboration and a variety of field tours. “A system like this is very promising in Argentina, since they’re such a large beef-producing country,” said Dr. Jose (pictured at right with Minister of Production and other distinguished guests of the conference).



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## Kudos

Forestry graduate student Christopher Bobryk presented his study, "Dynamics of Aboveground Forest Biomass within the Missouri River Corridor" as part of the 2012 U.S. chapter of the International Association of Landscape Ecology (US-IALE) conference that took place in early April. He also received the MSU-NASA Professional Development Award during the conference. Bobryk is advised by Dr. Hong He and Dr. Shibu Jose.

## Outreach

The Rural Missourian has published an article in their June 2012 issue profiling Terry Durham's efforts to establish elderberry crops in the Midwest and throughout the U.S. The article was published in print and online at <http://www.ruralmissouri.coop/digitalrm/story4.php>

## Research

An article by Drs. Corinne Valdivia, Carla Barbieri and Mike Gold has been published in a recent issue of the Canadian Journal of Agricultural Economics. The article is titled "Between Forestry and Farming: Policy and Environmental Implications of the Barriers to Agroforestry Adoption." 60(2):155-175. It can be found in print and online at <http://onlinelibrary.wiley.com/doi/10.1111/j.1744-7976.2012.01248.x/abstract>.

UMCA director Shibu Jose delivered a seminar entitled "Agroforestry for Ecosystem Services and Environmental

Benefits" on April 20th at Virginia Tech. Dr. Jose was invited to contribute as part of an agroforestry planning meeting that discussed specific roles for agroforestry discovery and engagement in the Chesapeake Bay Watershed.

Dr. Dirk Freese and Dr. Christian Boehm, from Brandenburg University of Technology, Cottbus, Germany, visited the MU Center for Agroforestry from May 5th to May 8th to meet UMCA and Forestry Department faculty and discuss the establishment of a formal Memorandum of Agreement between MU and the Brandenburg University of Technology. Dr. Freese presented a seminar entitled "Agroforestry in Europe" on May 7th, 2012. During their visit, Drs. Freese and Boehm toured numerous research sites including the MU HARC (Gold, Jose, and Glendening) and Bradford research center (Udawatta). They also visited the Hinkson Creek Restoration project (Hubbart) and toured the ARS biomass research study plots in Centralia, MO (Stelzer).



## Welcoming a new information specialist intern!

With the start of a new summer season, we would like to welcome Laura Orozco (left) to the team as the new UMCA information specialist intern. Laura is a senior strategic communication student at the University of Missouri Journalism school and hopes to work in advertising after her graduation in December 2012. This means we will be saying goodbye to Paige Pritchard (right), our intern of the past year. Paige just graduated with her B.J. in Magazine Journalism and will be working this summer operating social media for The Root Cellar. She hopes to eventually find a job in the environmental or science journalism industry. She would like to thank the Center for Agroforestry for an exhilarating and educational year, and looks forward to keeping in touch with the faculty and staff after her departure.

## COMING SOON...

- June 7-8** Comprehensive Workshop and Farm Tour  
American Legion Hall – Hartsburg, MO  
Eridu Farms – Hartsburg, MO  
For more information and registration visit:  
<http://elderberrylife.com/workshops/>
- June 30** HARC Field Day  
Horticulture & Agroforestry Research Center  
New Franklin, MO  
For more information visit:  
<http://www.centerforagroforestry.org/events/120630fieldday.pdf>



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