

## Biomass Program



Monthly News Blast

May 2012

### **Biomass Program's John Ferrell to Speak at EERE Co-Sponsored Event**

The Energy Department's Office of Energy Efficiency and Renewable Energy (EERE) is co-sponsoring the 2nd International Conference on Algal Biomass, Biofuels, and Bioproducts, to be held June 10–13, 2012, in San Diego. The conference will cover all areas of emerging technologies in algal biology, biomass production, cultivation, harvesting, extraction, bioproducts, and econometrics. The event will also discuss the critical technology areas the Biomass Program is supporting to achieve commercialization of algal biofuels. The Program's Feedstock Supply and Logistics Supervisor, John Ferrell, is scheduled to speak. Visit the [Conference's website](#) to learn more about the event and to [register](#).

### **New Updates to the Biomass 2012 Agenda**

Newly confirmed speakers for Biomass 2012: *Confronting Challenges, Creating Opportunities – Sustaining a Commitment to Bioenergy* include Heather Zichal, Deputy Assistant to the President for Energy and Climate Change; David Danielson, Assistant Secretary for Energy Efficiency and Renewable Energy; Sharon E. Burke, Assistant Secretary of Defense for Operational Energy Plans and Programs; Chris Coons, U.S. Senator (D-DE) and Member of the Senate Energy and Natural Resources Committee; and Dennis McGinn, Retired Vice Admiral, President of the American Council on Renewable Energy. Don't miss out on these and other high-level speakers. Submit your free [registration](#) today for the Biomass Program's fifth annual networking and informational conference on July 10–11, at the Washington, D.C. Convention Center.

Biomass 2012 will also feature presentations on the status of some of the pioneer advanced biorefinery projects breaking ground this year and explore pressing policy issues confronting the advanced biofuels industry, including the future of the Renewable Fuel Standard. Breakout sessions will focus on commercialization

strategies, breakthrough conversion technologies, state policy and regulatory issues, feedstock logistics, aviation biofuels, international dimensions of bioenergy, and more. The Program also extended the application deadline for the poster session to June 8; view the [Biomass 2012 Call for Posters page](#) to submit an abstract today!

Visit the [Biomass 2012 Web page](#) to find out more information about the conference.

## **NAABB Chooses Harvesting and Extraction Technologies for Phase II Scale-Up Development**

The National Alliance for Advanced Biofuels and Bioproducts (NAABB) has selected three harvesting technologies and one extraction technology for Phase II scale-up development. The three harvesting technologies include an electrolytic flocculation system from Texas AgriLife Research at Texas A&M; new cross-flow membrane technologies from Pacific Northwest National Laboratory; and the ultrasonic algal biofuel harvester from Los Alamos National Laboratory. The selected extraction technology is a specialized mesoporous nanomaterial technology for extraction of high-value lipids, e.g., tocopherol, which Iowa State University is developing.

NAABB selected these four harvesting and extraction technologies for scale-up following a rigorous review. Five harvesting technologies and four extraction technologies being developed within the NAABB program were compared to each other and to market benchmarks for projected operational costs and energy consumption for this down-select process. To read the full article, visit

[AlgaeIndustryMagazine.com](http://AlgaeIndustryMagazine.com).

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## **Past and Upcoming Events with Biomass Representation**

- BIO World Congress, April 29–May 2, 2012, Valerie Reed and Brian Duff; Orlando, Florida
- 34th Symposium on Biotechnology for Fuels and Chemicals, April 30–May 3, 2012, Leslie Pezzullo, John Ferrell, Kristen Johnson, Steve Thomas, and Bryna Berendzen; New Orleans, Louisiana
- Bioenergy Deployment Consortium Meeting, May 7–9, 2012, Neil Rossmeissl; Knoxville, Tennessee
- Technical Information Exchange on Pyrolysis Oil: Potential for a Renewable Heating Oil Substitution Fuel in New England, May 9–10, 2012, Deputy Assistant Secretary for Renewable Energy Steve Chalk and Elliott Levine; Manchester, New Hampshire

- Hybrid Processing for Biorenewable Fuels & Chemicals Production Symposium, May 9–10, 2012, Melissa Klembara; Ames, Iowa
- 5th Annual Biomass Supply Chain & Logistics Conference, May 10–11, 2012; Travis Tempel; Atlanta, Georgia
- U.S. Environmental Protection Agency's Biogas Technology Market Summit, May 14, 2012, Brian Duff; Washington, D.C.
- Biomass R&D Technical Advisory Committee Meeting, May 22–24, 2012, Elliott Levine; Richland, Washington
- Advanced Biofuels and the Midwest Market, June 7, 2012, Zia Haq and Howard Marks; Chicago, Illinois
- 2nd International Conference on Algal Biomass, Biofuels, Bioproducts, June 10–13, 2012, John Ferrell and Joyce Yang; San Diego, California
- Biogas and Fuel Cells Workshop, June 11–13, 2012, Brian Duff, Golden, Colorado
- Biomass 2012: *Confronting Challenges, Creating Opportunities – Sustaining a Commitment to Bioenergy*, July 10–11, 2012, Biomass Program staff; Washington, D.C.
- 2012 American Society of Agricultural and Biological Engineers Annual International Meeting, July 29–31, 2012, John Ferrell; Dallas, Texas

## Funding Opportunities

- [Technology Research, Development, and Tools for Clean Biomass Cookstoves](#): Funding Opportunity announced on April 12, 2012, to increase the viability and deployment of renewable energy technologies through research, development, and tools that lead to clean and efficient biomass cookstoves. Applications were accepted through May 23, 2012.
- [Bio-Oil Stabilization and Commoditization](#): Funding Opportunity announced on April 6, 2012, to support the development of thermochemical liquefaction technologies to produce a bio-oil feedstock. Applications were accepted through May 29, 2012.
- [Biomass Research and Development Initiative \(BRDI\) FY 2012](#): The FY 2012 solicitation was released on March 22, 2012. Subject to annual appropriations, the U.S. Department of Agriculture and the U.S. Department of Energy plan to contribute up to \$35 million over three years for this year's BRDI solicitation. Applications were accepted through April 23, 2012. It is anticipated that applicants who submit completed applications will be notified of the results by June 15, 2012.
- [Biomass Advancements in Sustainable Algal Production](#): The U.S. Department of Energy is requesting applications to support outdoor phototrophic algae research and development in two areas: (1) nutrient and

water use in algal production systems and (2) the development of algal technology test bed facilities. This research will support the Biomass Program's goals to model pathways for significant (>1 billion gallons per year) volumes of cost-competitive algal biofuels by 2022. Applications were accepted through April 18, 2012.

- [\*Biomass Research and Development Initiative FY 2011\*](#): In partnership with the U.S. Department of Agriculture, full proposals are being reviewed, and an announcement has been targeted for the spring of 2012.