

CIRAS
Iowa State University Extension
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Register today!

www.ciras.iastate.edu/bioindustry/bioconference

Sponsored by

- ISU Office of Biorenewable Programs (OBP)
- BIOWA Development Association (BIOWA)
- Iowa Biotechnology Byproducts Consortium (BBC)
- Biorenewable Resources Consortium (BRC)
- Center for Industrial Research and Service (CIRAS)
- Iowa Energy Center (IEC)
- ISU Center for Crops Utilization Research (CCUR)



March 7–8, 2004
Ames, Iowa



March 7–8, 2004

Scheman Building
Iowa State Center
Ames, Iowa

"I believe the Great Creator has put ores and oil on this earth to give us a breathing spell....As we exhaust them, we must be prepared to fall back on our farms, which are God's true storehouse and can never be exhausted. For we can learn to synthesize materials for every human need from the things that grow." **George Washington Carver**

IOWA STATE UNIVERSITY
University Extension

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MONDAY, MARCH 8, 2004

- 8:15 a.m. Welcome**
Dr. Stanley R. Johnson, Vice Provost, ISU Extension
- 8:25 a.m. Promoting the Growth of the Bioindustry in Iowa**
Georg Anderl, President of BIOWA Development Association Board of Directors
- 8:40 a.m. USDA Priorities and Programs for Developing Biobased Industries and Markets**
Mark Rey, Co-Chair, U.S. Biomass Research and Development Initiative, and Undersecretary, Natural Resources and Environment, USDA (invited)
- 9:10 a.m. Department of Energy Priorities and Programs for Biorenewable Energy and Biobased Products**
Doug Kaempf, Director, Office of BioMass Programs, DOE (invited)
- 9:40 a.m. The STAC Program and Opportunities for Biorenewables in the Midwest**
Floyd Barwig, Director, Iowa Energy Center
- 10:10 a.m. Break**
- 10:30 a.m. Transitioning Ethanol Plants to Biorefineries—DDGs as a Feedstock to Manufacture High-value Biobased Plastics Using Syngas Fermentation Technology: The Story of MGP Ethanol, Iowa State University and South Dakota State University; Kevin Kephart**, Director and Associate Dean, Agricultural Experiment Station, South Dakota State University, and Director, Midwest Sun Grant Initiative
Taking Soy Biodiesel Production to the “Next Stage”: The Story of West Central Cooperative and Iowa State University Jeff Stroburg, CEO, West Central Cooperative, Ralston, Iowa
Creating New Biobased Manufacturing Businesses Using Technologies Developed, Tested, and Proven by Research Institutions Diane Neuzil, Associate Director of University of Northern Iowa ABIL, and *Blake Hollis*, farmer and manufacturer of ag lubricants in northeast Iowa
- 11:45 a.m. LUNCH**
What the Battelle Report Tells Us about the Role of Biorenewables in Economic Development
Mike Blouin, Director, Iowa Department of Economic Development. The Battelle Report is scheduled to be released in February. It was commissioned by the state of Iowa to outline a strategic direction for economic development and investment.
- 1:00 p.m. Biobasics Course: Understanding Issues and Opportunities for Each Link of the Value Chain**
Steve Howell, Director, Plant Sciences Institute, ISU
Ken Moore, Professor of Agronomy, ISU
Robert Brown, Director, Center for Sustainable Environmental Technologies, ISU
Doug Stokke, Professor of Natural Resource Ecology and Management, ISU
Rob Anex, Professor of Agricultural and Biosystems Engineering, ISU
- 3:05 p.m. Break**
- 3:30 p.m. Federal Biobased Products Preferred Procurement Program (FB4P)**
Marvin Duncan, USDA
Steve Devlin, ISU CIRAS
Bruce Coney, ISU CIRAS
- 5:00 p.m. Adjourn**

The Conference

The 2004 Biobased Industry Outlook Conference will be held on March 7–8 in Ames, Iowa. The conference will provide participants with the latest information regarding biobased industrial development and an overview of the opportunities the bioeconomy provides for economic development.

The event kicks off with a reception on March 7th at 7 p.m. The reception will feature new biobased technologies being explored by researchers throughout the Midwest, including researchers at ISU, the University of Iowa, and the University of Northern Iowa.

Informational meetings begin at 8:15 a.m. on March 8. Current-ly, speakers from the USDA, the DOE, ISU, biobased companies, and the Federal Biobased Products Preferred Procurement Program have been invited to speak about the future of biobased products and bioenergy. The morning session will include biobased business success stories and the industry outlook.

After lunch, a biobasics short course will explain biobased value chains and opportunities businesses and communities may want to consider. The final afternoon session on March 8th will provide information about the Federal Preferred Procurement Program for Biobased Products.

You will also have the opportunity to visit informational displays and network with others interested in the bioindustry during the two-day event.

Companies and individuals interested in what is going on in the bioindustry are encouraged to attend this conference.

Reception and Poster Session

The conference opens Sunday evening, March 7, with a reception and poster session that features research projects sponsored by the Iowa Biotechnology Byproducts Consortium and the Ames Laboratory Biorenewable Resources Consortium.

Iowa Biotechnology Byproducts Consortium (BBC) The work of the BBC is supported by the Cooperative State Research, Education, and Extension Service, U. S. Department of Agriculture (USDA), under Agreement No. 2002-34188-12035. Its primary mission is to conduct fundamental and applied investigations aimed at enhancing the recovery and utilization of byproduct materials arising from new and emerging industries in biotechnology, with emphasis on fermentation wastes and agribusiness and, further, to reduce the burden of waste products on municipal waste management systems.

For well over a decade, this has been the overarching goal of the consortium's research program. More recently, the USDA has recommended that realignment in support of the federal initiative in biobased products should be a future direction of the BBC. In its August 2002 draft report entitled "A Vision for Bioenergy and Biobased Products in the United States," the Biomass Research and Development Technical Advisory Committee set forth a national vision for bioenergy and biobased products in the United States. Achieving this vision will require advanced research to overcome the technological barriers to biomass production, conversion, and wide-scale utilization.

A strong bioenergy and biobased products industry will help stabilize or reduce greenhouse gas emissions and provide avenues for more productive use of agricultural, industrial, municipal, and forestry wastes. With its traditional research strengths in byproduct recovery and utilization, the BBC is well positioned to emphasize the conversion of byproducts of the agricultural processing industry into bioenergy and biobased products.

Posters will highlight significant accomplishments and the impact (economic, environmental, and social benefits) of projects currently funded by the consortium on the State of Iowa and the Midwest. Examples of such projects include ensiled storage and conversion of biotechnology byproducts, byproduct recovery at dry mill ethanol plants, catalytic conversion of fatty acids to alkyl esters, value-added products from syngas fermentation, biodegradable de-icers from corn steep water, commercially valuable enzymes from bacterial and agricultural sources, and constructed wetlands for wastewater and land reclamation.

Ames Laboratory Biorenewable Resources Consortium The Biorenewable Resources Consortium (BRC) is dedicated to the development and utilization of agriculturally derived alternatives to petrochemicals and other nonrenewable fossil resources. The BRC will help redress the problem of our national dependence on nonrenewable resources as a primary source for energy. The \$2-million funding for the BRC is part of the Energy and Water Appropriations bill for fiscal year 2002 and will come through the Office of Industrial Technologies in the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy.

Several posters will describe the results from seed projects funded by the BRC. The projects involve interdisciplinary research teams, and include oxidation of soybean oils, novel biolubricants, syngas fermentation, adhesives from biorenewable materials, and environmentally friendly wood preservatives.



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REGISTRATION FEE

Early registration (until Feb. 27) \$50

Registration (after Feb. 27) \$75

TOTAL \$ _____

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Cancellations made prior to March 1 will be subject to a \$20 handling fee. No refunds will be issued for cancellations made after March 1.

I am unable to attend this conference, but would like to remain on your mailing list for additional bioindustry information.

It's easy to register!

ONLINE

www.ciras.iastate.edu/bioindustry/bioconference

MAIL

University Conference Services

102 Scheman Building

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