

TIMBR

The Institute for Massachusetts Biofuels Research

UMassAmherst

The Second Annual TIMBR Conference on Cellulosic Biofuels

Catalyzing Industry – Academic Collaboration

April 30, 2010

University of Massachusetts, Amherst

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University of Massachusetts Amherst

April 30, 2010

Dear Colleagues:

Welcome to the Second Conference on Cellulosic Biofuels at the University of Massachusetts Amherst!

Clean energy has emerged as a priority for Massachusetts and the nation, both in terms of the environmental and health benefits to local communities and the potential for widespread economic development. Advanced biofuels (also known as second generation biofuels) are an indispensable component of the nation's clean energy portfolio. The advanced biofuels industry is currently still in its infancy, but is poised for rapid growth. Academic and industrial research underway in laboratories today will feed the advanced biofuels industry of tomorrow.

The advanced biofuels industry will mature through a combination of technical breakthroughs, forward-looking policies and business leadership. Today's conference will feature speakers who will touch on each of these important components. We will begin the morning with technical perspectives of experts from campus and across the nation. The afternoon session will feature commentary on public policy trends and technical updates from the advanced biofuels industry.

Thank you to all the speakers, presenters, and attendees for contributing to make this a terrific event. And, again, welcome!

Yours truly,

Susan Leschine
Co-Director, TIMBR
Professor of Microbiology

Danny Schnell
Co-Director, TIMBR
Professor of Biochemistry
and Molecular Biology

Michael Henson
Co-Director, TIMBR
Professor of Chemical
Engineering

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University of Massachusetts, Amherst

- 8:00-5:00 Registration
Campus Center, 1st Floor Registration Desk
- 8:00-9:00 Continental breakfast
Campus Center, Room 163
- Morning: **Advances in Biofuels Research**
Campus Center, Room 163
- Moderator: **Susan Leschine**
Co-Director, TIMBR; Department of Microbiology, UMass Amherst
- 9:00 **Welcome**
Steve Goodwin
Dean, College of Natural Sciences, UMass Amherst
- 9:15 **Keynote Address:**
Cellulosic Biofuels: Do We Have To? Can We?
Martin Keller
Associate Laboratory Director for Biological and Environmental Sciences,
Oak Ridge National Laboratory
- 10:15 **Break**
- 10:45 ***Systems Biology of Plant Biofuel Attributes***
Samuel Hazen
Department of Biology, UMass Amherst
- 11:30 ***Pyrolysis Based Technologies for the Conversion of Lignocellulosic Biomass into Fuels and Chemicals***
George Huber
Department of Chemical Engineering, UMass Amherst
- 12:15-1:30 **Lunch**
Campus Center, 10th Floor "Amherst Room"

Afternoon: **The Biofuels Industry in Massachusetts and the Northeast**
Campus Center, Room 163

Moderator: **Michael Henson**
Co-Director, TIMBR; Department of Chemical Engineering, UMass Amherst

1:30 ***State Policy Updates: MA Biofuels Mandate and Biomass Sustainability/Carbon Study***

Dwayne Breger

Director, Renewable and Alternative Energy Development
Massachusetts Department of Energy Resources

2:00 ***The Northeast/Mid-Atlantic LCFS: Lessons Learned from California***

Andrew Schuyler

Director, Northeast Region, New Fuels Alliance

2:30 – 4:00 **Poster Session**

Campus Center, First Floor Foyer (Outside Room 163)

Industry Technology Updates

4:00 ***Engineering Biomass Feedstocks for Industrial Biotechnology***

Jeremy Johnson

Agrivida, Medford, MA

4:15 ***Anellotech: Petrochemicals from Biomass***

David Sudolsky

CEO, Anellotech, New York, NY

4:30 ***Consolidated BioProcessing for the Production of Fuels and Chemicals from Biomass***

Kevin Gray

Chief Technology Officer, Qteros, Marlborough, MA

4:45 ***Myriant Technologies – Production of Bio-based Succinic Acid***

Jan Pero

Senior Director of R&D, Myriant Technologies, Quincy, MA

5:00 ***A New Dawn for Industrial Photosynthesis***

Dan Robertson

Senior Vice President, Joule Biotechnologies, Cambridge, MA

5:15 ***Closing***

Danny Schnell

Co-Director, TIMBR; Department of Biochemistry & Molecular Biology
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