

# Biofuels: Regional Needs, National Challenges

**May 21-22, 2007**

**Stewart Center, Room 218**

**Purdue University**

**West Lafayette, Indiana**

The 2007 Bioenergy Symposium will begin at 12:30 p.m. Monday, May 21, in Stewart Center, Room 218 and continue through May 22 until 4:15 p.m. The two-day conference, hosted by Purdue's Energy Center in Discovery Park and the Laboratory of Renewable Resources Engineering, will address the regional and national benefits of advancing biofuels as an alternative energy source.

The conference will focus on current research activities as well as commercialization and policy issues on biofuels, with an emphasis on dry grind plants, co-product utilization, biodiesel and cellulose ethanol. The first day of the conference will feature research from the Indiana universities and colleges, while the second day will discuss regional needs and national challenges for biofuels.

A poster session on alternative energy and biofuels research at Purdue will be held in conjunction with the conference. The poster session will be held in the East and West Faculty Lounge in the Purdue Memorial Union.

Event organizers are Jay Gore, interim director of the Energy Center at Discovery Park and associate dean of engineering for research and entrepreneurship; and Michael Ladisch, director of LORRE and distinguished professor of agricultural and biological engineering.

Cost of the conference is \$100 per participant. Students are free if they pre-register, or \$25 at the door. To register for the symposium, go to: <http://discoverypark.purdue.edu/wps/portal/Energy/bioenergy>.

The workshop has received a grant that can be used to cover the registration fee for those who find it restricting. Please contact Lisa Muncy ([lamuncy@purdue.edu](mailto:lamuncy@purdue.edu) or 765-494-0743).

For more information about the conference, contact LORRE at (765) 494-7022 (<http://engineering.purdue.edu/LORRE>).

## **AGENDA**

### **Monday May 21, 2007**

12:30 p.m.                    *Registration Opens*  
Stewart Center, Room 218

1.00-5.00 p.m.            *Research Forum: Updates on Bioenergy Research*

*Structure, Biosynthesis and Gene Discovery in Cellulose and Plant Wall Synthesis and Evolution*

Nicholas Carpita, Professor of Plant Physiology, Purdue University

*Assessment of Switchgrass Production for Cofiring in Indiana*

James Eflin, Chairperson and Associate Professor of Natural Resources,  
Ball State University

*New IUPUI Lugar Renewable Energy Center*

Andrew Hsu, Associate Dean for Research and Graduate Programs and Professor of  
Mechanical Engineering, Indiana University - Purdue University, Indianapolis

*Cofiring Biomass with Coal*

Klein Ileleji, Assistant Professor of Agricultural and Biological Engineering,  
Purdue University

*Uncertainty in the Life Cycle Assessment of Ethanol Production*

Jeremy Johnson, Co-Founder and Research Scientist, Agrivida

*Bio H Project*

Robert Kramer, Research Professor of Computer Engineering, Purdue University- Calumet

*Plant Biomass Control*

Yuki Mizukam, Assistant Professor of Biological Engineering, Purdue University

*Bioenergy*

Nathan Mosier, Assistant Professor of Agricultural and Biological Engineering, Purdue University

*Microbial Fuel Cells*

Robert Nerenberg, Assistant Professor of Civil Engineering and Geological Sciences, University of Notre Dame

*Cybernetic Models for Recombinant Yeasts co-fermenting Glucose and Xylose Mixture*

Doraiswami Ramkrishna, Distinguished Professor of Chemical Engineering  
Hyun-Seob Song, Post Doctoral Research Associate of Chemical Engineering

*Biomass Gasification Reactor Hydrodynamics*

Don Takehara, Director-Center for Research and Innovation and Associate Professor of Research, Taylor University

*Biodiesel Efforts*

Bernie Tao, Professor of Agricultural Engineering and Food Science, Purdue University

*Wind Energy Economics*

Ian Van Lieu, Graduate Student of Agricultural Economics, Purdue University

5:00 p.m.

*Reception with Scientific Posters*

East and West Faculty Lounge – Purdue Memorial Union

**Tuesday May 22, 2007**

7:30 a.m.

*Registration & Continental Breakfast*

Stewart Center, Room 218

8:20 a.m.

*Welcome*

Jay Gore, Associate Dean, College of Engineering; Vincent P. Reilly Professor and Interim Director of the Energy Center, Purdue University

8:30 a.m.

*Biotown Story*

Andy Miller, Agriculture Director, Indiana State Department of Agriculture

9:00 a.m.

*Entrepreneur's View*

Charley Smith, President and CEO, Countrymark Co-op

9:30 am.

*Policy and State Infrastructure Needs*

Frank Dooley, Professor of Agricultural Economics, Purdue University

10:15 a.m.

*Break*

10:30 a.m.

*Technical Barriers*

Michael Ladisch, Distinguished Professor of Agricultural and Biological Engineering, Purdue University

11:00 a.m.

*Biodiesel Producer Presentation*

Norbert Thouvenot, North America Asset Manager, Louis Dreyfus Commodities

- 11:30 a.m. *Question and Answer Session*  
Moderator: Michael Ladisch, Distinguished Professor of Agricultural and Biological Engineering, Purdue University
- 12:00 p.m. *Lunch* – Stewart Center, Room 302-306
- 1:15 p.m. *Challenge for Biofuel Oriented Plant Science Research*  
Clint Chapple, Professor of Biochemistry, Purdue University
- 1:45 p.m. *Environmental Permitting and Compliance – A Proactive Approach to Avoiding Unnecessary Delay and Expense Panel*  
  
Moderator: Christopher C. “Kit” Earle, Partner, Bose McKinney & Evans LLP  
Matthew Klein, Bose McKinney & Evans LLP  
David Jordan, Air Permitting Consultant  
Mark Basch, Indiana Department of Natural Resources, Division of Water
- 3:00 p.m. *Break*
- 3:15 p.m. *Clinton County Story*  
Gina Sheets, Director, Clinton County Economic Development
- 3:45 p.m. *Future Roadmapping*  
Michael Ladisch, Distinguished Professor of Agricultural and Biological Engineering, Purdue University
- 4.15 p.m. *Adjourn*