

**ANNOUNCEMENT AND CALL FOR PAPERS**  
**ABSTRACT DEADLINE: NOVEMBER 30, 2004**

**27<sup>th</sup>**

**Symposium on Biotechnology  
for Fuels and Chemicals**

Hosted by the **National Renewable Energy Laboratory**

**Denver Marriott  
City Center Hotel  
Denver, Colorado  
May 1-4, 2005**

**BIOTECHNOLOGY**

# The 27th Symposium on Biotechnology for Fuels and Chemicals...

continues a symposium series that focuses on improving the economics of fuels and chemicals production. This year's program provides an excellent opportunity for experts from around the world to gather and discuss the latest research breakthroughs and results in biotechnology. A variety of formal technical sessions, poster sessions, and informal discussion groups will stimulate the exchange of new information among attendees from industrial, academic, and government sectors. Participant experiences will be enhanced by optional tours and social activities that take advantage of the Symposium's location in downtown Denver, nearby the beautiful Rocky Mountains.

## Sessions

### Session 1A\*

#### Feedstock Supply and Logistics

Chair: Peter Flynn, University of Alberta

Co-chair: Foster Agblevor, Virginia Polytechnic Institute and State University

Topics for this session include environmental and economic impacts, innovative collection, storage and transportation methods, and plant science applications.

### Session 1B\*

#### Enzyme Catalysis and Engineering

Chair: Joel Cherry, Novozymes Biotech, Inc.

Co-chair: Kevin Gray, Diversa Corporation

Speakers will focus on advances in enzyme discovery and modification, and on improvements in cost effectively producing and using enzymes.

### Session 2

#### Today's Biorefineries

Chair: Robert Benson, Tembec Chemical Products Group

Co-chair: Paris Tsobanakis, Cargill, Inc.

This session will focus on biorefining operations that exist today and the opportunities and lessons they provide for building the advanced biorefineries of the future.

### Session 3A\*

#### Plant Biotechnology and Feedstock Genomics

Chair: Sean Simpson, AgriGenesis Biosciences, Ltd.

Co-chair: Wilfred Vermerris, Purdue University

New approaches will bolster the sustainable success of bio-energy and bioproducts. The potential of transgenic, genetic, and genomic-based modifications to impact the architectural, compositional, or metabolic functions of plants will be discussed in relation to an enhanced renewables base.

### Session 3B\*

#### Biomass Pretreatment and Hydrolysis

Chair: Richard Elander, National Renewable Energy Laboratory

Co-chair: Mohammed Moniruzzaman, Genencor International

Novel reactor configurations and new process approaches to pretreat and saccharify biomass will be the focus of this session.

### Session 4

#### Industrial Biobased Products

Chair: Ray Miller, E.I. DuPont de Nemours and Co., Inc.

Co-chair: Matt Tobin, Codexis

Biological rather than petrochemical production of chemicals and other value-added bioproducts will be discussed in this session. Advances in process integration, demonstration, economics, and commercialization will be highlighted.

### Session 5

#### Microbial Catalysis and Metabolic Engineering

Chair: Lisbeth Olsson, BioCentrum-DTU,

Technical University of Denmark

Co-Chair: Aristos Aristidou, Cargill Dow LLC

This session will focus on finding new and further developing existing microorganisms for improved performance in producing fuels and chemicals.

### Session 6

#### Bioprocess R&D

Chair: Michael Ladisch, Purdue University

Co-chair: Peter Yu, Hong Kong Polytechnic University

This session will cover reactor configurations and the integration of engineering with microbiology, biochemistry, and chemistry to produce fuels and chemicals.

### SPECIAL TOPICS

#### A\* International Energy Agency Task #39—Liquid Biofuels

Chair: Jack Saddler, University of British Columbia

#### B\* Bioenergy Life Cycle Analysis/Economics of Sustainability

Chair: John Sheehan, National Renewable Energy Laboratory

\* Concurrent Sessions.

## Call for Papers

The 27th Symposium session organizers invite you to submit abstracts for any of the sessions or special topics listed in the technical program.

ABSTRACT DEADLINE ..... November 30, 2004

AUTHOR NOTIFICATION ..... January 7, 2005

PAPERS DUE ..... May 1, 2005

For poster or oral presentations, please e-mail abstracts to [jim\\_duffield@nrel.gov](mailto:jim_duffield@nrel.gov). Only electronic files will be accepted. The abstract should be one-page, 150 to 200-word count, and include the following information. Use 12-point Times New Roman, in Microsoft Word, if possible.

- Title (14 point bold)
- Author(s), with presenter underlined
- Corresponding author (\* following name)
- Affiliation of all authors
- Address to send correspondence
- Phone, Fax , E-mail address
- Presentation format: please designate session number and preference for oral presentation or poster session. Please also notify us if you are a student, as awards will be given for the best student posters.

See [www.eere.energy.gov/biomass/biotech\\_symposium/](http://www.eere.energy.gov/biomass/biotech_symposium/) for abstract submittal details and sample abstracts.

Poster and oral presenters are eligible and encouraged to submit manuscripts for inclusion in the proceedings.

Poster space is limited. Please do not submit an abstract if you are not committed to presenting.



## Lodging

### Denver Marriott City Center Hotel

Denver, CO

Phone: 800.241.3333

[www.denvermarriott.com](http://www.denvermarriott.com)

In order to guarantee the conference rate, hotel reservations must be made by April 18, 2005. Refer to the "Biotechnology Symposium" when making phone reservations. Check in time is 4:00 p.m. Check out time is 11:00 a.m.

### Site Details

Located in a spectacular setting at the foot of the Rocky Mountains, Denver is one of America's fastest growing cities — and one of its most exciting. The Mile High City entertains more than 8.8 million visitors a year with people coming to enjoy the city's outstanding cultural attractions, museums, shopping, dining and nightlife.

Denver's climate is mild, sunny, and semi-arid. Spring weather is usually beautiful but can be unpredictable. Casual clothing is ideal for Denver's warm, sunny days. Evenings can be cool, though, so it is advisable to have a sweater or jacket on hand.



## Registration

### Registration Fees:

Before April 1, 2005

Full Conference Registration .....	\$500
One-Day Registration .....	\$300
Student Registration .....	\$200

After April 1, 2005

Full Conference Registration .....	\$550
One-Day Registration .....	\$350
Student Registration .....	\$250

Full conference registration includes the welcome reception, continental breakfasts, daily refreshments, a poster reception/buffet supper, the conference banquet, and conference Proceedings and materials. One day and student registration fees do NOT include the Proceedings.

Refund/Cancellation: We understand that sometimes plans change. All refund requests submitted in writing and postmarked by April 8, 2005 will be issued in full. Cancellation requests received after April 8, 2005 will not be refunded. Substitutions may be made at any time.

### Transportation

Air travel reservations should be made to Denver International Airport (DIA). The Super Shuttle provides ground transportation to the Marriott City Center Hotel. No reservations are necessary. The shuttle runs every 15-20 minutes and costs about \$18.00 per person for a one-way ticket, \$32 for a round-trip ticket. Look for their ticket counter near the baggage claim area. The shuttle will take you directly to the Marriott City Center Hotel.



### Sponsorship

Sponsorship opportunities for companies and organizations are still available. In addition to public recognition, sponsors may receive a complimentary registration. For more information about sponsorship opportunities, please contact Jim McMillan, Mark Finkelstein, or Brian Davison. (Contact information is provided below.)

### Contact Information

For more—and continually updated—information about the 27th Symposium, visit [www.eere.energy.gov/biomass/biotech\\_symposium/](http://www.eere.energy.gov/biomass/biotech_symposium/) or contact the conference organizers.

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