



A special conference of the
**Society for Industrial Microbiology
and Biotechnology**

CALL FOR ABSTRACTS

Deadline: 12/14/2011

The 34th Symposium program chairs invite you to submit abstracts for the posters or oral presentations in the technical program.

All submissions must be submitted electronically. You will receive automatic confirmation of receipt of your abstract.

34th Symposium on Biotechnology for Fuels and Chemicals



Sheraton New Orleans Hotel
New Orleans, LA
April 30 - May 3, 2012

www.simhq.org/sbfc

Welcome!

The conference organizers welcome you to the 34th Symposium on Biotechnology for Fuels and Chemicals (aka SBFC), hosted this year by the Oak Ridge National Laboratory. By popular demand, we are back in New Orleans, home of Jazz. On the topic of Jazz, the 34th SBFC will be held in the middle of Jazz Fest 2012 (www.nojazzfest.com) and we encourage you to take advantage of this during the weekends surrounding your SBFC activities.

A "Don't Miss" Meeting Program!

We have assembled an impressive technical program that includes 19 sessions with one Special Topic evening session on international bioenergy center progress, as well as 2 large poster sessions. Technical topics span new biomass sources and sustainability, biomass recalcitrance and pretreatment, enzyme and microbial advances, new types of biofuels and infrastructure issues, bioprocessing, and biorefineries, and the bioenergy research center update. See all session topics.

Great Networking Opportunities

As was the case for the 33rd SBFC, there will be three concurrent sessions except for poster and special topic sessions. With the two poster sessions, mid-session breaks, a free Wednesday afternoon, and the banquet/reception, there will be ample opportunities for technical discussions and networking across four days of stimulating programming. We encourage you to take full advantage of the meeting by active participation. Again, this year's Symposium is made possible through the hard work of the staff at the Society for Industrial Microbiology. Remember booking your rooms early, Jazz Fest draws a huge crowd from out of town

Thomas Klasson, USDA-ARS-SRRC, *Conference Chair*
Jonathan Mielenz, ORNL, *Conference Chair*.

Deadline for abstract submission

December 14, 2011

Please note: In order to provide timely acceptances to submitters, the abstract deadline will not be extended.

Submit abstracts for posters and oral presentations at:
<http://sim.confex.com/sim/34th/cfp.cgi>

Meeting pattern

Please note our meeting pattern: Monday-Thursday.

New Orleans

Here, in this little corner of the American South, New Orleans celebrates almost anything with the saying: LAISSEZ LE BONS TEMPS ROULER -- LET THE GOOD TIMES ROLL, a reminder of our French heritage, where European traditions blend with Caribbean influences; a place where Haitian and African Creoles were instrumental in creating jazz and Cajun Zydeco, legendary cuisine and a history as colorful as the local architecture. New Orleans is a cultural gumbo ... a sensory overload with an authentic spirit. ... a place like no other ... a way of life that began three centuries ago and remains today.



Photo courtesy of New Orleans Convention and Visitors Bureau.

Contact Information

Jonathan Mielenz

Conference Chair
Oak Ridge National Laboratory
PO Box 2008
Oak Ridge, TN 3783
mielenzjr@ornl.gov

Thomas Klasson

Conference Chair
USDA-ARS-SRRC
Commodity Utilization Research
1100 Robert E. Lee Blvd.
New Orleans, LA 70124
thomas.klasson@ars.usda.gov

Jim McMillan

Conference Co-Chair
National Renewable Energy Laboratory
1617 Cole Blvd.
Golden, CO 80401
jim.mcmillan@nrel.gov

Steve Decker

Conference Co-Chair
National Renewable Energy Laboratory
1617 Cole Blvd.
Golden, CO 80401
steve.decker@nrel.gov

Christine Lowe

Conference Coordinator
Society for Industrial Microbiology
3929 Old Lee Highway, Suite 92A
Fairfax, VA 22030
tel: 703-691-3357, ext. 26
chris.lowe@simhq.org



Photo courtesy of New Orleans Convention and Visitors Bureau.

Meeting Venue

Sheraton New Orleans

500 Canal St
New Orleans, LA

A block of rooms has been reserved at the conference hotel, Sheraton New Orleans Hotel, for the conference dates April 30 - May 3, 2012. The conference rate is \$169. This rate may be offered three days before and three days after the conference dates if rooms are available.

Housing is only available at the conference rate through the conference link.

Located on the historic Canal Street streetcar line adjacent to the French Quarter, the Sheraton New Orleans Hotel is a short walk to Bourbon Street, Mardi Gras parades, Jazz Fest activities, Harrah's Casino, the Ernest N. Morial Convention Center, the Aquarium of the Americas, Riverwalk Marketplace, the city's most renowned restaurants and legendary nightlife. The Sheraton New Orleans Hotel is where stories begin.

Amenities include complimentary internet in sleeping rooms for those booking through the conference website.

Please reserve early!

Important Dates

Abstract deadline

12/14/2011

Registration and housing begins

1/6/2012

Registration deadline for poster presenters

(to be assured of publication and poster space)

3/30/2012

Advanced registration and housing ends

3/30/2012



Tabletop Exhibits

The tabletop exhibit prospectus is available in pdf at the Symposium website or by contacting Nancy Gorell (nancy.gorell@simhq.org).

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Symposium Registration

Full conference, Postdoctoral Fellow, and Emeritus registrations include continental breakfasts Tuesday-Thursday, daily refreshments, poster receptions, conference banquet, conference program and abstracts, and access to uploads of presentations.

One day registration does not include the conference banquet. Separate banquet ticket may be purchased. Banquet is optional at a reduced price for student registrants.

Guest fee includes participation in all events including banquet without attending scientific sessions and lectures.

Cancellations: Requests for refunds must be submitted in writing to jennifer.johnson@simhq.org. Refunds will be issued, less a \$75 fee.

No refunds will be issued after March 30, 2012. *Personnel substitutions may be made in lieu of cancellation.*

Prices before 3/30/2012

Registration Type	SIM Member	Nonmember
Full	\$495	\$695
One-day	\$210	\$280
Postdoctoral Fellow	\$390	\$540
Student w/ banquet	\$210	\$280
Student w/o banquet	\$155	\$225
Emeritus	\$260	n/a
Guest	\$260	\$290

Prices increase after 3/30/2012. See conference web site for rates and details on registration types.

Sponsorship Benefits and Opportunities

The 34th Symposium program will once again provide an excellent opportunity for experts from around the world to gather and discuss recent progress.

Sponsorship provides financial support for the conference and is an excellent way to provide visibility to your organization, promote your brand, and gain access to over 800 attendees. There are a variety of sponsorship packages and opportunities for organizations of all sizes.

For more information, contact Christine Lowe (chris.lowe@simhq.org).

Company information

Company name _____

Company contact _____

Address _____

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Submit company logo (as eps or tif file) to suzi.eller@simhq.org. Submit names of complimentary registrants to nancy.gorell@simhq.org.

Payment Information

(SIMB Fed ID# 35-6026526)

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\$500+ Basic sponsorship

Company name featured on Symposium website, in conference program, and on signage.

____ General meeting sponsorship

____ Specific session (designate)



\$1,500+ Company Image Package

Company name and logo featured on Symposium website, in conference program, and on signage.

____ General meeting sponsorship

____ Specific session (designate)



\$2,500+ Company Image and Meeting Registration Package

Company Image Package plus one (1) complimentary full conference registration providing full access to all sessions and events.

____ Coffee break(s) (M - PM; T-Th - AM and PM) (\$3,000 ea)

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____ Specific session (designate)



\$5,000+ Deluxe Company Image and Meeting Registration Package

Company Image Package plus two (2) complimentary full meeting registrations @ 1 per \$2,500.

____ Conference tote bags with company and Symposium logos (Call for pricing)

____ Pre-banquet reception (W) (\$5,000)

____ Cyber Café (\$6,000) - logo on each computer station and signage at entrance

____ General meeting sponsorship

____ Specific session (designate)



\$10,000+ Special Session Package

Company Image Package plus four (4) complimentary full conference registrations @ 1 per \$2500; one tabletop exhibit booth, and your literature in attendee tote bags.

____ Poster session/reception (M, Tu) (\$15,000 ea)

____ Continental breakfast (T, W, Th) (\$12,000 ea)



\$20,000+ Symposium Banquet

Company Image Package plus eight (8) complimentary full meeting registrations, one tabletop exhibit booth, and your literature in attendee tote bags.

____ Annual dinner followed by award presentations and banquet speaker.

Session Topics

Yeast and Fungal Science & Technology

Yeast and fungi are powerful biocatalysts but the ideal microorganism for full and rapid conversion of the multiple substrates in biomass does not exist. This session will present recent research progress with yeast and fungi to overcome the fundamental limitations to rapid bioconversion of biomass substrates. Research topics include new microbial strain discovery, progress using genetic engineering, microbial evolution and systems biology approaches as well as testing of natural or constructed consortia for bioconversion.

Bacterial Science & Technology I-II

Application of newly developed bacteria for ethanol and other fuel production will be presented in this session. Topics include the fermentative testing of newly developed thermophilic bacterial strains, efficiency of bioconversion, the response of microorganisms to pretreated biomass substrates and inhibitors, and the response of advanced microorganisms to genetically-modified biomass sources.



Photo courtesy of New Orleans Convention and Visitors Bureau.

Algae Science & Technology

Algal cultures are becoming more popular for a microbial platform for production of fuels and chemicals. This session will focus on discovery of new algae strains, efficient growth of these organisms, the use of innovated open and closed production systems as well as the practicality of using those systems.

Enzyme Science & Technology I-III

Enzymes are central to biochemical deconstruction of biomass whether added externally or produced by the bioconversion microorganism. This session will highlight advances in enzyme discovery, structural and kinetic analysis, characterization and modification to improve enzyme performance, discovery of new thermophilic enzymes, and the growing interest in lignin-degradation and related enzymes.

Pretreatment & Fractionation I-III

Lignocellulosic biomass is difficult to economically disassemble at high yield due to the presence of highly modified structural carbohydrates and aromatic (lignin) polymers. Papers in this session will discuss recent developments in chemical and biochemical pretreatment or fractionation processes – both existing and new approaches – that make biomass more amenable to cost-effective bioconversion.

Biomass Recalcitrance

Cost-effective deconstruction of biomass to permit rapid bioconversion is challenging and has spurred fundamental studies into why biomass is resistant to bioconversion. While the Pretreatment & Fractionation sessions will focus on the practical aspects of pretreatment; this session will highlight fundamental advances in the study and understanding of plant cell wall structure and composition, emphasizing efforts to improve biomass deconstruction efficiency.

Plant Science & Technology

Research aimed at producing improved plant cultivars is underway worldwide with the goal of producing biomass sources with improved characteristics. This session will highlight research on breeding to improve plant yield, advances in domestication of

promising biomass species, in planta expression of enzymes, developments in crops with reduced recalcitrance and better processing characteristics, and advances in plant systems biology research.

Biomass Supply & Sustainability

Existing and newly developed biomass sources will need to be produced and delivered to the biorefinery with the lowest possible cost. They also have to be permanently sustainable. Here we will present studies and demonstrations of biomass production technology, discuss sustainability issues, including land use, economics, and supply chain logistics critical to dramatically reducing the feedstock cost.

Biomass Physicochemical Analysis

Knowledge of the physicochemical properties of biomass often dictated its suitability as a feedstock for biological or thermal conversion. Improved methods for characterization, such as physical or composition analysis, and how this translates to biomass "quality" will be discussed. Technology for rapid analysis for high throughput and screening will be presented in this session.

Bioprocessing & Separations Technology

An economically viable bioprocess requires definitive biomass characterization, effective material handling and bioconversion technologies in combination with efficient downstream product separation and recovery. Papers in this session will describe advances in the development, testing and demonstration of bioconversion processes at various stages of process integration, including improvements in first generation ethanol plants.

Biofuels and Biorefinery Economics & Commercialization

Advanced biofuels technologies are starting to emerge from the laboratory and enter the commercial marketplace. Speakers in this session will describe current efforts and progress in demonstrating and deploying advanced biofuels/biorefining technologies. In addition, this session will contain selected presentations discussing the issues related to delivery and use of alternative fuels in society including delivery logistics, and engine manufacturer acceptance of alternative fuels.



Photo courtesy of New Orleans Convention and Visitors Bureau.

Biobased Chemicals

While fuels are targets for most bioconversion research, many chemicals can be produced from biomass-derived sugars, synthesis gas, or other sustainable substrates. This session will highlight advances in biological production of chemicals, other than fuels. Both commodity chemicals and high-value products will be included.

Emerging Biofuels

Petroleum-based fuels include diesel, jet turbine fuel as well as gasoline. This session will present recent progress in development of new fungible fuels such as biogasoline, jet fuel, higher alcohols, biogas, etc., as technology is developed to meet broader markets aimed at fuller displacement of petroleum and coal with biomass-derived fuels.

Single Special Topic:

US & International Bioenergy Research Center Updates

During the last two years bioenergy research centers and institutes continue to focus on developing fundamental knowledge and applied technology for production of biomass-derived fuels and chemicals. Invited speakers from the three DOE bioenergy research centers plus international bioenergy institute/center speakers will present research goals and progress over the last couple years.

PLAN TO ATTEND

35th Symposium on Biotechnology for Fuels and Chemicals · April 29 - May 2, 2013 · Hilton Portland · Portland, OR

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3929 Old Lee Highway

Suite 92A

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