

# Message from the DEO

The Center for Biocatalysis and Bioprocessing (CBB), The University of Iowa, has been conducting an annual conference in October every year for the past 19 years. This year, the 20<sup>th</sup> CBB Conference is scheduled for October 17 and 18. The conference will be held in the beautiful downtown campus of The University of Iowa with world-renowned speakers, representatives and attendees from industry and academia. In addition to major presentations from experts, the conference also features short presentations and posters from graduate students. The proceedings are conducted in a friendly, open atmosphere to promote interaction between experts, faculty from The University of Iowa, post-doctoral fellows and students. Several major industries have consistently sponsored the conference, helping to defray the cost. We thank the sponsors for the continued support.

Traditionally, the theme of the CBB Conference has been on cutting edge technology in the areas of "Biocatalysis and Biotechnology" in the broadest sense, including enzymemediated chemical transformations and mechanisms, metabolic engineering, directed evolution, genomics, agricultural feedstock utilization, protein expression/production, and bioprocessing.

I would like to welcome all the attendees for this conference and also thank the sponsors. I am looking forward to another enjoyable scientific meeting.

Sincerely, Mani Subramanian

DEO, Center for Biocatalysis and Bioprocessing Professor, Chemical & Biochemical Engineering The University of Iowa





# General Information

#### OBJECTIVES AND FOCUS

CBB conference, 2011, will be held on Oct. 17 & 18. The theme is "Current Topics in Industrial Biotechnology". This year the conference will focus on "genomic & metabolic engineering approaches at improving plant oil, microbial production of metabolites, and protein expression". CBB has identified a good mix of experts from industry and academia for another exciting conference. There will also be an update on CBB offerings and future direction. In addition, a wide range of topics will be covered in the poster session; we anticipate more than 50 posters. We promise to offer an intellectually stimulating experience.

#### CONFERENCE LOCATION

The CBB conference will be held on The University of Iowa campus at the Iowa Memorial Union (IMU), on Madison Street.

#### REGISTRATION

Advanced registration is encouraged. The registration fee is \$200 (\$100 for students and postdoctorals), which includes all conference meals and expenses except for travel and lodging. The late registration fee is \$250 (after October 1, 2011). Registration may be done online at <a href="https://www.uiowa.edu/~biocat/conference">www.continuetolearn.uiowa.edu/UIConferences/</a>

#### PARKING

Parking is available in the IMU Parking Ramp and the North Madison Street Ramp (one block north of the IMU). Parking is complimentary in the IMU Ramp for those staying at the Iowa House. The Standard Parking Rate (\$.75 the first hour and \$.90 per hour each additional hour) will be charged to conference participants if they show a Visitor Parking Waiver with their transaction ticket upon leaving the IMU or North Madison Street Ramps. These waivers are available at the conference registration desk when you pick up your conference materials. Without the waiver the rate is higher.

If you arrive after 8:00 a.m. the IMU ramp will have extremely limited availability. We suggest parking in the North Madison Street Ramp or the Old Capitol Ramp on the corner of Burlington and Clinton Streets (3 blocks from the IMU).

#### ACCOMMODATIONS

A block of rooms has been reserved at the Iowa House Hotel, (adjacent to the IMU). The conference rate is \$74/\$79, single or double (\$74 for interior room and \$79 for a river view room). Please call 319.335.3513 to reserve your room. When making your reservation, please indicate you are attending the BIOCATS Conference in order to obtain the conference rate. All rooms will be held in reserve until 9/17/11. High speed internet access is available to participants on request at the time you make your room reservations. Individuals are responsible for their own reservations.

#### TRANSPORTATION

The Eastern Iowa Airport is served by Allegiant Air, American Eagle, Delta, Comair, Northwest, and United Airlines. The Eastern Iowa Airport is located approximately 20 miles north of Iowa City in Cedar Rapids. Shuttle service from the airport is available at a cost of approximately \$38 one way and \$70 round-trip. Taxis are also available for about the same cost.

#### SPECIAL NEEDS

If you have physical or other needs that require special assistance or arrangements, please contact the UI Center for Conferences at (319) 335-4141 or 1-800 551-9029, prior to the conference.

#### POSTERS

Participants are invited to present posters on Biocatalysis/Bioprocessing research. If you wish to submit a poster, please visit our web site for abstract information <a href="www.uiowa.edu/~biocat">www.uiowa.edu/~biocat</a> or contact Mitchell Rotman, Center for Biocatalysis and Bioprocessing, Oakdale Research Park, 2501 Crosspark Road – Suite C100, Coralville, Iowa, 52241-3486. Phone (319) 335-4903; FAX (319) 335-4901. E-mail: <a href="mailto:mitchell-rotman@uiowa.edu">mitchell-rotman@uiowa.edu</a>

## Agenda

#### MONDAY, OCTOBER 17, 2011

4:00 pm Registration - outside Main Lounge, 1st floor IMU 4:00-6:00 Poster set up - Main Lounge, 1st floor IMU Tour of CBB - please register for tour online 4:30 6:00-7:00 Welcome Dinner/Buffet - Main Lounge, 1st floor IMU

7:00-8:00 Ganesh Kishore, Ph.D., CEO, Burrill & Company

"The Convergence of Green and White Biotechnology"

#### TUESDAY, OCTOBER 18, 2011

7:00-8:00 am Registration - outside Main Lounge, 1st floor IMU 7:30 Continental Breakfast - Main Lounge, 1st floor IMU

Program - Bijou, 1st floor IMU Introduction and Welcome. 8:30 Mani Subramanian, Ph.D.,

DEO, Center for Biocatalysis and Bioprocessing Professor, Chemical and Biochemical Engineering

9:00 Harikrishna Kulaveerasingam, Ph.D.,

Head Senior Vice President II, Sime Darby "Oil Palm Genomics-Towards Food Sustainability"

9:45 Tom Beardslee, Ph.D.,

> Senior Director, Renewable Chemicals, Verdezyne, Inc. "Renewable Nylon: Engineering Yeast for the Production of Adipic Acid"

Break - Main Lounge, 1st floor IMU 10:30

Charles Brenner, Ph.D., 10:45

> Professor, Biochemistry Department, University of Iowa "New Steps in NAD Metabolism: Biology, Biotechnology

and Potentials for Further Development"

11:30 **Lunch** - Main Lounge, 1<sup>st</sup> floor IMU

CBB Advisory Board Meeting - South Room 1st floor IMU

Afternoon Session - Bijou, 1st floor IMU

1:15 pm Yoshimi Kikuchi, Ph.D.,

> Associate General Manager, Ajinomoto "Recombinant Protein Expression System of

Corynebacterium"

**CBB/NIH Fellow Presentations** 2:00-3:00

Four 10 minute talks plus 5 minutes for questions,

by selected graduate students.

Poster Session - Main Lounge, 1st floor IMU 3:00-5:00

Wine/hors d'oeuvres

Announcement of Usha Prize winner

5:00 Adjourn



Above: cGMP Downstream Purification Suite

# From Cloning to Large Scale Production of Biomolecules in RPD/cGMP Facilities

Since 1994, the Center for Biocatalysis and Bioprocessing (CBB) laboratory has been providing scale-up operations and solutions to clients interested in producing molecules ranging from ethanol to proteins. CBB's state-of-the-art facilities and objectives-oriented staff work closely with clients to generate successful results. CBB clients range from start-up companies to the largest pharmaceutical/ chemical companies in the world. We have enhanced our offering end to end: from cloning of genes in microbial systems (including baculovirus-based expression), screening of enzymes for various applications, production of chemicals, and cGMP production of proteins for early stage clinical trials. In order to meet the growing demand for microbial fermentation of Industrial products, the CBB has added fermenting capacity and new downstream processing technology. This includes simulated moving bed chromatography (SMB) and continuous counter-current extraction (CCE).

Visit us at www.uiowa.edu/~biocat

For further information contact: Dr. Mani Subramanian, Department Executive Officer Center for Biocatalysis and Bioprocessing 2501 Crosspark Road, Suite C100 Coralville, IA 52241-3486 Ph. (319) 335-4900 / Fax (319) 335-4901

Email: Biocatalysis@uiowa.edu

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### Registration Form 20<sup>th</sup> Annual Center for Biocatalysis and Bioprocessing Conference October 17-18, 2011

The University of Iowa 11-290-01 7-12483

Name	11/11/11		
Organization/Institution			
Mailing Address			
City/State/Zip			6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Phone	E-Mail	27	
Registration Fee Registration Fee after October 1 Student CBB Staff/Faculty Student with Poster	□ \$200 □ \$250 □ \$100 □ \$0 □ \$0		
☐ I plan to attend the CBB Tour on Monday at 4:30pm ☐ I plan to attend Monday evening activities ☐ I plan to present a poster ☐ I request vegetarian meals or ☐ Special dietary restrictions  Check made payable to The UI Center for Conferences Amount enclosed			
Payment by Credit Card:			
Card # Exp. Date			
3 digit security code on back of card Name on Card			
Billing Address of Cardholder			
Four ways to register:   ☐ Mail The University of Iowa Center for Conferences 250 Continuing Educatio		Phone	1/800-551-9029 or 319/335-4141
Iowa City, IA 52242-090		Fax	319/335-4039

Internet <a href="https://www.continuetolearn.uiowa.edu/UIConferences/">https://www.continuetolearn.uiowa.edu/UIConferences/</a>

If this is the first time you have registered on-line with the Center for Conferences you will not have a log-in ID or password until you create your account. Click on the line "create an account" and proceed. If you have questions regarding this process, please contact UICC at the numbers listed above.

Individuals with disabilities are encouraged to attend all University of Iowa sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact the Office of Equal Opportunity and Diversity, 319/335-0705.

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