

# *Agenda*


## Locations

Meals: Heritage Room in the ACES Library 1101 S. Goodwin Ave., Urbana, IL 61801  
 Lectures: Monsanto Room in the ACES Library 1101 S. Goodwin Ave., Urbana, IL 61801  
 Boston Bioprocess Tour & Lecture 13004 W. Pennsylvania Ave., Urbana, IL 61801  
 Demos: IBRL 1300 W. Pennsylvania Ave., Urbana, IL 61801  
 Riggs: 1901 S high Cross Rd., Urbana, IL 61802  
 IHotel: Lincoln Room 1900 S. 1st St., Champaign, IL 61820

## Contacts


Kerri Peters (217) 333-7311  
 Amy Rogers (303) 882-4207

## **Day 1, March 26, 2024**


<b>Time</b>	<b>Topic</b>	<b>Lead</b>
7:30 – 8:00am	<i>Registration &amp; Breakfast</i>	
8:00 – 9:00am	Welcome, Introductions, Course and Industry Overview, Dry Grind Ethanol	Vijay Singh, IBRL
9:00 – 10:00am	New Fermentation Markets & How They Scale	Brian Jacobson, IBRL
10:00 – 10:15am	 <b>Liberation</b> <small>LABS</small> <i>Coffee Break</i>	<b>Sponsored by Liberation Labs</b>
10:15 – 11:00 am	Fermentation Prep, Media, & Sterilization	Matt Stasiewicz, UIUC
11:00 - Noon	Fermentation Controls	Marissa Nyland, IBRL
Noon-12:45	<i>Lunch</i>	
12:45-1:00pm	Transition to Boston Bioprocess	
1:00– 2:00pm	Fermentation Design Lecture (30 min) Fermentation Tour (30 min)	Michael Tai, Boston Bioprocess Johannes Kung (Tour)
2:00 – 2:15pm	Transition to IBRL	
2:15 – 5:00pm	<p style="text-align: center;"><b>Fermentation &amp; Lab Demonstrations</b></p> <p><u>Lab Techniques:</u></p> <ul style="list-style-type: none"> <li>• HPLC</li> <li>• Microscopy &amp; Sterile Lab Technique</li> </ul> <p><u>Fermentation:</u></p> <ul style="list-style-type: none"> <li>• Fermenter Infrastructure</li> <li>• Fermenter Sterility &amp; Sterile Sampling</li> </ul> <p><i>*Includes 30-minute coffee break station</i></p>	Suneet Takhar Nancy McCrone Phil Manning Dave Baudo Kevin Wu Hana Ostrander Michael Spears
5:30pm – 7:30pm	<b>Brewery Tour and Reception</b>	Riggs Brewery

## Spring Fermentation Short Course March 26th- 28th

### Day 2 March 27, 2024

Time	Topic	Lead
7:30 – 8:00am	<i>Breakfast</i>	
8:00 – 9:00am	Best Practices: Bath records, tech transfers, & CMO engagement.	Masaki Yamada, Invert Bio
9:00-10:00 am	Centrifugation	Ryan Fischer, Alfa Laval
10:00 – 10:15am	 <i>Coffee Break</i>	<b>Sponsored by Lubrizol</b>
10:15 – 11:15am	Filtration	Antoine Charbonneau, Applexion
11:15 – 12:15pm	<i>Lunch</i>	
12:15-1:15pm	Spray Drying	Sarah Al-Roubaie, Dedert
1:15-1:45pm	Transition to Pilot Plant	
1:45 – 5:00pm	<p style="text-align: center;"><b>DSP Demonstrations</b></p> <p><u>DSP Demos:</u></p> <ul style="list-style-type: none"> <li>• Centrifugation</li> <li>• Membrane Filtration</li> <li>• Ceramic Membrane</li> <li>• Plate &amp; Frame</li> <li>• Spray Drying</li> </ul> <p><i>*Includes 30-minute coffee break station</i></p>	Alfa Laval Applexion Dedert Smartflow Tom McKenna Bobby Crowley Adam Davis Hope Park Jedi Brown
5:00pm – 7:30pm	<b>Reception at I-Hotel</b>	Research Poster Presentation

### Day 3 March 28, 2024

Time	Topic	Lead
8:30 – 9:30am	<b>Networking Breakfast</b>	
9:30 – 10:30am	Commercial Plant Operational Considerations	Phillip Crawford, Synonym
10:30 – 11:45am	Process Modeling & Economic Analysis	April Hoffart, ADM
11:45 – 12:45pm	<i>Lunch</i>	
12:45-1:45pm	Infrastructure Engineering	David Ziskind
1:45 – 2:00pm	 <i>Coffee Break</i>	<b>Sponsored by Midwest Bioprocessing Center</b>
2:00 – 3:00pm	Strain Design & Lab Automation	Sam Rad, Life Foundry
3:00 – 3:15pm	Certificates & Group Photo	Vijay Singh, IBRL

Thank you to the Sponsors of IBRL's Spring 2024 Fermentation Short Course

