

# *Agenda*


## Locations

Meals: Heritage Room in the ACES Library at 1101 S. Goodwin Ave., Urbana, IL 61801  
 Lectures: Monsanto Room in the ACES Library at 1101 S. Goodwin Ave., Urbana, IL 61801  
 Boston Bioprocess Tour & Lecture: 1304 W. Pennsylvania Ave., Urbana, IL 61801  
 Demonstrations: IBRL 1300 W. Pennsylvania Ave., Urbana, IL 91801  
 Enterprise Works: 60 Hazelwood Drive, Champaign, IL 61820  
 Riggs: 1901 S High Cross Rd., Urbana, IL 61802  
 IHotel: Quad Room 1900 S. 1st St., Champaign, IL 61820

## Contacts

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## **Day 1, October 8, 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	<i>Coffee Break Sponsored by Beckman Coulter</i>	
10:15–11:00am	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	
1:00–2:20pm	Fermentation Design Lecture (40 min) Fermentation Tour (40 min)	Michael Tai, Boston Bioprocess Johannes Kung (Tour)
2:20–2:30pm	Transition to IBRL	
2:30–5:00pm	<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>• Fermentation Process Support</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 Justin Putera Hana Ostrander Phil Manning Kevin Wu
5:30–7:30pm	<b>Brewery Tour and Reception</b>	Riggs Brewery

## 2024 Fall Fermentation Short Course October 8-10, 2024

### Day 2 October 9, 2024

Time	Topic	Lead
7:30–8:00am	<i>Breakfast at Enterprise Works</i>	
8:00-9:00am	Enterprise Works General Tour (30 min) Boston Bioprocess Lab Tour (30 min)	Cynthia Faullin, Enterprise Works Johannes Kung, Boston Bioprocess
9:00-9:30am	Transition to ACES Library	
9:30-10:00am	DSP Intro	Tom Mckenna, IBRL
10:00-11:00am	Centrifugation	Richard Mathies, Alfa Laval
11:00-Noon	Ceramic Membranes Filtration & Sequential Chromatography	Cyril Leenhardt & Jessica Lenis, Applexion
Noon-12:45pm	<i>Lunch</i>	
12:45-1:00pm	Transition to FSHN PPP	
1:00-2:00pm	Spray Drying Demos	Daniel Reyna, Dedert & FSHN-PPP
2:00-2:15pm	Transition to Pilot Plant	
2:15–5:15pm	<b>DSP Demonstrations</b> <u>DSP Demos:</u> <ul style="list-style-type: none"> <li>• Centrifugation</li> <li>• Membrane Filtration</li> <li>• Ceramic Membrane</li> <li>• Smarflow Technology</li> </ul> <i>*Includes 30-minute coffee break station</i>	Alfa Laval Applexion Smartflow Bobby Crowley Adam Davis, Nathan Schumer Tom McKenna Hope Park
5:30pm–7:30pm	<b>Reception at I-Hotel</b>	Research Poster Presentation

### Day 3 October 10, 2024

Time	Topic	Lead
8:00-9:00am	<b>Networking Breakfast</b>	
9:00–10:00am	Data Analysis and Visualization	Tom Treynor, R2DIO
10:00-11:00am	Process Integrations (unit ops and equipment)	Gero Greive, Eridia
11:00-11:15am	<i>Coffee break</i>	
11:15am-12:30pm	Process Modeling & Economic Analysis	Matt Menegay ADM
12:30-12:45pm	Certificates & Group Photo, Boxed Lunches	Vijay Singh, IBRL
1:15-2:15pm	IBRL Tour (optional)	IBRL Staff

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