

Locations

IBRL Lectures and Demos: 1300 W. Pennsylvania Ave., Urbana, IL 61801
 Boston Bioprocess Tour & Lecture: 1304 W. Pennsylvania Ave., Urbana, IL 61801
 Triptych: 1703 Woodfield Dr. Savoy, IL 61874
 I-Hotel: Quad Room 1900 S. 1st St., Champaign, IL 61820

Contacts

Amy Rogers (303) 882-4207
 Jeremy Sechan (630) 613-0096

Thank you to our
sponsor!



Day 1, April 15th, 2025

Time	Topic	Lead
7:30 – 8:00am	<i>Registration & 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</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 – 2:00pm	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;">Fermentation & Lab Demonstrations</p> <p><u>Lab Techniques:</u></p> <ul style="list-style-type: none"> • HPLC • Fermentation Process Support, Sterility & Sterile Sampling <p><u>Fermentation:</u></p> <ul style="list-style-type: none"> • Fermenter Infrastructure • Fermentation Troubleshooting <p><i>*Includes 30-minute coffee break station</i></p>	<p>HPLC Suneet Takhar Nancy McCrone</p> <p>Fermentation Process Support, Sterility & Sterile Sampling Kevin Wu Justin Putera</p> <p>Fermenter Infrastructure Hana Ostrander Adam Davis</p> <p>Fermentation Troubleshooting Phil Manning Mark Tarabey</p>
5:30pm – 7:30pm	Brewery Reception	Triptych Brewery

2025 Spring Fermentation Short Course

April 2025

Day 2 April 16th, 2025

Time	Topic	Lead
8:00 – 8:30am	<i>Breakfast</i>	
8:30-9:00am	DSP Intro	Tom McKenna, IBRL
9:00-10:00am	Centrifugation	Richard Mathies, Alfa Laval
10:00-10:15am	<i>Coffee Break</i>	
10:15-11:15am	Ceramic Membranes Filtration & Sequential Chromatography	Antoine Charbonneau, Applexion
11:15 – 11:45am	iBioFoundry	Steve Lane, UIUC
11:45-12:30pm	<i>Lunch</i>	
12:30-12:45pm	Transition to FSHN PPP	
12:45-1:45pm	Spray Drying	Daniel Reyna, Dedert Joe Melnyk & Jedi Brown, FSHN-PPP
1:45-2:00pm	Transition to Pilot Plant	
2:00 – 5:00pm	<p style="text-align: center;">DSP Demonstrations</p> <p><u>DSP Demos:</u></p> <ul style="list-style-type: none"> • Centrifugation • Membrane Filtration • Microfiltration/Ceramic Membrane • Smartflow Technology <p><i>*Includes 30-minute coffee break station</i></p>	<p>Centrifugation Richard Mathies, Alfa Laval Nathan Schumer, IBRL</p> <p>Membrane Filtration Bobby Crowley, IBRL Ken Ludwig, Alfa Laval</p> <p>Microfiltration Jessica Lenis, Applexion Hope Park, IBRL</p> <p>Smartflow Technology Jason Bell, Smartflow</p>
5:30pm – 7:30pm	Reception at I-Hotel	Research Poster Presentation

Day 3 April 17th, 2025

Time	Topic	Lead
8:00-8:45am	Breakfast with presentation on iFAB	Beth Conerty, IBRL, iFAB
8:45 – 9:30am	Hydrosome Technology	Minto Michael, Hydrosome
9:30-10:15am	Off-Gas Upgrading	Gitanshu Bhatia, Lanza Tech
10:15-10:30am	<i>Coffee Break</i>	
10:30 – 11:15am	Facilities Considerations	Niko Hazbon and Jack Higgins, Merrick
11:15am-12:15pm	Process Modeling & Economic Analysis	Matt Menegay ADM
12:15-12:30pm	Certificates & Group Photo, Boxed Lunches to go or stay	Vijay Singh, IBRL
1:00-1:30pm	IBRL Tour (optional)	Marissa Nyland, IBRL