



September 14 - 17, 2021

Hilton Garden Inn West Des Moines

205 S. 64th Street | West Des Moines, IA 50266



Hotel Registration

Contact the Hilton Garden Inn West Des Moines at **1-515-223-0571** or visit:

https://hiltongardeninn.hilton.com/en/gi/groups/personalized/D/DSMWHGI-LALL-20210912/index.jhtml?WT.mc_id=POG
for reservations. Lallemand Biofuels & Distilled Spirits has negotiated a limited number of traditional king rooms at a discounted rate of \$119.00 plus tax/night.

Reservations must be received by August 22, 2021 to receive the discounted rate.
After August 22, 2021, the rate will increase.

Monday Evening, September 13, 2021

There are no formally scheduled events for Monday evening, but for those wishing to pick up course materials, the registration table will be open from 6 to 7:30 pm.



Day 1 - Tuesday September 14, 2021

Time	Session Title	Speaker
7:30 am – 8:30 am	Registration Open (Breakfast)	
8:30 am – 8:40 am	Introduction to Course	Francois van Zyl Lallemand Biofuels & Distilled Spirits
8:40 am – 8:55 am	Company Overview	Craig Ammann Lallemand Biofuels & Distilled Spirits
8:55 am – 9:20 am	RFA - Biofuels Industry Update	Robert White Renewable Fuels Association
9:20 am – 9:55 am	Feedstock	Shelly Siemonsma Lallemand Biofuels & Distilled Spirits
9:55 am – 10:15 am	BREAK	
10:15 am – 11:00 am	Milling/Grind Optimization	Alex Sexton Lallemand Biofuels & Distilled Spirits
11:00 am – 11:45 am	Starch and Enzyme Biochemistry	Janet Fisher Lallemand Biofuels & Distilled Spirits
11:45 am – 1:00 pm	LUNCH	
1:00 pm – 1:45 pm	Slurry, Cook, and Liquefaction	Tera Stoughtenger Lallemand Biofuels & Distilled Spirits
1:45 pm – 2:30 pm	Yeast Manufacturing and Applications	Caleb Ogden Lallemand Biofuels & Distilled Spirits
2:30 pm – 2:45 pm	BREAK	
2:45 pm – 3:35 pm	Fundamentals of Yeast and Nutrition	Jim Miers Lallemand Biofuels & Distilled Spirits
3:35 pm – 3:55 pm	Breakout Group Sessions #1	LBDS Technical Team
3:55 pm – 4:30 pm	Hands-On Workshop	Ryan Brock Lallemand Biofuels & Distilled Spirits



Day 2 - Wednesday September 15, 2021

Time	Session Title	Speaker
7:30 am – 8:30 am	Breakfast	
8:30 am – 9:15 am	Managing Propagation and Optimization	Spenser Burden Lallemand Biofuels & Distilled Spirits
9:15 am – 10:00 am	Managing Fermentation	Lindsey Mathiesen Lallemand Biofuels & Distilled Spirits
10:00 am – 10:20 am	Breakout Group Sessions #2	LBDS Technical Team
10:20 am – 11:00 am	Bacterial Contamination	Rachel Murdy, Ph. D Lallemand Biofuels & Distilled Spirits
11:00 am – 11:45 am	Plant Hygiene/Contamination Control	Ryan Brock Lallemand Biofuels & Distilled Spirits
11:45 am – 12:00 pm	Take Home Troubleshooting Task	LBDS Technical Team
12:00 pm - 1:00 pm	LUNCH	
1:00 pm – 1:50 pm	Troubleshooting in a Fuel Ethanol Production Facility	Ben Sunderhaus Lallemand Biofuels & Distilled Spirits
1:50 pm - 2:05 pm	Fermentation Troubleshooting Quiz #1	
2:05 pm – 2:25 pm	Breakout Group Sessions #4	LBDS Technical Team
2:25 pm - 3:25 pm	Troubleshooting Exercise #1 - Panel	Ben Sunderhaus Lallemand Biofuels & Distilled Spirits
3:25 pm - 3:40 pm	Break	
3:40 pm - 4:20 pm	Yeast/Lab Biocatalysts	Jim Steele, Ph. D Lallemand Biofuels & Distilled Spirits
4:20 pm - 5:00 pm	Ethanol Production from Cellulosic Substrates	Raquel Rodriguez, Ph. D Lallemand Biofuels & Distilled Spirits
6:00 pm - 9:00 pm	Networking Reception	



Day 2 - Wednesday September 15, 2021

Time	Session Title	Speaker
8:30 am – 9:00 am	Breakfast	
9:00 am – 10:00 am	Yeast Biochemistry	Matt Richards Mascoma
10:00 am – 10:45 am	Enzyme Development	Anda Panaitiu, Ph. D Mascoma
10:45 am – 11:30 am	Oil/Protein Recovery	Jennifer Aurandt-Pilgrim, Ph. D Marquis Energy
11:30 am – 12:00 pm	Biobased Chemicals	Justin Van Rooyen Lallemand Biofuels & Distilled Spirits
12:00 pm – 1:00 pm	LUNCH	
1:00 pm – 1:30 pm	New Technologies	Jennifer Aurandt-Pilgrim, Ph. D Marquis Energy
1:30 pm - 2:15 pm	Energy Inputs	TBD
2:15 pm – 2:45 pm	Carbon Intensity (Sequestration, etc.)	Janet Fisher Lallemand Biofuels & Distilled Spirits
2:45 pm - 3:25 pm	Panel Discussion	
3:25 pm – 3:40 pm	Break	
3:40 pm - 4:20 pm	Yeast/Lab Biocatalysts	Jim Steele, Ph. D Lallemand Biofuels & Distilled Spirits
4:20 pm - 5:00 pm	Ethanol Production from Cellulosic Substrates	Raquel Rodriguez, Ph. D Lallemand Biofuels & Distilled Spirits
6:00 pm - 9:00 pm	Networking Reception	

Biotech Session





Day 3 - Thursday September 16, 2021

Time	Session Title	Speaker
7:30 am – 8:30 am	Breakfast	
8:30 am – 9:20 am	Fundamentals of Distillation	John Cengel KATZEN
9:20 am – 10:00 am	Understanding Fusel Implications	Matt Hawkins, Ph. D Lallemand Biofuels & Distilled Spirits
10:00 am – 10:20 am	Breakout Group Session #4	LBDS Technical Team
10:20 am – 11:10 am	Dehydration/Troubleshooting	John Cengel KATZEN
11:10 am – 12:00 pm	New Technologies	Jennifer Aurandt Pilgrim, Ph. D Marquis Energy
12:00 pm – 1:00 pm	LUNCH	
1:00 pm – 1:45 pm	Water Treatment and Environmental Regulations	Dustin Cunningham Veolia Water Technologies
1:45 pm – 2:00 pm	Fermentation Troubleshooting Quiz #2	
2:00 pm – 2:20 pm	Breakout Group Sessions #5	LBDS Technical Team
2:20 pm – 3:10 pm	Energy Center: Boilers, Dryers & Troubleshooting	Wade Rummel Lallemand Biofuels & Distilled Spirits
3:10 pm – 3:30 pm	BREAK	
3:30 pm – 5:00 pm	Centrifugation	GJ Long Flottweg Separation Technology



Day 4 - Friday September 17, 2021

Time	Session Title	Speaker
7:30 am – 8:30 am	Breakfast	
8:30 am – 9:15 am	Factoring Impacts of Yield Loss	Chris Ashworth Lallemand Biofuels & Distilled Spirits
9:15 am – 9:30 am	Fermentation Troubleshooting Quiz #3	LBDS Technical Team
9:30 am – 10:10 am	Risk Reduction via Proactive EH&S Management	Jay Beckel ERI Solutions
10:10 am – 10:30 am	Breakout Group Session #6	LBDS Technical Team
10:30 am – 11:00 am	Growth Energy	TBD Growth Energy
11:00 am – 11:15 am	Take Home Troubleshooting Task & Hands-on Workshop Results	LBDS Technical Team
11:15 am – 11:30 am	Raffle	
11:30 am – 12:00 pm	Graduation/BFA-Certification	