



**December 6 - 10, 2021**

Hilton Garden Inn West Des Moines  
205 S. 64<sup>th</sup> Street | West Des Moines, IA 50266



# Hotel Registration

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

**web link for reservations will be available closer to event date**

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 November 15, 2021 to receive the discounted rate.  
After November 15, 2021, the rate will increase.

## **Monday Evening**

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.

**SUBJECT TO CHANGE**



# Day 1 - Tuesday December 7, 2021

Time	Session Title	Speaker
7:30 am – 8:30 am	Registration Open (Breakfast)	
8:30 am – 8:50 am	Introduction to Course	<b>Francois van Zyl</b> Lallemand Biofuels & Distilled Spirits
8:50 am – 9:20 am	RFA - Biofuels Industry Update	<b>Robert White</b> Renewable Fuels Association
9:20 am – 9:55 am	Feedstock	<b>Shelly Siemonsma</b> Lallemand Biofuels & Distilled Spirits
9:55 am – 10:15 am	BREAK	
10:15 am – 11:00 am	Milling/Grind Optimization	<b>Alex Sutton</b> Lallemand Biofuels & Distilled Spirits
11:00 am – 11:45 am	Starch and Enzyme Biochemistry	<b>James Fisher</b> Lallemand Biofuels & Distilled Spirits
11:45 am – 1:00 pm	LUNCH	
1:00 pm – 1:45 pm	Starch Cook, and Liquefaction	<b>Lindsey Mathiesen</b> Lallemand Biofuels & Distilled Spirits
1:45 pm – 2:30 pm	Yeast Manufacturing and Applications	<b>Caleb Ogden</b> Lallemand Biofuels & Distilled Spirits
2:30 pm – 2:45 pm	BREAK	
2:45 pm – 3:35 pm	Fundamentals of Yeast and Nutrition	<b>Jim Miers</b> Lallemand Biofuels & Distilled Spirits
3:35 pm – 3:55 pm	Breakout Group Sessions #1	<b>LBDS Technical Team</b>
3:55 pm – 4:30 pm	Hands-On Workshop	<b>Ryan Brock</b> Lallemand Biofuels & Distilled Spirits
6:00 pm – 9:00 pm	NETWORKING RECEPTION	



# Day 2 - Wednesday December 8, 2021

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



# Day 3 - Thursday December 9, 2021

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



# Day 4 - Friday December 10, 2021

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