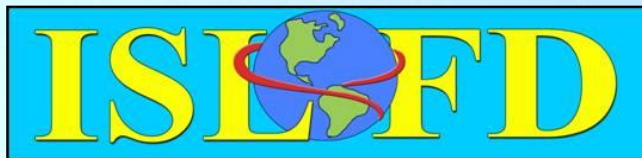


Morning Session*

- 7:30-8:30** **Registration, Breakfast, Set-Up**
- 8:30-8:45** **Jeff Schwegman, Ph.D.**
Kevin Tebrinke, P.E.
Welcoming Remarks, Chapter Update & Session Introduction
- 8:45-9:25** **Prof. Rex Reklaitis, Ph.D.**
Purdue University
Technical and Regulatory Challenges to Innovations in Pharmaceutical Manufacturing
- 9:25-9:55** **Emily Gong**
Physical Sciences, Inc.
Development and Application of Heterogenous Freeze Drying Modeling Software for Process Development
- 9:55-10:45** **Networking, Exhibits, Posters**
- 10:45-11:00** **Bhushan Munjal, Ph.D.**
University of Minnesota
Role of Arginine Salts in Preventing Freezing-Induced Increase in Subvisible Particles in Protein Formulation
- 11:00-11:30** **Vaibhav Kshirsagar**
IMA Life
Design Considerations Affecting Equipment Capability
- 11:30-11:45** **Jim Veale, Ph.D.**
Lighthouse Instruments
TDLAS As A Tool To Meet Annex 1 Requirements for Statistical Sampling of Commercial Batches for Moisture Content and Container Closure Integrity



International Society of Lyophilization
– Freeze Drying, Inc.

www.islyophilization.org

Midwest Chapter Annual Meeting April 14, 2022

Please Join Us!

Attendee: \$99

(Breakfast and Lunch are included)

Venue

Midwest Conference Center
401 West Lake Street
Northlake, IL 60164-2401

Suggested Hotel

Double Tree O'Hare Airport - Rosemont
5460 North River Road
Rosemont, Illinois 60018
Tel: +1-847-292-9100

Register and get our negotiated ISL-FD
hotel rate on our website!

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Afternoon Session*

11:45-1:15 **Lunch, Exhibits, Posters**

1:15- 1:45 **Prof. Eric Munson, Ph.D.**
Purdue University

Characterization of Protein Stability in Formulations Using Solid State NMR Spectroscopy

1:45-2:00 **Tibo Duran, Ph.D. Candidate**
University of Connecticut

Molecular Dynamics Modeling Based on Investigation of Protein Instability During "Non-Isothermal" Freezing Process

2:00-2:30 **LCDR. Steve Rhieu, Ph.D.**
FDA - CDER

Regulatory Assessment on Injectables Manufactured by Lyophilization

2:30-3:15 **Networking, Exhibits, Posters**

3:15-3:30 **Steve Foster**
Pfeiffer

Techniques For Diagnosing Lyophilizer Leaks

3:30-4:00 **Gordon Craig**
Retired Pharma Professional

Strain Gaged Vials for Measuring Strain Due to Thermal Expansion and Crystalline Phase Changes During the Freeze-Drying Process

4:00-4:15 **Jeff Schwegman, Ph.D.**

Thomas Jennings Student Award
Closing Remarks & Audience Feedback

A Complete Lyo Event

Technical Presentations | Posters | Networking Opportunities | Vendor Exhibits

Photo by Mike

*Schedule Subject to Change

