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 Evgenyi Shalaev, Ph.D. Abbvie

Accelerated storage for shelf-life prediction of lyophiles: temperature dependence of degradation of amorphous small molecular weight drugs and proteins

9:25-9:55 Jeff Najarian

Merck & Co. Inc.

How's Your Vision? A Closer Look At the Current State of Automated Inspection of Lyophilized Products

9:55-10:45 Networking, Exhibits, Posters

10:45-11:15 Gayathri Shivkumar, Ph.D. Abbvie

> Harnessing Computational Modeling to Understand and Optimize Pharmaceutical Lyophilization

11:15-11:45 Dimitrios Peroulis, Ph.D. Purdue University Tunable RF/Microwave Freeze

Drying for Biologics 11:45-12:00 Ling Zhu

Liny Zi



University of Connecticut Comparison of Annealing and Controlled Ice Nucleation on Batch Heterogeneity and Lyophilized Cake Porous Structure



International Society of Lyophilization – Freeze Drying, Inc. www.islyophilization.org

Midwest Chapter Annual Meeting April 20, 2023

<u>Please Join Us!</u> Attendee: \$99 (Breakfast and Lunch are included)

<u>Venue</u>

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!

www.islyophilization.org

Afternoon Session*

12:00-1:30 Lunch, Exhibits, Posters

1:30- 2:00 **Prof. Robin Bogner, Ph.D.** University of Connecticut Nuances of Freezing and Their Effects on a Better Measurement of Cake Resistance

2:00-2:15 Kinnari Arte

Purdue University

Understanding the Effects of Drying Techniques on mRNA Lipid Nanoparticles

2:15-2:45 Shipra Malik, Ph.D.

University of Connecticut

Effect of Freeze-Drying Using Cryoprotectants on The Stability of Nucleic Acid Loaded PLGA Nanoparticles

2:45-3:30 Networking, Exhibits, Posters

3:30:-4:00 Maxwell Korang-Yeboah, Ph.D.

FDA-CDER

Regulatory Perspectives on Mathematica Models for Freeze Drying

4:00-4:30 Navpreet Kaur, Ph.D.

Sanofi

Demystifying Fogging in Lyophilized Formulations

4:30-4:45 Jeff Schwegman, Ph.D.

Thomas Jennings Student Award Closing Remarks & Audience Feedback

<u>A Complete Lyo Event</u> Technical Presentations | Posters | Networking Opportunities | Vendor Exhibits

*Schedule Subject to Change