

## 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

8:45-9:30 **Michael Pikal, Ph.D.**  
**University of Connecticut**  
Design Space for Primary Drying in  
Production: Scale-up of the Vial  
Heat Transfer Coefficient

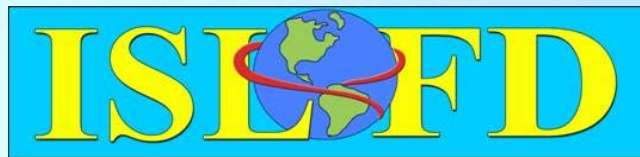
9:30-10:05 **Ed Trappler**  
**LTI**  
Product Formulation  
Characterization by Low  
Temperature Thermal Analysis

10:05-10:45 **Networking, Exhibits, Posters**

10:45-11:20 **TN Thompson**  
**Millrock Technology**  
Studies of Heat Flow During Freeze  
Drying

11:20-11:55 **Steve Schultz, Ph.D.**  
**AbbVie**  
Listen to your Lyo

12:00-1:15 **Lunch, Exhibits, Posters**



International Society of Lyophilization  
– Freeze Drying, Inc.

[www.islyophilization.org](http://www.islyophilization.org)

## Midwest Chapter Annual Meeting April 9, 2015

Please Join Us!

Attendee: \$75

(Breakfast and Lunch are included)

Venue

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

Suggested Hotel

DoubleTree 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](http://www.islyophilization.org)

## Afternoon Session\*

1:15- 2:00 **Steven Nail, Ph.D.**  
**Baxter Biopharma Solutions**  
and  
**Alina Alexeenko, Ph.D.**  
**Purdue University**  
Best Practices in Pharmaceutical  
Drying

2:00-2:35 **Elizabeth Topp, Ph.D.**  
**Purdue University**  
Effect of Lyophilization on Protein  
Aggregation

2:35-3:10 **Al Aksan, Ph.D.**  
**University of Minnesota**  
Microheterogeneity in frozen and  
desiccated formulations

3:10-3:30 **Networking, Exhibits, Posters**

3:30-4:15 **Lisa Hardwick**  
**Baxter Biopharma Solutions**  
A Proposed Approach to a Design  
Space for Secondary Drying

4:15-4:50 **Akhilesh Bhambhani, Ph.D.**  
**Merck**  
Microwave Freeze Drying

4:50-5:00 **Jeff Schwegman, Ph.D.**  
Thomas Jennings Student Award  
Closing Remarks & Audience Feedback

**A Complete Lyo Event**

Technical Presentations | Posters | Networking Opportunities | Vendor Exhibits

\*Schedule Subject to Change

Photo by Mike