## **Morning Session\***



#### **Afternoon Session\***

7:30-8:30 Registration, Breakfast, Set-Up

8:30-8:45 Robert Sever, Ph.D. Kevin Tebrinke, P.E.

> Welcoming Remarks, Chapter Update & Session Introduction

Michael Pikal, Ph.D. 8:45-9:30 University of Connecticut

Destabilization of Proteins During Lyophilization: Causes and Solutions

Alex Herbert 9:30-10:00

Ben Venue Laboratories

Controlled Nucleation at Bench and Pilot Scale

10:00-10:45 Networking, Exhibits, Posters

10:45-11:15 Raj Suryanarayanan, Ph.D. University of Minnesota

> Monitoring Phase Transitions in Frozen Systems and During Freeze-Drying: Potential Implications on

Product Performance

11:15-11:45 Sid Wolfe

Onyx Pharmaceuticals

Ruben Nieblas

McCrone

Using Thermal Microscopy to Develop an Annealing Cycle

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

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

# **Midwest Chapter Annual Meeting** April 11, 2013

Please Join Us!

Attendee: \$75 (Breakfast and Lunch are included) To register, send an email to: islfd@live.com

## Venue

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

Suggested Hotel

SpringHill Suites by Marriott 410 West Lake Street Elmhurst, IL 60126 Tel: 630-782-6300 Use Code "ALGC" or reserve online at: cwp.marriott.com/chiem/islfd Shuttle to Meeting Available

Steven Nail, Ph.D. 1:15-1:40 Baxter BioPharma Solutions

> An Approach to Measuring the Dependence of Drug Product Stability on Residual Moisture Level

1:40-2:05 Jamey Jarman Baxter BioPharma Solutions Establishment of Acceptance Criteria for Leak Testing of Pharmaceutical Freeze Dryers

2:05-2:30 James Hartling Boehringer Ingelheim Vetmedica Vaporized Hydrogen Peroxide: Overview and Applications

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

3:15-3:45 Wanda K. Isaacson, M.S. Zoetis

> Lyophilization Cycle Development -Challenges with Animal Health Vaccines

3:45-4:15 Ronald G. Iacocca, Ph.D. Eli Lilly and Company USP <1660> - The Path Moving

Forward on Glass Quality

4:15-4:30 Robert Sever, Ph.D.

Thomas Jennings Student Award Closing Remarks & Audience Feedback Door Prize

### A Complete Lyo Event