

## 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 **Theodore Randolph, Ph.D.**  
**University of Colorado**

Stability of Lyophilized Human  
Growth Hormone Formulations is  
Determined by Interfacial  
Concentrations

9:30-10:05 **Lindsay Wegiel, Ph.D.**  
**Baxter BioPharma Solutions**  
Importance of Vial Heat Transfer  
Coefficient in Developing a Design  
Space

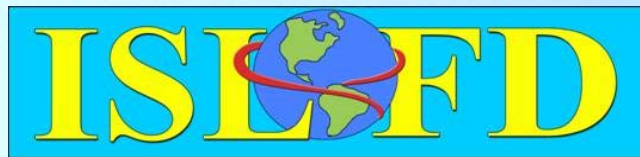
10:05-10:45 **Networking, Exhibits, Posters**

10:45-11:20 **Rui Fang**  
**University of Connecticut**

Direct Observation of a Dynamical  
Temperature (or  $T_g$  in the protein  
molecule) in Dried Proteins?  
Evidence from DSC and H/D  
Exchange. (Presenting for Professor  
Pikal).

11:20-11:55 **Stanley Speaker**  
**Pfizer**

Evolution of freeze-drying of  
biologics in dual chamber container  
closure with respect to heat  
transfer



International Society of Lyophilization  
– Freeze Drying, Inc.

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

## Midwest Chapter Annual Meeting April 10, 2014

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)

*Shuttle to Meeting Available  
(limited seating)*

## Afternoon Session\*

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

1:15-2:00 **Robin Bogner, Ph.D.**  
**University of Connecticut**

Sources of Variation in Heat  
Transfer during Primary Drying:  
Implications for Defect Level and  
Design Space

2:00-2:30 **Pooja Sane**  
**University of Connecticut**

Variation in Local Pressure within the  
Drying Chamber of Freeze-Dryer  
during Primary Drying: Comparison of  
Experimental Measurements with CFD  
Model Predictions

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

3:15-4:00 **Alex Herbert**  
**Kulis Freeze Dry**

Special Topics in Freeze Drying: The  
Art of Preservation

4:00-4:35 **Sunil Potdar**  
**SGS**

Pharmaceutical Development Roadmap  
for Lyophilized Parenteral Drug  
Products intended for ANDA  
(Generic)

4:35-4:50 **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