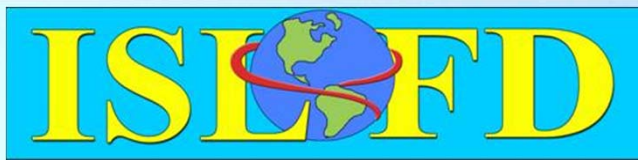


## Morning Session\*



## Afternoon Session\*

- 7:30-8:30** **Registration, Breakfast, & Set-Up**
- 8:30-8:45** **Timothy McCoy**  
**Kevin Tebrinke, P.E.**  
Welcoming Remarks, Chapter Update & Session Introduction
- 8:45-9:30** **Michael Pikal, Ph.D.**  
**University of Connecticut**  
Formulation Heresy: Decreasing the Glass Transition Temperature and Increasing Solid Stability
- 9:30-10:00** **Serguei Tchessalov, Ph.D.**  
**Pfizer**  
Specifics of Heat and Mass Transfer During Freeze-Drying Above Collapse Temperature
- 10:00-10:30** **Elizabeth Topp, Ph.D.**  
**Purdue University**  
Effects of Lyophilization on Protein Drugs
- 10:30-11:00** **Networking, Exhibits, Posters**
- 11:00-11:30** **Hal Baseman**  
**ValSource**  
The Life Cycle Approach to Process Validation: An Industry Perspective on FDA Process Validation Guidance
- 11:30-12:00** **Daniel Steinkellner**  
**GEA**  
Bringing Light Into the Freeze-Dryer
- 12:00-1:30** **Lunch, Exhibits, Posters**

International Society of Lyophilization  
– Freeze Drying, Inc.  
[www.islyophilization.org](http://www.islyophilization.org)

## Midwest Chapter Annual Meeting April 12, 2012

*Please Join Us!*  
*Attendee: \$75*

### Venue

*Holiday Inn Chicago Southwest  
Countryside – Lagrange Hotel  
6201 Joliet Rd  
Countryside, IL 60525  
708-354-4200*

*For room discounts go to:  
<http://tinyurl.com/ISLFDMEETING>*

*Please Pre-Register - Send Check To:*

ISL-FD c/o Kevin Tebrinke  
917 Lexington Way  
Waunakee, WI 53597  
608.849.1619  
[isbfd@live.com](mailto:isbfd@live.com)

*(Breakfast and Lunch are included)*

- 1:30-2:15** **Steven Nail, Ph.D.**  
**Baxter BioPharma Solutions**  
A Design Space Approach to Freeze Dry Cycle Development and Optimization
- 2:15-2:45** **Alina Alexeenko, Ph.D.**  
**Purdue University**  
Fluid Dynamic Modeling for Quantifying and Reshaping the Design Space for Lyophilization
- 2:45-3:15** **Networking, Exhibits, Posters**
- 3:15-3:45** **William Kessler**  
**Physical Sciences**  
Determination of Collapse Temperature in a Relevant Container System using OCT-FDM
- 3:45-4:15** **Prakash Sundaramurthi, Ph.D.**  
**Teva**  
Solute Crystallization During Freeze-Drying: Implications on Product Performance
- 4:15-4:30** **Robert Sever, Ph.D.**  
Closing Remarks & Audience Feedback

### A Complete Lyo Event:

- Technical Presentations
- Posters
- Networking Opportunities
- Vendor Exhibits

\*Schedule Subject to Change