

Freeze Drying of Pharmaceuticals & Biologicals

FREEZE DRYING?

DON'T MISS THIS UNIQUE OPPORTUNITY TO SPEND AN INTERACTIVE DAY WITH DR. HENNING GIESELER, ONE OF THE LEADING LYOPHILIZATION EXPERTS IN THE WORLD, AND HIS TEAM FROM GILYOS AND UNIVERSITY OF ERLANGEN

Dr. Henning Gieseler and the University of Erlangen Freeze Drying Focus Group are considered one of the premier academic groups in the world focused on lyophilization. This one day seminar will provide the novice with a basic freeze drying overview and the expert with up-to-date information on newer topics of interest to the lyophilization scientist. Scheduled question and answer sessions as well as breaks provide attendees with the opportunity to have their own specific questions and concerns addressed.

Equipment and instrumentation designed to be used by the freeze drying scientist will also be on display.

PLEASE SEE THE ATTACHED DETAILED AGENDA FOR ADDITIONAL INFORMATION.

Price: \$150/person Students: \$75 -- Price includes course notes, coffee breaks & lunch.

Venue Details:

Durham, NC	Monday November 14, 2011	Doubletree Guest Suites - Raleigh/Durham 2515 Meridian Pkwy, Durham, NC Tele: (919)361-4660
San Diego, CA	Thursday November 17, 2011	Doubletree Hotel San Diego/Delmar 11915 El Camino Real, San Diego, CA Tele: (858)345-4023
Irvine, CA	Friday November 18, 2011	Doubletree Irvine-Spectrum Hotel 90 Pacifica, Irvine, CA Tele: (949)471-8606

If your participation requires a hotel stay please mention this event and you will receive a special group rate.

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Dates & Locations:	Monday, November 14, 2011: Durham, NC Thursday, November 17, 2011: San Diego, CA Friday, November 18, 2011: Irvine, CA	See attached for more information on this program.
08:30 – 08:45	Welcome Address and Opening Remarks	Mark Shon SP Scientific
08:45 – 09:15	Freeze-Drying, A General Introduction	Ulrike Pohl Freeze-Drying Focus Group University of Erlangen
09:15 – 09:45	Crystalline vs. Amorphous State: Physicochemical Properties of Materials	Dr. Henning Gieseler Freeze- Drying Focus Group University of Erlangen
09:45 – 10:00 10:00 – 10:15	Questions & Answers, Part 1 Coffee Break	
10:15 – 11:00	Basic Principles of Formulation Design for Pharmaceuticals & Biologicals	Ulrike Pohl Freeze-Drying Focus Group University of Erlangen
11:00 – 11:45	Freeze Dry Microscopy (FDM) & Differential Scanning Calorimetry (DSC): Tools to Establish the Integral Link Between Formulation and Process	Dr. Margit Gieseler GILYOS GmbH
11:45 – 12:00 12:00 – 13:00	Questions & Answers, Part 2 Lunch Break	
13:00 – 13:30	The Freezing Stage in Freeze-Drying: Fundamental Concepts	Dr. Henning Gieseler Freeze-Drying Focus Group University of Erlangen
13:30 – 14:00	Assessment of the Cake Inner Morphology by Specific Surface Area Measurements	Dr. Margit Gieseler GILYOS GmbH
14:00 – 14:45	Quality by Design (QbD) in Freeze-Drying	Peter Stärtzel GILYOS GmbH
14:45 – 15:00 15:00 – 15:15	Questions & Answers, Part 3 Coffee Break	
15:15 – 15:45	Process Optimization in the Laboratory: MTM and the SMART Freeze Drying Technology	Dr. Henning Gieseler Freeze- Drying Focus Group University of Erlangen
15:45 – 16:15	Scale-up & Technical Transfer of Freeze-Drying Cycles	Peter Stärtzel GILYOS GmbH
16:15 – 16:30	Questions & Answers, Part 4, Closing Remarks	



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