

ISLFD2026 FUKUOKA

11th International Conference
Fukuoka City, Japan – 24-27 March 2026

Fukuoka International Congress Center

WORKSHOP -March 24

8:00-8:30	REGISTRATION
SESSION I. FUNDAMENTALS & PATs Jos Corver, RheaVita	
8:30-10:30	Fundamentals: Freezing, Primary and Secondary Drying Overview of PATs for Process Monitoring & Control
10:30-11:00	COFFEE BREAK
SESSION II. FORMULATIONS & CHARACTERIZATION Bakul Bhatnagar, Pfizer	
11:00-13:00	Formulation Design of Lyophilized Pharmaceuticals - Keeping it Simple! Understanding The Freeze-Dried Drug Product & the Characterization
13:00-14:00	LUNCH

SESSION III. PROCESS MODELING Serguei Tchessalov, SN Lyophilization, LLC	
14:00-16:00	Freezing Step Design Based on modeling Mathematical Modeling Applied to Primary and Secondary Drying Experimental Determination of Model Parameters
16:00-16:30	COFFEE BREAK
SESSION IV. PROCESS DEVELOPMENT & SCALE-UP Serguei Tchessalov, SN Lyophilization, LLC	
16:30-18:00	Overview on Cycle Development Example of Applications Practice on Cycle Development (e.g., Lyocalculator)

ISLFD CONFERENCE DAY 1-March 25

8:00-8:30	REGISTRATION
8:30-8:40	WELCOME Kevin TEBRINKE, ISLFD President
8:45-9:15	Keynote. <i>The Evolution of Pharma Production: Continuous Technologies Advancing Oral Solids, Biopharma, and Freeze-Drying — A Critical Look at Reality, Potential,</i> Thomas DE BEER , Ghent University
SESSION I. EMERGING TECHNOLOGIES [Chair: tbD]	
9:15-9:35	<i>Advancing Unit-Dose Freeze-Drying of Biological Drugs: From Batch to Continuous Processing Through the Suspended Vial Concept</i> Roberto PISANO , Politecnico di Torino
9:35-9:55	<i>Development of a newly designed closed continuous spray freeze-drying (SFD) system and evaluation of its drying characteristics</i> Shuji Morimoto , MORIMOTO-PHARMA CO.
9:55-10:15	<i>Harvesting Microwave Energy for Advanced Manufacturing of Pharmaceuticals: Applications to Lyophilization and Thawing</i> Alina ALEXEENKO , Purdue University
10:15-10:35	<i>Case Study: Implementation of Control Ice Nucleation Technology for Biologics Drug</i> Yusuke KOIKE , Takeda
10:35-11:00	PANEL DISCUSSION
11:00-11:40	COFFEE BREAK (POSTER PRESENTATION & SPONSORS' EXHIBITION)
SESSION II. DIGITALIZATION & EQUIPMENT [Chair: tbD]	
11:40-12:00	<i>Spray Freeze Drying – Process Considerations and Case Studies of Pharmaceutical Developments</i> Bernhard LUY (Meridion) & Shuichi OTAKE (Shionogi & Co Ltd)
12:00-12:20	<i>Coupled 3D Equipment- and Vial-Scale Models for Predictive Freeze-Drying</i> Matej ZADRAVEC , University of Maribor
12:20-12:40	<i>Beyond Compliance: Smart Qualification Strategies for Next-Generation Lyophilizers</i> Maik GUTTZEIT
12:40-13:00	PANEL DISCUSSION
13:00-14:30	LUNCH
14:30-21:00	NETWORKING EVENT (Yanagawa Tour)



Fukuoka International Congress Center

Access from Hakata Station By Bus (Recommended)

- **Bus Stop:** "F" bus stop at Hakata St.
- **Bus Numbers:** No. 88, No. 99, or BRT.
- **Destination:** Get off at the "Kokusai Kaigijo Sun Palace-mae" (International Congress Center/Sunpalace-mae) bus stop.

Other Options

- **By Subway:** Gofukumachi Station (Kuko Line).
- **On Foot:** About a 27-minute walk from JR Hakata Station.

ISLFD CONFERENCE DAY 2-March 26

8:30-9:00	Keynote. <i>Less-known risks of freezing protein solutions: mechanical stresses, cold denaturation, and other factors</i> Evgenyi SHALAEV , AbbVie
SESSION III. FUNDAMENTALS [Chair: tbD]	
9:00-9:20	<i>Impact of Component Miscibility in Frozen Solutions: Biopharmaceuticals and Drug Delivery Formulations</i> Ken-ichi IZUTSU , International University of Health and Welfare
9:20-9:40	<i>Supersaturation of freeze-dried sugars in alcohols and comparative analysis of the physicochemical properties of amorphous sugars dried from water and alcohols</i> Koreyoshi IMAMURA , Okayama University
9:40-10:00	<i>Where is the Water? Correlating water activity to residual water content and</i> Derek DUNCAN , Light Instruments
10:00-10:20	PANEL DISCUSSION
10:20-11:00	COFFEE BREAK
11:00-11:30	Keynote. <i>Setting the Stage for Success: Why Annealing Matters in Freeze-Drying</i> Robin BOGNER, University of Connecticut
SESSION IV. PROCESS ANALYTICAL TECHNOLOGIES [Chair: tbD]	
11:30-11:50	<i>Real-time monitoring of freezing based on optical and shelf inlet/outlet temperature difference methods</i> Jean-Rene AUTHELIN (Sanofi) & Fiora ARTUSIO (Politecnico di Torino)
11:50-12:10	<i>Optimization and Transfer of Robust Freeze-Drying Protocols</i> Brecht VANBILLEMONT , Coriolis
12:10-12:30	<i>Predicting cake resistance via micro-CT imaging: a phenomenological approach</i> Israel B. SEBASTIÃO , Pfizer
12:30-12:50	PANEL DISCUSSION
12:50-14:00	LUNCH
14:00-16:00	SPOTLIGHT POSTER PRESENTATIONS & SPONSORS' EXHIBITION
18:00-23:00	GALA DINNER (THE STRINGS HAKATA)

March 27, 2026

8:30-9:00	Keynote. <i>Conductance Modeling Approach for Evaluating the Dynamic Characteristics of a Freeze-Dryer</i> Kyuya NAKAGAWA , Kyushu University
SESSION V. PROCESS ANALYTICAL TECHNOLOGIES [Chair: tbD]	
9:00-9:20	<i>The use of AI and Machine Learning Algorithms in Lyophilization</i> Sam WOODYARD , Biopharma
9:20-9:40	<i>Leveraging Real Time Vapor Mass Flow Measurements during lyophilization process</i> Pere TAPIOLAS , Comser
9:40-10:00	<i>Turning NIR and Raman Spectroscopy into Decisions: PAT Algorithms for Freeze-Drying Quality Assurance</i> Davide FISSORE , Politecnico di Torino
10:00-10:20	PANEL DISCUSSION
10:20-10:50	COFFEE BREAK
SESSION VI. FREEZE-DRYING OF NEW MODALITIES [Chair: tbD]	
10:50-11:10	<i>Coupling Mechanistic Lyophilization Models with a Multi-Agent AI Interrogation Engine for</i> Seonkyu YOON , Umass Lowell
11:10-11:30	<i>Optimization of Freeze-Drying and Moisture Stability of Encapsulated Lactobacillus acidophilus KBL409 for Enhanced Gastrointestinal Viability.</i> Mi-Jung CHOI , Konkuk University
11:30-11:50	<i>From ice to structure: how freezing conditions shape dried materials</i> Jonghwi LEE , Chung-Ang University
11:50-12:10	<i>Preserving Faecal Microbiotherapies by freeze drying: Strategy for the comparability of Frozen vs Lyophilized formulation. Comprehensive analyses—including metagenomics, revivification assays, metabolomics, phenotypic characterization, and clinical outcome</i> Sophie DECLOMESNIL , Maat Pharma
12:10-12:40	PANEL DISCUSSION
12:40-13:10	AWARD CEREMONY & CLOSING REMARKS Kevin TEBRINKE , ISLFD President
13:10-14:00	LUNCH



Yanagawa tour (March 25)

Participation is maximum 55 people, and registration will close once capacity is reached.

14:30 Departure (Conference venue)
16:30 Arrive in Yanagawa
17:30 Boat ride
18:30 Dinner
20:00 Departure (Yanagawa)
21:30 Arrival at Hakata Station



Gala dinner at The Strings Hakata (March 26)

All ISLFD participants are welcome!
11th floor KITTE Hakata station

