

# 11<sup>th</sup> International Conference Fukuoka City, Japan – 24-27 March 2026

## WORKSHOP, MARCH 24

- FUNDAMENTALS & PATs
- FORMULATIONS & CHARACTERIZATION
- PROCESS MODELING
- PROCESS DEVELOPMENT & SCALE-UP

## CONFERENCE, MARCH 25-27

- EMERGING TECHNOLOGIES
- FUNDAMENTALS OF LYOPHILIZATION
- PROCESS ANALYTICAL TECHNOLOGIES
- PROCESS DEVELOPMENT & SCALE-UP
- DIGITALIZATION & EQUIPMENT
- FREEZE-DRYING OF NEW MODALITIES

## REGISTRATION:

**Early bird registration: before 15 FEB**

Regular registration available until the conference date



## VENUE:

### Fukuoka International Congress Center

#### Access from Hakata Station

##### By Bus (Recommended)

- **Bus Stop:** Go to the "F" bus stop in front of the Hakata Station Center Building.
- **Bus Numbers:** Take bus No. 88, No. 99, or the BRT (Articulated Bus).
- **Destination:** Get off at the "Kokusai Kaigijo Sun Palace-mae" (International Congress Center/Sunpalace-mae) bus stop.
- **Duration/Fare:** The journey takes approximately 10-20 minutes depending on traffic and costs around 230-260 yen.

##### Other Options

- **By Subway:** Take the subway from Hakata Station to **Gofukumachi Station** (Kuko Line). From there, the Congress Center is about a 12-minute walk.
- **By Taxi:** A taxi ride is the fastest option, taking about 10 minutes from Hakata Station, but the travel time and fare will depend on traffic conditions.
- **On Foot:** The center is about a 27-minute walk from JR Hakata Station for those who prefer to walk and sightsee.



WORKSHOP - March 24, 2026	
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 Tool Box
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)

ISLFD2026 CONFERENCE	
March 25, 2026	
7:45-8:15	REGISTRATION
8:15-8:30	WELCOME Kevin TEBRINKE, ISLFD President
8:30-9:00	<b>Keynote.</b> <i>The Evolution of Pharma Production: Continuous Technologies Advancing Oral Solids, Biopharma, and Freeze-Drying — A Critical Look at Reality, Potential,</i> <b>Thomas DE BEER</b> , Ghent University
SESSION I. EMERGING TECHNOLOGIES [Chair: tbD]	
9:00-9:20	<i>Advancing Unit-Dose Freeze-Drying of Biological Drugs: From Batch to Continuous Processing Through the Suspended Vial Concept</i> <b>Roberto PISANO</b> , Politecnico di Torino
9:20-9:40	<i>Spray Freeze Drying – Process Considerations and Case Studies of Pharmaceutical Developments</i> <b>Bernhard LUY</b> (Meridion) & <b>Shuichi OTAKE</b> (Shionogi & Co Ltd)
9:40-10:00	<i>Harvesting Microwave Energy for Advanced Manufacturing of Pharmaceuticals: Applications to Lyophilization and Thawing</i> <b>Alina ALEXEENKO</b> , Purdue University
10:00-10:20	<i>Case Study: Implementation of Control Ice Nucleation Technology for Biologics Drug</i> <b>Yusuke KOIKE</b> , Takeda
10:20-10:40	PANEL DISCUSSION
10:40-11:10	COFFEE BREAK
SESSION II. DIGITALIZATION & EQUIPMENT [Chair: tbD]	
11:10-11:30	<i>The intersection of Filling, Lyo and VI offline capabilities for de-risking Tech transfers</i> <b>Arnab GANGULY</b> , Amgen
11:30-11:50	<i>Coupled 3D Equipment- and Vial-Scale Models for Predictive Freeze-Drying</i> <b>Matej ZADRAVEC</b> , University of Maribor
11:50-12:10	<i>Beyond Compliance: Smart Qualification Strategies for Next-Generation Lyophilizers</i> <b>Maik GUTTZEIT</b>
12:10-12:30	PANEL DISCUSSION
12:30-13:30	LUNCH
15:00-23:00	NETWORKING EVENT (Conference tour)

March 26, 2026	
8:30-9:00	<b>Keynote.</b> <i>Less-known risks of freezing protein solutions: mechanical stresses, cold denaturation, and other factors</i> <b>Evgenyi SHALAEV</b> , AbbVie
SESSION III. FUNDAMENTALS [Chair: tbD]	
9:00-9:20	<i>Impact of Component Miscibility in Frozen Solutions: Biopharmaceuticals and Drug Delivery Formulations</i> <b>Ken-ichi IZUTSU</b> , 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> <b>Koreyoshi IMAMURA</b> , Okayama University
9:40-10:00	<i>Where is the Water? Correlating water activity to residual water content and</i> <b>Derek DUNCAN</b> , Light Instruments
10:00-10:20	PANEL DISCUSSION
10:20-11:00	COFFEE BREAK
11:00-11:30	<b>Keynote.</b> <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> <b>Jean-Rene AUTHELIN</b> (Sanofi) & <b>Flora ARTUSIO</b> (Politecnico di Torino)
11:50-12:10	<i>Optimization and Transfer of Robust Freeze-Drying Protocols</i>  <b>Brecht VANBILLEMONT</b> , Coriolis
12:10-12:30	<i>Predicting cake resistance via micro-CT imaging: a phenomenological approach</i> <b>Israel B. SEBASTIÃO</b> , Pfizer
12:30-12:50	PANEL DISCUSSION
12:50-14:00	LUNCH
14:00-16:00	SPOTLIGHT POSTER PRESENTATIONS & SPONSORS' EXHIBITION
16:00-23:00	NETWORKING EVENT (GALA DINNER, THE STRINGS HAKATA)

March 27, 2026	
8:30-9:00	<b>Keynote.</b> <i>Conductance Modeling Approach for Evaluating the Dynamic Characteristics of a Freeze-Dryer</i> <b>Kyuya NAKAGAWA</b> , Kyushu University
SESSION IV. PROCESS ANALYTICAL TECHNOLOGIES [Chair: tbD]	
9:00-9:20	<i>The use of AI and Machine Learning Algorithms in Lyophilization</i> <b>Kevin WARD</b> , Biopharma
9:20-9:40	<i>Leveraging Real Time Vapor Mass Flow Measurements during lyophilization process</i> <b>Pere TAPIOLAS</b> , Comser
9:40-10:00	<i>Turning NIR and Raman Spectroscopy into Decisions: PAT Algorithms for Freeze-Drying Quality Assurance</i> <b>Davide FISSORE</b> , Politecnico di Torino
10:00-10:20	PANEL DISCUSSION
10:20-10:50	COFFEE BREAK
SESSION VII. FREEZE-DRYING OF NEW MODALITIES [Chair: tbD]	
10:50-11:10	<i>Optimization of Freeze-Drying and Moisture Stability of Encapsulated Lactobacillus acidophilus KBL409 for Enhanced Gastrointestinal Viability.</i> <b>Mi-Jung CHOI</b> , Konkuk University
11:10-11:30	<i>From ice to structure: how freezing conditions shape dried materials</i> <b>Jonghwi LEE</b> , Chung-Ang University
11:30-11:50	<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> <b>Sophie DECLOMESNIL</b> , Maat Pharma
11:50-12:15	PANEL DISCUSSION
12:15-13:00	AWARD CEREMONY & CLOSING REMARKS <b>Kevin TEBRINKE</b> , ISLFD President
13:00-14:00	LUNCH

# CONFERENCE EVENTS

- ▣ Invited lectures
- ▣ Panel discussions
- ▣ Poster presentations
- ▣ Sponsors’ exhibition

# Networking Events

- ▣ Yanagawa Boat Tour (March 25)
- ▣ Gala Dinner (March 26)

