

ISLFD2026 FUKUOKA

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

Fukuoka International Congress Center

WORKSHOP -March 24

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| 8:00-8:30 | REGISTRATION | SESSION III. PROCESS MODELING Serguei Tchessalov, SN Lyophilization, LLC | |
| SESSION I. FUNDAMENTALS & PATs Jos Corver, RheaVita | | 14:00-16:00 | Freezing Step Design Based on modeling Mathematical Modeling Applied to Primary and Secondary Drying Experimental Determination of Model Parameters |
| 8:30-10:30 | Fundamentals: Freezing, Primary and Secondary Drying Overview of PATs for Process Monitoring & Control | 16:00-16:30 | COFFEE BREAK |
| 10:30-11:00 | COFFEE BREAK | SESSION IV. PROCESS DEVELOPMENT & SCALE-UP Serguei Tchessalov, SN Lyophilization, LLC | |
| SESSION II. FORMULATIONS & CHARACTERIZATION Bakul Bhatnagar, Pfizer | | 16:30-18:00 | Overview on Cycle Development Example of Applications Practice on Cycle Development (e.g., LyoCalculator) |
| 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 | | |

ISLFD CONFERENCE DAY 1-March 25

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| 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.** *Less-known risks of freezing protein solutions: mechanical stresses, cold denaturation, and other factors*
Evgenyi SHALAEV, AbbVie

SESSION III. FUNDAMENTALS [Chair: tbD]

9:00-9:20 *Impact of Component Miscibility in Frozen Solutions: Biopharmaceuticals and Drug Delivery Formulations*
Ken-Ichi IZUTSU, International University of Health and Welfare

9:20-9:40 *Supersaturation of freeze-dried sugars in alcohols and comparative analysis of the physicochemical properties of amorphous sugars dried from water and alcohols*
Koreyoshi IMAMURA, Okayama University

9:40-10:00 *Where is the Water? Correlating water activity to residual water content and*
Derek DUNCAN, Light Instruments

10:00-10:20 PANEL DISCUSSION

10:20-11:00 COFFEE BREAK

11:00-11:30 **Keynote.** *Setting the Stage for Success: Why Annealing Matters in Freeze-Drying*
 Robin BOGNER, University of Connecticut

SESSION IV. PROCESS ANALYTICAL TECHNOLOGIES [Chair: tbD]

11:30-11:50 *Real-time monitoring of freezing based on optical and shelf inlet/outlet temperature difference methods*

Jean-Rene AUTHELIN (Sanofi) & **Fiora ARTUSIO** (Politecnico di Torino)

11:50-12:10 *Optimization and Transfer of Robust Freeze-Drying Protocols*

Brecht VANBILLEMONT, Coriolis

12:10-12:30 *Predicting cake resistance via micro-CT imaging: a phenomenological approach*
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)



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

Please register from following link.



ISLFD CONFERENCE DAY 3-March 27

8:30-9:00 **Keynote.** *Conductance Modeling Approach for Evaluating the Dynamic Characteristics of a Freeze-Dryer*
Kyuya NAKAGAWA, Kyushu University

SESSION IV. PROCESS ANALYTICAL TECHNOLOGIES [Chair: tbD]

9:00-9:20 *The use of AI and Machine Learning Algorithms in Lyophilization*
Kevin WARD, Biopharma

9:20-9:40 *Leveraging Real Time Vapor Mass Flow Measurements during lyophilization process*
Pere TAPIOLAS, Comser

9:40-10:00 *Turning NIR and Raman Spectroscopy into Decisions: PAT Algorithms for Freeze-Drying Quality Assurance*
Davide FISSORE, 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 *Optimization of Freeze-Drying and Moisture Stability of Encapsulated Lactobacillus acidophilus KBL409 for Enhanced Gastrointestinal Viability.*
Mi-Jung CHOI, Konkuk University

11:10-11:30 *From ice to structure: how freezing conditions shape dried materials*
Jonghwi LEE, Chung-Ang University

11:30-11:50 *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*
Sophie DECLOMESNIL, Maat Pharma

11:50-12:15 PANEL DISCUSSION

12:15-13:00 AWARD CEREMONY & CLOSING REMARKS

Kevin TEBRINKE, ISLFD President

13:00-14:00 LUNCH



Gala dinner at The Strings Hakata (March 26)

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

