



Engineering the Future of Lyophilization: From Formulation Science to Smart Manufacturing

29 - 30 of June, 2026
Hotel Andreola Central
Milan



INTRODUCTION



Lyophilization is becoming a critical enabler for the future of pharmaceutical and biotechnological products, particularly as the industry shifts toward complex biologics, high-value injectables and personalized therapies. Increasing molecular instability, tighter regulatory expectations and growing pressure on manufacturing efficiency demand a fully integrated, end-to-end approach to freeze-drying. From early formulation development and cycle design to equipment selection, scale-up and troubleshooting, lyophilization must evolve from a standalone process into a strategic capability. At the same time, digitalization, advanced process analytics and data-driven control are redefining how robustness and quality are achieved. Equipment manufacturers, academic research and industrial experts are jointly shaping a new generation of lyophilization technologies. These innovations aim to reduce cycle times, improve batch consistency and enhance sustainability while maintaining the highest patient safety standards. This event brings together leading voices across the value chain to explore current challenges and future opportunities. Through expert presentations and real-world case studies, participants will gain insight into how lyophilization will support the next wave of biopharmaceutical innovation. The future of freeze-drying is being built today.

ORGANIZING COMMITTEE

- Sarah Springer, Syntegon
- Mirko Bocassini, Syntegon
- Roberto Pisano, Politecnico di Torino
- Filippo Canrossi, Chiesi / PDA Italy Steering Committee
- Giovanni Cosmi, Senior Consultant - PDA Italy Chapter
- Filippo Trionfera, BSP Pharmaceuticals / PDA Italy Chapter President
- Mirko Gabriele, InfiniteVision & / PDA Italy Chapter Past-President
- Claudio Puglisi, Entourage / PDA Italy Chapter Bord
- Francesca Selmin, UNIMI / PDA Italy Chapter Secretary
- Lucia Ceresa, Consultant / PDA Italy Chapter President-Elect

AGENDA DAY 1 – June 29th 2026



- 10.30-11:00 **Students section – Welcome and Introduction**
- 11:00-11:30 ***Leadership in pharma***
- 11:30-12:00 ***Presentations 1 – 2 – 3***
- 12:00-12:30 ***Q&A***
- 12:00-13:00 Arrival, registration **DAY-1** & Welcome buffet at the congress venue.
- 13:00-13:15 *Opening remarks and proposed discussion topics DAY-1,*
Filippo Trionfera - BSP Pharma. & PDA Italy Chapter' President
- 13:15-13:35 *Welcome and Institutional Introduction to the congress, Mirko*
Bocassini & Sarah Springer - Syntegon
- 13:35-14:00 *Inside pharmaceutical lyophilization: principles, process design,*
practical insights and Regulatory Perspectives, Raffaella Sardelli -
AIFA Ufficio Ispezioni ed Autorizzazioni GMP Medicinali
- 14:00-14:25 *Failure-Driven Design: Anticipating Risk in formulation and*
lyophilization through expertise and advance modeling Irene
Oddone - BSP
- 14:25-14:50 *Cycle Design Optimization for High-Value Biopharmaceuticals,*
Sulpizi Adamo - Chiesi
- 14:50-15:20 *Panel discussion - Chair: Giovanni Cosmi - PDA Italy Chapter*
- 15:20-16:00 **Coffee Break with the sponsors & technologies**
- 16:00-16:20 *From filling to freeze-drying: Capabilities and design specifics of*
integrated Syntegon vial lines, Sarah Springer - Syntegon
- 16:20-18:20 ***Virtual Tour by Syntegon***
- 18:20-18:30 *Wrap-up and remarks from DAY-1, Francesca Selmin - UNIMI /*
PDA Italy Chapter
- 19:30-22:00 **Networking dinner at Andreola Hotel**

AGENDA DAY 2 – June 30th 2026



- 8:30 – 8:45 Arrival, registration **DAY-2**
- 8:45-09:00 *Opening remarks and proposed discussion topics **DAY-2**, **Mirko Gabriele - InfiniteVision & PDA Italy Chapter**’ Past-President*
- 09.00-09:25 *RTU Nested Vials for Improved Lyophilization Efficiency outcome, **Maria Chiara Frare - Stevanato***
- 09:25-9:35 **Sponsors’ technologies & capabilities presentations**
- 09:35-10:00 *Troubleshooting in lyophilization, **Maite Harguindeguy - Coriolis Pharma***
- 10:00-10:25 *Lyophilization Equipment: Design Requirements and Technical Solutions, **Anthony Cannon - MSD***
- 10:25-11:00 **Coffee Break with the sponsors & technologies**
- 11:00-11:25 *Freezing as a Design Variable in Pharmaceutical Lyophilization, **Roberto Pisano - POLITO***
- 11:25-11:50 *From manufacturing process to Automated Visual Inspection: the very last Lyo quality checkpoint, **Carmine Falba - AVI Pharma Consulting***
- 11:50 – 12:30 *Panel discussion - Chair: **Francesca Selmin - UNIMI / PDA Italy Chapter***
- 12:30-13:00 ***PDA Contest: Winner Prizes**
POLITO student contest, Microwave mediated vial moisture content analysis, **Giacomo Lazzerini & Carmelo Parisi***
- 13:00–14:00 **Lunch with the sponsors & technologies**
- 14:00 -14:25 *Where Is the Water? Correlating Water Activity to Residual Water Content and Stability, **Derek Duncan - Lighthouse***
- 14:25- 14:50 *Data-Driven Lyophilization: PAT, Sensors and Advanced Process Control, **Bruno Staiano & Denis Tixier - Kaye | Amphenol***
- 14:50 – 15:15 *Key engineering and process challenges for freeze dryers under Annex 1 **Marco Alberio - Ellab***
- 15:15 – 16:00 *Panel discussion - Chair: **Filippo Canrossi - Chiesi / PDA Italy Chapter***
- 16:00 - 16:15 *Wrap up of **DAY-2** and final closing remarks, **Lucia Ceresa - Consultant / PDA Italy Chapter***

GENERAL INFORMATION

LANGUAGE

The official language of the event is English and all presentations (.ppt slides) are in English.

CONGRESS VENUE

*Hotel Andreola Central
Via Domenico Scarlatti, 24, 20124, Milan*



VIRTUAL TOUR

Virtual Facility Tour by Syntegon



NETWORKING DINNER

Hotel Andreola Central - Via Domenico Scarlatti, 24, 20124, Milan

HOTEL

Participants are responsible for their own travel costs and accommodation

PDA Events & Organizing Secretariat



Centro Congressi Internazionale s.r.l.
Via Guarino Guarini, 4 – 10123 Torino
Tel. 011/2446911 - e-mail: pda@pda-it.org
web: www.pda-it.org - [linkedin.com/company/pda-italy](https://www.linkedin.com/company/pda-italy).

CALL for ABSTRACT



PDA Italy Chapter welcomes the submission of research abstracts on topics related to lyophilization in pharma. Scientific posters are an opportunity to share your research and contribute to the body of pharmaceutical science. They are also a great way to find collaborators, attract recruiters and qualify for awards.

IMPORTANT DATEs

April 1	Open for submission
May 25 June 3	Deadline for Poster Abstract Submission
May 29 June 8	Abstract Accept/Reject notifications issued
June 10	Deadline registration for poster presenters
June 10	Deadline for upload e-posters with narration
June 11	Open for voting: best e-posters
June 17	Notification of best e-posters
June 29	Podium presentations of the three best e-poster and award

GENERAL INFORMATION (RULES)

- All Research abstract and presentations must be in **English**
- All submissions, excluding section headers, title, author information and references, should be no longer than **350 words**. The instructions can be downloaded [here](#).
- Submitters must agree to disclose **AI-Assisted Content** in the submission form. Failure to disclose submissions and/or accepted materials may result in its withdrawal from PDA Italy Chapter
- PDA Italy Chapter recommends the designated **presenting author** submit the abstract. The submitter is responsible for obtaining the necessary permissions and clearances for all research, information, and graphics used in both the abstract and the poster, and the submitter will receive all abstract and poster-related communications. PDA Italy Chapter assumes no liability or responsibility for the publication of any material that is submitted.
- **Registration** is required for all accepted presenters. Expenses associated with submissions and presentations are the responsibility of the presenter.
- All posters will be presented digitally — no printed posters are allowed. Authors are encouraged to add audio narrations to each section of their poster. This will help registrants grasp the research presented in the poster before contacting the author for additional information and discussion. We recommend you keep your narrations as brief as 5 min.

GENERAL INFORMATION



HOW TO REGISTER

For registration, general information, and payment enquiry, please visit :

<https://www.pda-it.org/engineering-the-future-of-lyophilization-from-formulation-science-to-smart-manufacturing>

REGISTRATION FEES (VAT 22% included)

FREE of charge for AIFA & Regulators

€ 122,00 University

€ 200,00 Young Professional

€ 366,00 **PDA** and **AFI** members (**1-day only**: € 219) + 1 free pass* for a second colleague (concurrent registration)

€ 280,00 for **new PDA** members (new membership January-February)

€ 549,00 **PDA** and **AFI NON-members** (1-day only: € 329) + 1 free pass* for a second colleague (concurrent registration)

€ 732,00 for a **third colleague*** for the conference at the same time
(**PDA** and **AFI NON-members**)

Early bird discount: 10% for confirmation received by May 1st, 2026.

Registration fee includes badge, program, admission to the scientific sessions, certificate of attendance, coffee breaks, lunches, networking dinner. Contact CCI Organizing Secretariat for any information regarding the free pass and transfers.

METHOD OF PAYMENT

Bank Transfer Beneficiary: Centro Congressi Internazionale srl

Bank: INTESA SANPAOLO SPA

Mandatory causal: **267051** + Name/Surname of the participant and Company

IBAN: IT08X0306901000100000067336

BIC SWIFT: BCITITMM

Copy of the bank transfer should be sent to the CCI Organizing Secretariat at pda@pda-it.org.

After receiving the payment, the Organizing Secretariat (Centro Congressi Internazionale srl) will issue a regular invoice.

SPONSORSHIP OPPORTUNITIES

Exhibition and Sponsorship Opportunities are available. Contact CCI Organizing Secretariat at pda@pda-it.org to know the opportunities for this event.

Direct competitors of the host manufacturing technology, will not be able to participate at the virtual guided tour.

SPONSOR



A SPECIAL THANKS TO THE SPONSORS FOR THEIR CONTRIBUTION
TO THE REALIZATION OF THE CONGRESS

PLATINUM SPONSOR:

SYNTEGON

