

From: Camilla Smith <pharma@smiconferences.co.uk>
To: Kester, Tonykester@aging.sc.gov
Date: 2/20/2017 4:22:24 AM
Subject: Boehringer Ingelheim Reports the Essentials of Biological Freeze Drying | Also includes updates from Pfizer, Sanofi, Roche, MedImmune, GSK, Merck

Pharmaceutical Freeze Drying Technology 2017

5th Annual Conference: 8th May & 9th May | Interactive Workshop: 10th May

Copthorne Tara Hotel, London, UK

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**** £200 early bird ends 28th Feb! [Sign up here](#) ****

THE NEED FOR ROBUST CAPABILITIES IN PHARMACEUTICAL FREEZE DRYING

Dear Mr Tony Kester,

An understanding in critical factors such as drug consistency, product quality, biological stability and improved formulations, are vital to ensure productivity and marketable success through pharmaceutical lyophilisation. Following on from this, SMI's 5th annual conference on [Pharmaceutical Freeze Drying](#) will once again gather an audience of principle scientists and industry specialists to discuss the latest technological innovations when it returns to Central London on 8th and 9th May.

SPOTLIGHT: FREEZE DRYING OF BIOLOGICS - THE ESSENTIALS

Arm yourself with the tools to implement process efficiency and commercial success whilst maintaining product quality as **Patrick Garidel**, Associate Director of Protein Sciences from **Boehringer Ingelheim**, provides an opening address on the essentials of biological freeze drying.

Discover key considerations in process development; primary packaging; lyophilisate characterisations; and overcome common industry hurdles in product stability. [View presentation details](#)

WHO ELSE WILL YOU MEET?

Through expert guidance from an industry KOL's, the programme for Pharmaceutical Freeze Drying is shaping up to be the biggest and best event to date!

FEATURED TALKS INCLUDE: NIBSC- MHRA | Pfizer | Sanofi | Roche | MedImmune | Merck | Bayer | Bristol-Myers Squibb | Novo Nordisk | Roche | Genzyme | GSK

[Download a brochure](#) for a detailed conference agenda and full speaker line-up.

With the event growing year on year, Pharmaceutical Freeze Drying Technology will provide ample networking opportunities for our global audience of senior industry specialists.

RECENT BOOKINGS INCLUDE: Pacifi Ltd | Syngenta Limited | OPTIMA pharma GmbH | F. Hoffman-La Roche Ltd and more!

Take a look at last year's [attendee list](#) to see who you could meet this May!

GET INVOLVED:

Visit the website for more information and secure your place by **February 28th** to benefit from our **£200 early bird rate** [here](#).

For sponsorship opportunities or to exhibit, contact Alia Malick on +44 (0)20 7827 6168 or email amalick@smi-online.co.uk

For delegate enquiries contact Ameenah Begum on +44 (0)20 7827 6166 or email abegum@smi-online.co.uk

AGENDA HIGHLIGHTS: [Download brochure](#)

Day One - 8th May 2017

- 8.30 **Registration & Coffee**
- 9.00 **Chairman's Opening Remarks**
Sune Andersen, Principal Scientist Drying Processes, Novo Nordisk A / S
- 9.10 **Freeze drying of biologics: The essentials**
Patrick Garidel, Process Sciences Department, Head of Pharmaceutical Basic Development, Boehringer-Ingelheim
- 9.50 **Spray drying as an alternative to freeze drying and how to combat the challenges**
Sune Andersen, Principal Scientist Drying Processes, Novo Nordisk A / S
- 10.30 **Morning Coffee**
- 11.00 **Determining and controlling moisture content in lyophilised products**
Paul Matejtschuk, Principal Scientist, NIBSC
- 11.40 **Challenges in freeze drying high concentration biological formulations**
Pierre Goldbach, Late Stage Pharmaceutical and Processing Development, Roche
- 12.20 **Networking Lunch**
- 1.30 **The development and scale up of a freeze drying cycle for bioproducts**
Tim McCoy, Managing Principal Scientist, Genzyme Ireland
- 2.10 **Utilisation of modelling for process development, scale-up, and tech transfer of lyophilised products**
Bakul Bhatnager, Principal Scientist, Biotherapeutics Research&Development, Pfizer
- 2.50 **Practical approaches to tech transfer in commercial lyophilisation**
Massimo Rastelli, Project Leader Biopharm, GlaxoSmithKline plc
- 3.30 **Afternoon Tea**
- 4.00 **Leveraging model based approach to design and optimising lyophilisation processes at different Stages**
Xiaodong Chen, Senior Research Investigator, Bristol-Myers Squibb
- 4.40 **Effect of fill volume on lyophilisation process performance and product quality**
Mahammad Ahmed, Associate Scientist, Formulation, MedImmune Inc.

Day Two - 9th May 2017

- 8.30 **Registration & Coffee**
- 9.00 **Chairman's Opening Remarks**
Bakul Bhatnager, Principal Scientist, Biotherapeutics Research&Development, Pfizer
- 9.10 **Considerations for reconstitution of freeze dried pharmaceuticals**
Bakul Bhatnager, Principal Scientist, Biotherapeutics Research&Development, Pfizer
- 9.50 **Primary packaging for freeze- dried pharmaceuticals and its importance to product stability**
Emanuele Tomba, Scientist, GSK
- 10.30 **Morning Coffee**
- 11.00 **Benefits and Challenges of using PAT as part of a QbD Approach to Freeze-Drying**
Kevin Ward, Director of R&D, BioPharma Technology
- 11.40 **Secondary Drying of FD Products and Cake Collapse**
Daryl Williams, Director of Development, Chem. Eng. Discovery, Imperial College London
- 12.20 **Networking Lunch**
- 1.30 **Detection of silicone oil leaks in lyo-installation with standard equipment**
Georg Frinke, Process Engineer, Bayer
- 2.10 **Small Molecules Too!**
Jason Gray, Director of Material Sciences, Pharmaterials
- 2.50 **Afternoon Tea**
- 3.20 **Lyophilisation in Dual Chamber Cartridges — from Energy Transfer to Process Control**
Christoph Korpus, Laboratory Head, Liquid Formulation Stability, Merck KGaA
- 4.00 **Optimisation of industrial freeze drying cycle - two real life examples**
Jean-Rene Authelin, Global Head of Pharmaceutical Engineering, Sanofi
- 5.40 **Chairman's Closing**

5.50 **Chairman's Closing**
Remarks and Close of Day One

Remarks and Close of Day Two

Visit the website

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