

**From:** Emma Rosser <pharma@smiconferences.co.uk>  
**To:** Kester, Tonykester@aging.sc.gov  
**Date:** 3/16/2016 5:33:16 AM  
**Subject:** Official Invitation to Attend Lyophilisation Europe | Join GSK, Boehringer Ingelheim, Sanofi and Novo Nordisk

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**£400 earlybird expires 31st March**

**4th Annual Conference: Lyophilisation Europe**  
Holiday Inn Kensington Forum, London UK

Conference: 4th & 5th July 2016  
Interactive Workshop: 6th July 2016

**REGISTER**

[Download Brochure](#)

**NEW SPEAKER ANNOUNCED:** SMI are thrilled to welcome Pierre Lebrun, Senior Principal Statistician and Project Leader from **Arlenda**, onto the agenda for 2016

**ATTENDEE UPDATE:** GSK and **Fresenius Kabi Austria GmbH** have just confirmed their places. Secure yours by **31st March to save £400** at [www.lyophilisation-europe.com](http://www.lyophilisation-europe.com)

Dear Mr Tony Kester,

You should have received the brochure for **Lyophilisation Europe** and our official invitation to attend through the post. If you haven't seen the programme, please scroll down for event highlights or [click here](#) to download the latest agenda for 2016.

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#### ABOUT THE EVENT:

Bringing in voices from some of the most senior industry thought leaders in lyophilisation and pharmaceutical freeze drying such as **GSK Vaccines, Sanofi, Novo Nordisk** and **Boehringer Ingelheim**, SMI's 4th annual **Lyophilisation Europe** conference returns to London this July, providing a perfect platform for the industry to discuss pioneering technological developments and address the latest updates in manufacturing and drug formulation.

**Day 1** will address topics on robust design with a focus on QbD and process analytical technology (PAT), scale up of nano particles, and vaccine formulations; while **Day 2** explores optimal freeze drying parameters, concentrated biologics, and high potent injectables. [Click here](#) for details.

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#### BENEFITS OF ATTENDING:

- Control the impact of **process variables** and managing risk

- Ensure product quality and compliance through **regulatory guidance**
- Optimise spray drying process and formulation development for **complex dosage forms**
- Integrate risk-based approaches into **QbD principles**
- Hear cutting edge advancements on **PAT tools** to optimise parameters for scale-up

## GET INVOLVED:

- **How to Register: £400 earlybird expires this month!**  
Visit [www.lyophilisation-europe.com](http://www.lyophilisation-europe.com)
- SMI Group offer direct access to key decision makers through tailored **sponsorship** and exhibition packages. For details contact Alia Malick on +44 (0)20 7827 6168 or email [amalick@smi-online.co.uk](mailto:amalick@smi-online.co.uk)
- For **delegate enquiries** contact Fateja Begum on +44 (0)20 7827 6184 or email [fbegum@smi-online.co.uk](mailto:fbegum@smi-online.co.uk)

**EVENT HIGHLIGHTS** | [Download](#) the brochure for a detailed agenda

Day One - 4th July 2016	Day Two - 5th July 2016
8.30 <b>Registration &amp; Coffee</b>	8.30 <b>Registration &amp; Coffee</b>
9.00 <b>Chairman's Opening Remarks</b> <b>Sune Andersen</b> , Principal Scientist Drying Processes, <b>Novo Nordisk A / S</b>	9.00 <b>Chairman's Opening Remarks</b> <b>Sune Andersen</b> , Principal Scientist Drying Processes, <b>Novo Nordisk A / S</b>
9.10 <b>Application of QbD principles to design lyophilisation process robustness studies in support tech transfer of a freeze-dried vaccine component</b> <b>Daniela Stranges</b> , Senior Scientist, <b>GSK</b>	9.10 <b>Challenges in spray drying process and formulation development</b> <b>Sune Andersen</b> , Principal Scientist Drying Processes, <b>Novo Nordisk A / S</b>
9.50 <b>Constructing a robust design space based on product and process limitations</b> <b>Kevin Ward</b> , Director of R&D , <b>BioPharma Technology</b>	9.50 <b>ATEX regulation applied to a manufacturing workshop of high potent injectables</b> <b>Franck Pavan</b> , Outsourcing Business Manager, <b>Pierre Fabre</b>
10.30 <b>Morning Coffee</b>	10.30 <b>Morning Coffee</b>
11.00 <b>Sponsor session: Process scale up of nanoparticles</b>	11.00 <b>Sponsor session: Establishing the correct safety margins to prevent temperature collapse</b>
11.40 <b>Freeze-drying protein and vaccine formulations</b> <b>Paul Matejtschuk</b> , Principal Scientist, <b>NIBSC</b>	11.40 <b>On the use of PAT tools and statistical analysis to determine optimal freeze drying cycle parameters for scale-up</b> <b>Erwan Bourles</b> , Freeze dryer scientist, <b>GSK</b>
12.20 <b>Networking Lunch</b>	12.20 <b>Networking Lunch</b>
1.30 <b>Through vial impedance spectroscopy : A process analytical technology (PAT) to develop a rational lyophilization cycle</b> <b>Geoff Smith</b> , Professor of Pharmaceutical Process Analytical Technology , <b>De Montfort University</b>	1.30 <b>Panel discussion: Challenges of optimising filling processes and maintaining freeze dryers</b> <b>Erwan Bourles</b> , Freeze dryer scientist, <b>GSK</b>
2.10 <b>Optimisation of industrial freeze drying cycle - Two case studies</b> <b>Mostafa Nakach</b> , Head of Pharmaceutical Engineering Group, <b>Sanofi-Aventis R&amp;D</b>	2.10 <b>Freeze-Drying of highly concentrated biologics at specific formulation conditions</b> <b>Patrick Garidel</b> , Head of Pharmaceutical Basic Development, <b>Boehringer Ingelheim</b>
2.50 <b>Afternoon Tea</b>	2.50 <b>Afternoon Tea</b>
3.20 <b>Continuous freeze drying of (Bio-) pharmaceuticals</b> <b>Jos Corver</b> , Founder, <b>RheaVita BV</b>	3.20 <b>Modern process of lyophilisation</b> <b>Andrea Weiland</b> , Pharmacist, Ph.D.Managing Director, <b>Explicat Pharma GmbH</b>
4.00 <b>How to Forecast and Predict?</b> <b>Pierre Lebrun</b> , Senior Principal Statistician - Project Leader, <b>Arlenda</b>	4.00 <b>Uncertainty and global sensitivity analysis (GSA) for the (dynamic) design space determination of a traditional and continuous freeze-drying process</b> <b>Thomas De Beer</b> , Professor and Head of PAT, <b>University Of Ghent</b>
4.40 <b>Panel discussion: Designing formulations for lyophilized products</b> <b>Jos Corver</b> , Founder, <b>RheaVita BV</b>	4.40 <b>Chairman's Closing Remarks and Close of Day Two</b>
5.20 <b>Chairman's Closing Remarks and Close of Day One</b>	

[Download the brochure](#)

#### INTERACTIVE WORKSHOP:

Extend your stay to attend the interactive workshop taking place on 6th July.

#### **Design and Scale up of a Freeze Drying Process | 08.30 – 12.30**

Hosted by Paul Matejtschuk, Principal Scientist and Section Head, **NIBSC**; and Kevin Ward, Director of R&D, **Biopharma Process Systems Ltd**

**Contact us** today to arrange a special package to attend all **3 days**.

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#### OTHER EVENTS OF INTEREST:

2nd Annual Conference: Lyophilization USA

27 - 28 April, Iselin, New Jersey, USA

[www.lyophilization-usa.com](http://www.lyophilization-usa.com)

Register online at [www.lyophilisation-europe.com](http://www.lyophilisation-europe.com)

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