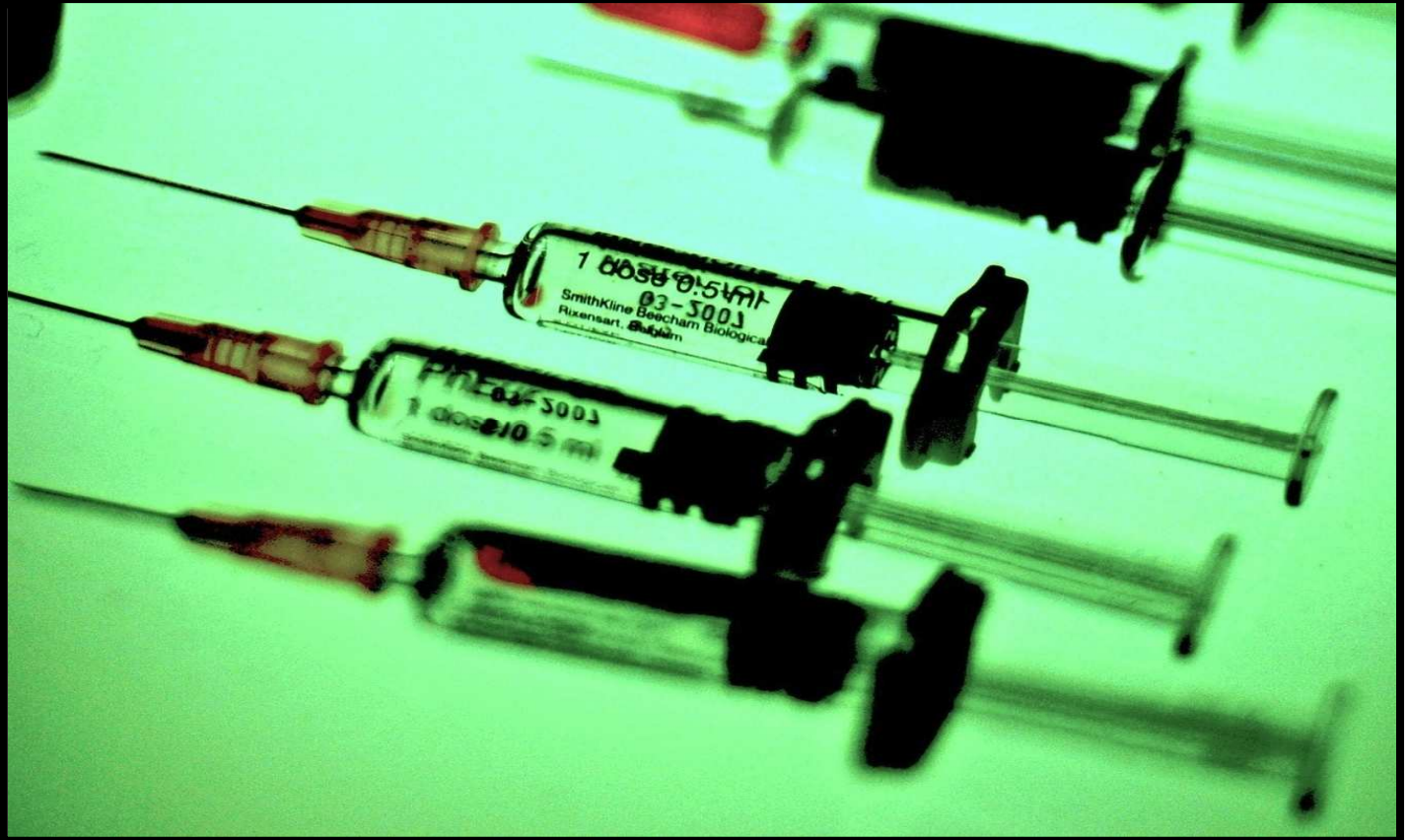


Drug Delivery

The Future of Drug Delivery Systems: Advancing New Technologies & Partnering Strategies

May 24-25, Thistle City Barbican Hotel, London UK



KEY SPEAKERS

- Dr Anand Subramony, Principal Fellow & Head, **Novartis**
- Dr Theon Yeoh, Associate Research Fellow, **Pfizer**
- Dr Adam Friedman, Director, **Albert Einstein College of Medicine**
- Dr Anders Fuglsang, Medical Consultant, **Fuglsang**
- Dr Anne Barnett, Business Development Director, **IZON, University of Oxford**
- Dr Bojan Boskovic, CEO, **Cambridge Nanomaterials Ltd**
- Dr Oliver Steinbach, Department Head, **Philips Research Laboratories**
- Dr Cheryl Barton, CEO, **Pharmavision**
- Dr Carlos Velez, Business Development Director, **Lacertabio**
- Dr Arno Fries, Director Product Management, **Gerresheimer**
- Dr Norbert Rasenack, Fellow in Inhalation Development, **Novartis**

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Conference Introduction

Drug Delivery Conference:

Novel drug delivery systems continue to be a fast growing market. The global market for advanced drug delivery systems in 2008 was recorded at 134.3 billion in annual sales, it is estimated that the industry will reach 196.4 billion in 2014*.

It is clearly evident that advancing new technologies and partnering strategies is key in the future development of drug delivery systems. Join us at Appel Consulting's Drug Delivery Conference, where our expert panel of speakers, will share insights on 'new technologies and partnering strategies', pivotal to achieve success in the global drug delivery field.

Our Drug Delivery Conference will focus on six scientific areas:

- Exploring research and development for transdermal drug delivery systems
- Nanotechnology and targeted drug delivery systems
- Innovation in pre-filled syringes and injectable technology
- Investigation into nasal and buccal drug delivery systems

- Business development and marketing management strategies
- New areas of drug delivery resulting from patent expirations

Our programme is driven by an advisory board who have already started working on the event and have identified these strategic areas to be addressed in the programme:

- Advanced transdermal delivery systems: current landscape and trends
- The emerging role of nanotechnology in particle characterisation technology and disease prevention.
- Management Strategies :driving renewed investment into geographical reach and social media tools.
- Next generation injection devices and parenteral packaging systems.
- Guideline on EU approval for the commercial development of products for intranasal application.

Sabrina Daw
CEO Appel Consulting Ltd

Who should attend?

VPs, Directors, Heads, Managers of:

- Drug Delivery
- Pre-formulation/Formulation/Stability
- Business Development
- Licensing
- Technology Assessment
- Commercial Development
- Patents
- Lifecycle Management
- Strategic Planning and Development
- Financial Analyst
- Pharmaceutical and Analytical R&D
- Pharmaceutical Science
- Testing
- Product Development
- New Product Planning
- New Technology Evaluation
- Marketing
- Brand Management
- Product Management
- Sales
- Regulatory Affairs

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Appel Consulting is at the forefront of producing the highest quality pharmaceutical events. All of the events we organize are highly focused towards senior level executives. Our conferences are all research driven to enable our clients to be at the cutting edge of business information. Appel Consulting events offer clients key opportunities to network within the pharmaceutical sector.

Our pharmaceutical conferences address the commercial, regulatory and technical aspects of the pharmaceutical field and provide an ideal forum for debate and networking for pharmaceutical professionals internationally.

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sabrina.daw@appelconsulting.co.uk

09:30 Registration and refreshments

10:00 Opening address from the chair

Dr Anand Subramony
Principal Fellow & Head of Novel Delivery Technologies
Novartis, USA

10:10 Transdermal Delivery Systems: Current Landscape and trends

- Marketed transdermal delivery systems-trend analysis
- Medical benefits of recently launched patch products & release rate control through introductions of fentanyl & clonidine patches
- Emerging assisted/active transdermal delivery technologies

Dr Theon Yeoh
Associate Research Fellow
Pfizer

10:50 Nanodermatology: The Emerging Role of Nanotechnology in the Diagnosis, Prevention and Treatment of Skin Disease.

- Mechanisms of cutaneous drug delivery
- Identifying developments on nanotechnology for consumers and for dermatology
- Distinguish potential pitfalls of nanotechnology as they relate to dermatology

Dr Adam Friedman
Director
Dermatologic Research
Albert Einstein College of Medicine

11:30 Morning refreshments

11:50 Products and Quality of Pre-filled Syringes:

- Advanced syringe manufacturing processes
- Add-ons for product life cycle management
- New syringe materials
- Quality requirements shaping the market in the coming years

Dr Arno Fries
Director Product Management
Gerresheimer

12:30 A potential way towards EU approval for companies developing products for intranasal application

- Applying the principles of OIPs to nasal products in the EU.
- Role of in vitro studies pharmacokinetics & pharmacodynamics
- TNSS and sensitivity: A real challenge

Anders Fugsang
Medical Advisor Consultant
Fugsang

13:10 Networking lunch

14:10 SIOS: New techniques for characterisation and advanced analysis of particle systems in nanomedicine.

- Introduction to IZON:qNano instrument and SIOS measurement principle
- SIOS application to particle characterisation for drug delivery.
- Advanced characterisation: gaining information from reaction dynamics (particle-particle, particle-molecule)
- Illustrative case studies: Demonstrating advanced applications of SIOS in nanomedicine, drug delivery and diagnostics

Dr Anne Barnett
Business Development Manager
IZON: Oxford University

14:50 Carbon nanotubes for drug delivery applications

- Carbon nanomaterials introduction
- Carbon nanomaterials in biotechnology and nanomedicine
- Carbon Nanotubes in biomedical application
- Carbon Nanotubes for drug delivery applications

Dr Bojan Boskovic
CEO
Cambridge Nanomaterials Ltd

15:30 Afternoon refreshments

15:50 Future development trends and technical consideration for autoinjectors.

- Development drivers for devices and the drug reservoir
- Interactions between the drug reservoir and injection device
- Pharma and patient expectations of self-injection systems

Ian Thompson
Director of Business Development
Ypsomed

16:30 Image-guided ultrasound triggered drug delivery

- Use of liposomes and microbubbles
- Tracking monitoring and quantifying drug release with MRI
- Formulations and different applications for different drug formats

Dr Oliver Steinbach, Department Head
Philips Research Laboratories

17:10 Closing remarks from the chair

17:20 Networking drinks

Take your discussions further and build new relationships in a relaxed and informal setting.

09:30 Registration and refreshments

10:00 Opening address from the Chair

Dr Anand Subramony

Principal Fellow & Head of Novel Delivery Technologies

Novartis, USA

10:10 The impact of advanced aseptic technology on facility design

- Harmonization of EU and FDA guidance from room classifications
- Isolators vs RABS risk and cost impact
- Recent case studies

Sterling Kline

Director of Project
Development

**Intergrated
Project Services**

10:50 Drug Delivery Systems: Advances in generic development

- Drug delivery systems -overview
- Challenges in the generic development of drug delivery systems:-
- Regulatory
- IP
- Bio requirements
- Technological
- Case studies

Dr Rajan K Verma

Senior Manager Early Development
Formulations

Dr Reddy's Laboratories

11:30 Morning refreshments

11:50 Advanced transdermal drug delivery systems

- The fundamentals of active energy enhanced transdermal energies: thermal ablation, laser ablation, Radio frequency/Ultrasound & iontophoresis
- Patch pump technologies for the delivery of high volume antibodies through the skin for programmable PK

Dr Anand Subramony

Principal Fellow & Head of Novel Delivery Technologies

Novartis, USA

12:30 Consortium building, exploitation and dissemination management

- Collaborative R&D and innovation management
- European collaborative R&D EC FP7 projects
- Consortium building as a foundation of the future supply chain
- Exploitation and dissemination management as a business development tool

Dr Bojan Boskovic

CEO

Cambridge Nanomaterials Ltd

13:10 Networking lunch

14:10 Business Development & Partnering Management Strategies in Drug Delivery

- Building internal and external alliances
- Areas drug delivery attracting the most interest in last few years
- Who are the major players and delivery platforms over the past 5 yrs.

Dr Cheryl L Barton

CEO

PharmaVision

Dr Sara Sleigh

Senior Associate

Pharmavision

14:50 Patient centered drug delivery product development

- Clinical perspectives to therapeutic objectives
- Therapy enhancement translating scientific excellence
- Drug delivery in healthcare provision

Sven Stegemann

Director

Pfizer

15:30 Afternoon refreshments

15:50 Why should you work with external BD&L consultancies?

- How external firms can help develop an overarching business development framework
- Maximising the benefit of social media tools in the development context
- Approaches to expanding the existing skill set of an internal firm
- Driving renewed investment in geographical reach of internal business development firms

Carlos

Drug Delivery Business Development

Lacertabio

16:30 Challenges, & Trends in Particle Engineering

- Particle engineering as a contributor to a successful pharmaceutical drug product development
- Review on the effectiveness and efficiency of Inhalation drug delivery systems
- Challenges and Trends in Novel Technologies

Dr Norbert Rasenack

Fellow Inhalation Development

Novartis

17:10 Chair's closing remarks

17:20 End of conference

Drug Delivery Registration

MAY 24th-25th

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