

An in-depth examination of polymer material developments and product technologies

# PLASTICS IN **Medical** **Devices** 2009

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Chaired by:  
**Chris Smith**  
*Editor and Conference Manager*  
European Plastics News

**Tuesday 21 and Wednesday 22 April 2009**  
**Le Meridien Hotel, Brussels, Belgium**

#### KEY PRESENTATIONS FROM:

- **Orest Lastow**  
*Pharmaceutical and Analytical R&D*  
ASTRAZENECA
- **Bram Jongen**  
*Technical Support Manager*  
HELVOET PHARMA
- **Dr. Kadem Al-Lamee**  
Managing Director – Polymer Coating Division  
LOMBARD MEDICAL TECHNOLOGIES PLC

And including:

#### Panel discussion:

Understanding end-users needs and implementing function design  
AstraZeneca  
GlaxoSmithKline  
Minima Design  
Industrial Design Consultancy

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# PLASTICS IN **Medical** Devices 2009

Pharmaceutical companies are becoming ever more dependent on plastics design and manufacturing companies to provide the critical services they need to succeed in this market. End-users are looking for the latest technologies at the most competitive prices without compromising on the safety of the product. Regulatory issues in the medical sector are amongst the most challenging and device users and manufacturers must ensure that they are aware of how to tackle these issues in a timely and effective way.

European Plastics News is pleased to announce the third annual PLASTICS IN MEDICAL DEVICES conference. **This conference is the place to gain the latest information on the newest materials, innovative applications, regulatory developments and design ideas in the medical device industry.**

## WHO SHOULD ATTEND?

- Medical device manufacturers
- Drug packagers
- Designers
- Film & sheet extruders
- Injection & blow moulders
- Plastics & additive producers
- Machinery suppliers
- Universities & testing institutions
- Mould makers

## ACCOMMODATION

Accommodation is NOT included in the registration fee. We will hold a limited number of rooms at a discounted rate at the venue. These will be allocated on a first come first served basis and can be booked, with a credit card, through CLAIRE HOOD at VENUE SEARCH UK

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If you would prefer not to stay at the venue, Venue Search UK is able to locate and book alternative hotel options for you.

# TUESDAY 21 APRIL 2009

08.00 Registration and refreshments  
09.00 Chairman's welcome

REGULATORY

09.15 **LATEST UPDATE ON BIOCOMPATIBILITY TESTING OF MEDICAL PLASTICS**

- The latest evolution of the ISO standards
- Potential impact of the new directive 2007/47
- Tendencies regarding the expectations of the authorities
- Practical examples

*Jean-Pierre Boutrand, General Manager, Biomatech*

09.45 **NO MISTAKES: PLASTICS FOR HEALTHCARE AND DIAGNOSTICS**

- Healthcare and diagnostics market and needs
- Advantages of specialised HD products – service package
- Product safety
- Plastics for healthcare and diagnostics

*Marcela Villegas, New Business Development Healthcare & Diagnostics, BASF*

10.15 Questions and answers  
10.30 Break

11.00 **SURFACE MODIFICATION AND COATINGS FOR MEDICAL DEVICES**

- Low friction coatings
- Coatings preventing bacterial adhesion
- Controlled release of bioactive ingredients

*Dr Tessa ten Cate, Materials Technology, TNO Science and Industry*

11.30 **USING ADVANCED MATERIALS TO ENHANCE MEDICAL DEVICES**

- Conventional & bio-polymeric materials for medical devices
- End-user & designer perspectives: ergonomics, ease of use, anticounterfeit
- Single use applications & responsible disposals

*Paul Earnshaw, Consultant, PA Consulting*

12.00 **STERILISATION AND MATERIAL SELECTION**

- Common sterilisation techniques for rubber and plastic
- Case study: Irradiation of flip caps

*Bram Jongen, Technical Support Manager, Helvoet Pharma*

12.30 Questions and answers  
12.45 Lunch

14.00 **BRINGING REAL SOLUTIONS TO OVERCOME REAL PROBLEMS**

- An explanation of moulding issues and how specific automation features can eliminate them
  - o cavity traceability
  - o camera proofing
  - o additional assembly
  - o secondary packaging

*Andrew Sargisson, Export Sales Director, Waldorf Technik GmbH & Co. KG*

14.30 **INNOVATIONS IN SILICONES FOR HEALTHCARE APPLICATIONS**

- Why choose silicones instead of another elastomer
- Different kinds of silicones that are used in medical devices
  - o LSRs, HCRs and RTVs
- The selection of the appropriate silicone
- Case studies

*Roja Wall, Application Development Specialist, Momentive Performance Materials*

15.00 **INNOVATIVE THERMOPLASTIC MATERIALS FOR HEALTHCARE APPLICATIONS**

- Regulatory/legislative framework
  - o selecting the right materials
- Biocompatibility and other specialised needs of healthcare customers
- Healthcare Product Policy
  - o special needs in the healthcare segment
  - o examples of material solutions

*Rob de Jong, Industry Manager Healthcare, SABIC Innovative Plastics*

15.30 Questions and answers  
15.45 Break

16.15 **ADVANCES IN MATERIALS INFORMATION TECHNOLOGY FOR MEDICAL PRODUCT DEVELOPMENT**

- Rational selection of materials in product design
  - o hundreds of medical grade materials – how to find the best for a part?
  - o a method that is fast, exhaustive, auditable, reproducible
  - o minimise cost, mass, or size and optimise trade-offs between these goals
  - o biocompatibility, sterilisability, mechanical, thermal, durability, permeability
  - o plastic vs metal
- Rational positioning of plastics for material producers – the reverse of selection in design
- Central repository of critical materials information for an enterprise – how and why

*Patrick Coulter, Chief Operating Officer, Granta Design*

PANEL DISCUSSION

16.45 **UNDERSTANDING END-USERS NEEDS AND IMPLEMENTING FUNCTION DESIGN**

*Orest Lastow, Pharmaceutical and Analytical R&D, AstraZeneca*  
*Andy Walker, Head of Device Technology, GlaxoSmithKline*  
*Brian Gough, Projects Director, Industrial Design Consultancy*  
*Alastair Kingsland, Design Director, Minima Design Ltd*

17.30 **PANEL DISCUSSION WRAP UP**

17.45 **End of day one conference**  
19.00 **Conference dinner at SCHELTEMA RESTAURANT**

Informal networking dinner for all delegates, speakers and sponsors. This is included in your registration fee.

**WEDNESDAY 22 APRIL 2009**

08.30 Refreshments  
09.00 Chairman's opening remarks

**09.15 APPLICATIONS OF PLASTICS IN HEALTHCARE AND MEDICAL DEVICES**

- In vitro and in vivo
- Design opportunities offered by plastics
- Regulatory issues to consider
- Testing and compliance

*Brian Gough, Projects Director, Industrial Design Consultancy Limited*

**09.45 USING DESIGN TO AID INFECTION CONTROL**

- Medical devices need to be designed to prevent the spread of infection, far too many do not consider this from the beginning
- Portable devices are prone to aid the spread of infection if they are not designed to limit it
- Simple design guidelines to limit cross infection will be discussed
- Well designed products do not need to cost more and can make savings
- Having a good idea is one thing, getting it into production is another
- Products don't need to cost more they just need to be well considered

*Alastair Kingsland, Design Director, Minima Design Ltd*

**10.15 CASE STUDY****THE NEXT GENERATION OF MEDICAL DEVICES: SHL's PRECISION PEN INJECTOR (PPI)**

- Now it is possible to make medical devices for injections with highly viscous formulations
- New technology is incorporated into this unique design
- Unparalleled precision and accuracy with regards to delivery
- Innovative design

*Mats Persson, Vice President, SHL Medical Europe*

10.45 Questions and answers  
11.00 Break

**11.30 PATIENT REQUIREMENTS ON A NEXT GENERATION INHALATION DEVICE**

- New and more diverse patient population with new needs
- Results from user studies with feature ranking
- Other requirements eg: regulatory, manufacturing, marketing, etc
- How to handle conflicting requirements
- How to address the needs in a new inhalation device

*Orest Lastow, Pharmaceutical and Analytical R&D, AstraZeneca*

**12.00 PERSPECTIVES ON PVC IN MEDICAL DEVICES**

- What does it mean for medical devices that DEHP is now on the REACH authorisation list?
- Can we rely on the PVC-free ecolabels we soon will see on medical devices
- PVC on its way to sustainability – latest progress report from Vinyl 2010
- 'PVC in modern day surgery' – an extraordinary exhibition on display at medical museum

*Ole Grondahl Hansen, General Manager, PVC Information Council Denmark*

12.30 Questions and answers  
12.45 Break

**14.00 NEW POLYMERS AND DEVELOPMENT FOR THE MEDICAL DEVICE INDUSTRY**

*Andreas Liebenhoff, Market Manager, Kraton Polymers GmbH*

**14.30 NOVEL COATINGS TECHNOLOGIES FOR MEDICAL DEVICES**

- Hydrophilic coating for cardiovascular catheters
- Lubricious coating for urinary catheters
- Bio-stable and bio-degradable polymers for a drug-eluting stent

*Dr. Kadem Al-Lamee, Managing Director – Polymer Coating Division, Lombard Medical Technologies PLC*

**15.00 INNOVATIVE TPE TECHNOLOGIES FOR MEDICAL APPLICATIONS**

*Kristof Verschueren, Market Manager Consumer Goods, Healthcare & Packaging, PolyOne*

15.30 Questions and answers  
15.45 Chairman's closing comments and close of conference

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**PLEASE NOTE**

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CONFERENCE LANGUAGE: English. Please note that no translation service will be provided.

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