

October 8/9, 2015 · Parkhotel Am Taunus \*\*\*\* · Oberursel (Germany)

# 9<sup>th</sup> R&D Autumn Conference 2015



## Final Program

**October 8<sup>th</sup> and 9<sup>th</sup>, 2015**  
**Parkhotel Am Taunus \*\*\*\***  
in **Oberursel (Germany)**

## Product Development in Healthcare and Life Science

The R&D Autumn Conference provides a forum for R&D managers from various industries to meet peers, discuss topics of mutual interest and to share best practices. The conference has been held annually since 2007, in a variety of interesting locations in Europe, and has developed into a successful technology networking platform.

**The 9<sup>th</sup> R&D Autumn Conference in Oberursel will focus on technology and engineering aspects of the healthcare and life science business. Increasing life expectancy, proliferation of chronic diseases, rising expectations in lifestyle, and an aspiring middle class in emerging countries, create new market opportunities that can be met by technological advancements and product innovation. On the other hand, reduced public funding, soaring regulatory requirements, and increased competition all lead to cost pressure and reduced margins.**

At the conference various experts from this industry sector will report about their experience with technologies, processes and tools, and about their daily challenges to bring innovative products to the market. The conference will also be a unique opportunity for managers from other industries to broaden their horizons and to extend their networks.

This year's conference will be co-organized by LORENZ Life Sciences Group.

Factory Tour on Friday, Oct 9<sup>th</sup> 2015 at  
**LORENZ Life Sciences Group**  
in Frankfurt



➤ Further information:  
[www.kontrapunkt-technology.com](http://www.kontrapunkt-technology.com)

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# 9<sup>th</sup> R&D Autumn Conference 2015

## Product Development in Healthcare and Life Science

### Conference Programme

#### Thursday, October 8

- 12:30 Get Together and Standing Lunch
- 14:00 **Welcome and Introduction**  
Martin PAPPING · Kontrapunkt Technology · Konstanz (Germany)  
*Product Innovation*  
**Moving boundaries of rubber technology**  
Anders CHRISTENSEN · AVK Gummi A/S AVK Gummi A/S · Låsby (Denmark)  
*Medical Excursion*  
**In Thin Air**  
Friedemann TAUT · Taut Science & Service Ltd · Konstanz (Germany)  
*Product Innovation*  
**Product Design for the Developing World**  
David GRIFFIN · 42 Technology Ltd · St. Ives / Cambridge (Great Britain)  
*Chalk Talk*  
**Cutting-Edge Technologies in NMR Applications**  
Philip KELLER · Metrolab Technology SA · Plan-les-Ouates / Geneva (Switzerland)  
*Disruptive Innovation*  
**The Impact of the Digital Transformation**  
Gero LÜBEN · Ingasol GmbH · Basel (Switzerland)  
*Changing the Perspective*  
**Innovation Management in the Aviation Industry**  
Erwin FELDHAUS · Röder Präzision · Egelsbach (Germany)
- 18:00 End of Afternoon-Session
- 20:00 Dinner at the Parkhotel \*\*\*\*

#### Friday, October 9

- Factory Tour at LORENZ Life Sciences Group, Frankfurt**
- 8:30 Departure from Hotel
- 9:30 *On Site Experience*  
**Agile Software Development to Improve Regulatory Affairs Processes**  
Introduction to LORENZ  
The Development Process @ LORENZ  
Development Tools  
Quality Assurance and Validation Procedures in a regulated environment  
Christian KAAS, Manuel STEIN and Andreas STANG · LORENZ Life Sciences Group · Frankfurt (Germany)
- Lean Product Development**  
Gero LÜBEN · Ingasol GmbH · Basel (Switzerland)
- 12:30 Lunch
- 14:00 Closing of Conference



LORENZ Life Sciences Group in Frankfurt has been developing and marketing software solutions for the Life Sciences market since 1989. LORENZ's solutions are geared specifically for submission assembly, review, publishing, validation and management. LORENZ docuBridge® is the most widely used eCTD submission management system for U.S., European and Japanese formats among many others, and is popular with regulatory agencies and industry alike. With over 400 installations in over 25 countries, LORENZ has a strong worldwide customer base.

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## Product Development in Healthcare and Life Science

### *Product Innovation*

#### **Moving Boundaries of Rubber Technology**

Anders CHRISTENSEN · AVK Gummi A/S · Låsby (Denmark)

AVK Gummi in Låsby is a leading global provider of rubber solutions for recognized equipment producers in the drinking water, food and healthcare industry. In his talk, Anders will report about the development of a new pressurized rubber component that is used as a pump for medicines injected into the human body. The design team was confronted with various challenges during the development of the new component, in particular with regard to material science, process technologies and process control. The project initiated a shift in paradigm, not only because of new technologies involved, but also because of organizational changes within the whole organization.

### *Medical Excursion*

#### **In Thin Air**

Friedemann TAUT · Taut Science & Service Ltd · Konstanz (Germany)

Taut Science & Service Ltd provides consultancy for medical device and drug development with a focus on respiratory and critical diseases. Many of us are used to working "in thin air" quite often in our daily business lives. In the course of his talk, Friedemann will elaborate on this topic in a literal sense and pick up on a subject we discussed during last year's conference: the role of oxygen in large scale industrial separation, and its use for steel production. This year, with the focus on life science, you will get an impression how our body's supply of oxygen can be ensured – even in extreme mountaineering situations with maximal exertion in the thin air of Mount Everest. Friedemann, both scientist and medical doctor, will explain how our respiratory and oxygenation system is able to provide sufficient oxygen to organs and tissues in spite of decreasing air pressures in high altitudes, and how research found out that Mount Everest is the critical limit.

### *Product Innovation*

#### **Product Design for the Developing World**

David GRIFFIN · 42 Technology Ltd · St. Ives / Cambridge (Great Britain)

42 Technology is a technology innovation and product development company that has been working with clients to create products and manufacturing processes in the medical, consumer and industrial sectors since 1998. David will present the challenges and critical considerations in the design of products for the developing world. In a recent project for the Foundation for Innovative New Diagnostics (FIND), 42 Technology have developed a sputum-collection device which is used to diagnose poverty-related diseases such as tuberculosis. A particular challenge in this project was to safely transfer precise volumes of infected patient sputum samples, and to prevent accidental infection of healthcare workers. In his talk David will highlight some of the key steps and processes.

### *Chalk Talk*

#### **Cutting-Edge Technologies in NMR Applications**

Philip KELLER · Metrolab Technology SA · Plan-les-Ouates / Geneva (Switzerland)

Metrolab is the global market leader for precision magnetometers, used to measure high-intensity magnetic fields to a very high degree of precision. In his chalk talk, Philip will share the experience of a 30-year old industrial manufacturer delivering products to all leading players in Magnetic Resonance Imaging (MRI), such as General Electric, Philips, Siemens and Toshiba, as well as all major physics laboratories such as the European centre CERN, Fermilab in the USA, and KEK in Japan. In particular, Philip will elaborate on the past trends in the MRI business and their impact on Metrolab's business.

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### *Disruptive Innovation*

#### **The Impact of the Digital Transformation**

Gero LÜBEN · Ingasol GmbH · Basel (Switzerland)

Ingasol GmbH is a Swiss-based consultancy helping SMEs to develop digital business ideas using a risk-minimizing methodology. In his talk, Gero will examine what «Digital Transformation» means. «Digital» is often perceived as a wave of transformational opportunities, as well as threats, that form an ecosystem in which we conduct our daily activities. Although the term is usually associated with a shift in technology investment, its true implications go beyond technology into the fields of infrastructure, company culture and leadership, as well as a change of focus on the entire customer experience. In the digital world, technology is changing quickly, with consumers making and breaking the rules of the game. Gero will give examples of how traditional businesses were able to successfully adapt their business models, and how agile implementation processes help to bring new solutions quickly to market.

### *Changing the Perspective*

#### **Innovation Management in the Aviation Industry**

Erwin FELDHAUS · Röder Präzision · Egelsbach (Germany)

Like the life science business, the aviation industry has also experienced a boom in recent years. OEMs have full order books for the next decade, and everything seems to look sunny with blue skies. Yet nothing can be taken for granted. On the one hand, the aviation industry is learning to manage its supply chain, the way the automotive industry did a couple of decades ago - price pressure is forcing suppliers to become more efficient by adopting modern production techniques like LEAN and KANBAN. On the other hand, revolutionary new technologies are promising to create new possibilities in the area of product design - 3D printing will change the way aircraft are developed, produced and maintained. As General Manager of one of the major maintenance, repair and overhaul organizations in the German aerospace industry, Erwin will describe methods of managing innovation in this industry and will lead a discussion on various organizational models for streamlining innovation.

### *On Site Experience*

#### **Agile Software Development to Improve Regulatory Affairs Processes**

Christian KAAS, Manuel STEIN, Andreas STANG · LORENZ Life Sciences Group · Frankfurt (Germany)

LORENZ Life Sciences Group has been developing and marketing software solutions for the Life Sciences market since 1989. LORENZ's solutions are geared specifically for submission assembly, review, publishing, validation and management. During the factory tour Christian and his colleagues will give us insights of how LORENZ adds value to the pharmaceutical industry and regulatory agencies along the process chain of bringing new medical products to the market. As director of development Christian will elaborate in particular on the agile development process that has enabled his team to bring multiple software release per year to the market.

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The conference will be held at the **Parkhotel Am Taunus** in **Oberursel**. You will find the Parkhotel quietly located and nevertheless with good road and rail links to the north of Oberursel in the vicinity of Frankfurt and Bad Homburg.

You can expect an excellent kitchen and luxurious hotel rooms. The "Seventh Heaven", a harmoniously designed sauna and fitness area, is a perfect place to relax after a long conference day. "Anthony's Bar" is located in the vaulted cellar, where you can conclude the evening in convivial company.



## Parkhotel Am Taunus

Hohemarkstr. 168

61440 Oberursel

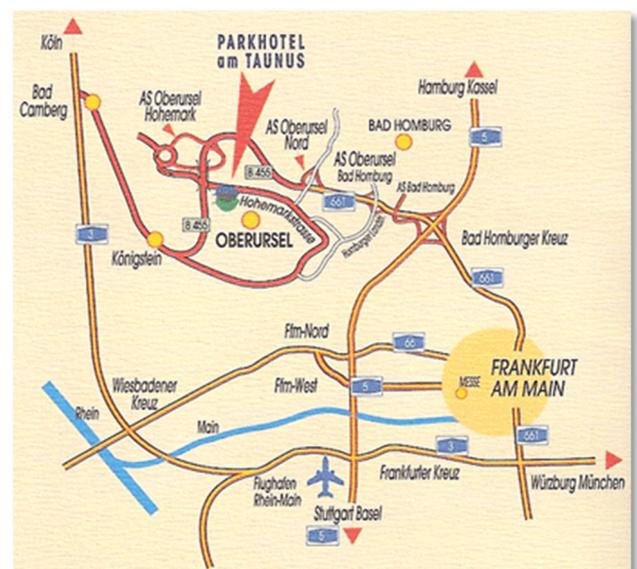
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The hotel is only a few minutes by car to the Frankfurt metropolis on the River Main via the 661 motorway. The Taunus forest with archaeological sights such as the "Limes" World Cultural Heritage Site (the famous Roman frontier wall) and the "Saalburg" Roman Fort as well as the Celtic circular hiking trail to the "Heidetränk-Opidum" (a fortified Celtic settlement) are only a few miles away. The location of the hotel is also an ideal starting point for beautiful hikes through the countryside of the Taunus landscape.

## [➤ Driving Directions](#)



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