

# InnoTesting – The Future of Testing and Simulation

Day One: Thursday, Feb 23, 2012

**08.30**      **Registration of Participants**

**09.30**      **Opening – Dr. Michael Born, Chairman InnoTesting Program Committee**

**Future Whole Engine Model Simulation and Validation Requirements**

Dr. Norbert Arndt  
Rolls-Royce Plc

**Testing of Aircraft Structures**

Prof. Dr.-Ing. Wilhelm Hanel, Prof. Dr.-Ing. Thomas Fleischer, Dr. Roald Best  
IMA Dresden

**Automation in Airworthiness Compliance Demonstration**

Volker Wieseler, Eurocopter Deutschland GmbH  
Olivier Engelkes, Avionic Design Service GmbH

**11.00**      **Coffee Break** ☕

**11.30**      **Workshop Presentations**

## Workshop I

**Analysis of Micro-vibration by High Resolution Force Sensing Measurement to Reduce Mechanical Noise**

F. Liebold, S. Wiegand, R. Käso  
Astro- und Feinwerktechnik Adlershof GmbH

**BreTeCe – Distributed System Testing**

Kishore Duganapalli  
ExxpertSystems GmbH

**YAVE – Test Systems with Optimised Verification Processes**

Johannes Kremp, Andreas van Hove  
FTI Engineering Network GmbH

## Workshop II

**Challenges of Quality: Agile Testing of Embedded Systems**







Roman Sorokiewicz, MSc., Konrad Häusler  
The ICT Association SIBB e.V.

**CFRP in Aircrafts: Compromise between low weight, costs and industrial maturity**


Dr. Udo Berthold  
Managing Director, COTESA

**Brandprüfungen zum Nachweis der Brandschutzanforderungen an Werkstoffe und Komponenten nach pr EN 45545-2 am Beispiel Fahrgastsitz**

(Fire tests for the proof of the fire protection requirements for materials and components in accordance with pr EN 45545-2 using the example of passenger seat) – German Language  
Gert Schmidt  
RST Rail System Testing GmbH

- 13.00**      **Lunch Break** 
- 14.00**      **Trains, Planes and Immersive Simulators – a New Direction in the Testing of Safety Critical Transport Systems**  
Chris Pibworth, Sokuntheary En  
The ICT Association SIBB e.V.
- Simulation for Safety – Technical, Human and Organisational Factors**  
Prof. Dr. Thomas Biermann  
WIT - Wildau Institute of Technology / Wildau TUAS
- MTOC - the new Rolls-Royce Mechanical Test Operations Centre**  
Dr. Michael Born,  
Managing Director Rolls-Royce Mechanical Test Operations Centre GmbH
- 15.30**      **Coffee Break** 
- 16.00**      **Transfer to Rolls-Royce** 
- 16.30**      **Rolls-Royce MTOC Facilities**  
(Please take along your passport / ID-Card as it is required for security reasons)
- 17.30**      **Transfer to Conference Site / Hotel / Evening Event** 
- 19.00**      **Visiting Historic Koenigs Wusterhausen Castle**  
  
(This medieval castle became famous as the hunting lodge of Prussian king Frederick William I and his tobacco collegium in the early 18<sup>th</sup> century)
- 19.30**      **Conference Dinner at Koenigs Wusterhausen Castle Restaurant** 
- 22.00**      **Transfer to Conference Site / Hotel** 
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## Day Two: Friday, Feb 24, 2012

- 08.30**      **Welcome Coffee** 
- 09.00**      **Opening of Day 2 - Main Insight of Day 1**
- 09.30**      **Workshop Presentations**

### Workshop III

#### **Model Based Testing for Scenarios in which only a Subset of Test Cases is Used to Verify a System under Test**

Marco Franke, Carl Hans and Klaus-Dieter Thoben  
BIBA - Bremer Institut für Produktion und Logistik GmbH, University Bremen

#### **Simulation of Wind Speed Distributions using ANN Modeling Comparing with Data from Long-Term Measurement – Case Study for the Mugla Region / Western Turkey**

B. Çelik, B. Kurtuluş, Dr. L. Giese, F. Kurtuluş, A. Eltez, Prof. Dr. S. Rolle, M. Jergovic  
Wildau TUAS

### Workshop IV

#### **High Cycle Fatigue Testing by Means of Chopped Air Excitation – The Development of an Innovative Excitation System**

E. Wendenburg, E. Pugliesi  
GEVA mbH

#### **Zerstörungsfreie Prüfung von Serienschäden auf Grundlage einer Schadensanalyse nach VDI 3822**

(Non-destructive testing of serial damages based on a failure analysis according to VDI 3822) – German Language  
Ulrike Mosler  
RST Rail System Testing GmbH

- 10.30**      **Coffee Break** ☕
- 11.00**      **Simulation of Passenger and Vehicle Movements at BER Airport**  
 Thomas Heuer  
 ARC Aachen
- Simulation of Fire Prevention Measures at BER Airport**  
 Dr. Christoph Klinzmann  
 hhpberlin – Ingenieure für Brandschutz GmbH
- Testing Challenges in Aircraft Engines and Gas Turbines**  
 Dr. Edmund Ahlers  
 Managing Director AneCom Aero Test
- 12.30**      **Plenary Round Table – End of Conference**
- 13.00**      **Business Lunch and Farewell Cocktail** 🍴
- 14.30**      **Visit to AneCom Aero Test Facilities (Optional)** 🚌  
 (Please take along your passport / ID-Card as it is required for security reasons)
- 16.00**      **End of Optional Visit**
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Conference documentation: all participants will get the presentations in electronic form on a USB memory stick on Friday.

**InnoTesting 2012 is organized by:**



**in cooperation with:**



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