

## Welcome

The recovery of the global economy has also impacted the aerospace industry, which seems to have emerged from its trough faster than expected. Order books of aircraft manufacturers are filling up and production batches are being increased. Airlines are promising bulk orders while at the same time they keep asking for aircrafts with lower fuel consumption and operating costs. Subsequently, the pressure to be innovative in the aircraft industry is still high. New material and structure technologies play a decisive role in medium and short term programmes. Achieving a target-oriented, successful implementation of these programmes that combine the strengths and competences of the industry and those of public research is of great significance.

With the EUCOMAS we can offer you for the fourth time the platform for professional exchange on the latest technologies and the initiation of cooperations between OEMs, KMUs and research facilities. As per request of our industrial partners and to keep the European character of the EUCOMAS it will as of 2012 take place biennially at aerospace locations in Germany and as of 2013 every two years in another European country. The EUCOMAS 2012, being the national kick-off conference will be organised at the Airbus location Hamburg, where we will offer you an extended industry-based programme which will be prepared by the BDLI in cooperation with the VDI, the DGLR and Carbon Composites e.V.

We are looking forward to welcoming you at the EUCOMAS 2012 in Hamburg.

Yours sincerely,



**Heinz Voggenreiter**  
Director in DLR,  
Germany



**Rolf Philipp**  
Managing Director,  
Aircraft Philipp GmbH  
& Co. KG, Germany



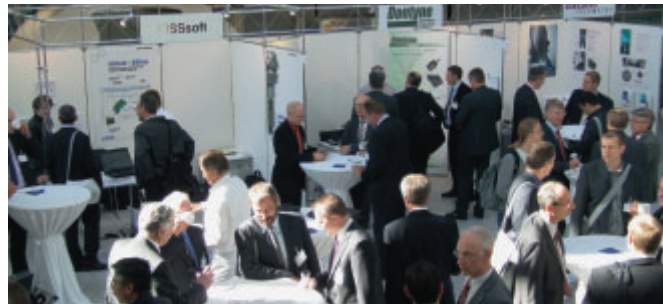
@ Photos: www.mediaserver.hamburg.de/C. Spahrbier

## Exhibition & Sponsoring

As an exhibitor or sponsor you position your company with a clearly perceptible presence within a selected circle of participants. Get in contact with the high-quality participants at this conference and present your products and services to a specialist audience in your market without a loss of intensity due to scattering. We would gladly provide you with an individual offer.

### Contact:

Christina Buettner  
Project Consultant, Exhibition & Sponsoring  
Phone: +49 211 6214-429, E-Mail: buettner@vdi.de

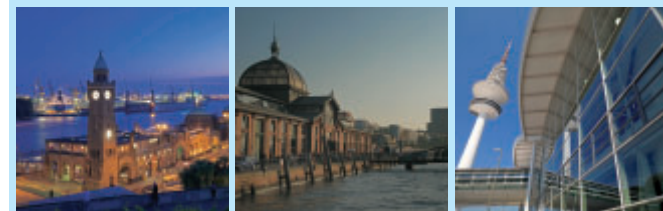


## Hamburg - ideally suited for any event

The Hanseatic City Hamburg matches perfectly the requirements of an international event like EUCOMAS:

- One of the most technically advanced airports in Europe
- Over 400 flights from Hamburg Airport every day
- As many as 62 airlines connect Hamburg with 112 national and international destinations
- From the airport to the city centre in 20 minutes by city rail
- Over 270 hotels offering a total of approx. 30,000 beds

Moreover Hamburg is a city with many varieties offering cultural experience, shopping with style and a lot more to its guests and inhabitants.



@ Photos: www.mediaserver.hamburg.de/C. Spahrbier

## 2<sup>nd</sup> Call for Papers

New date: 7-8 February 2012

## 4<sup>th</sup> EUCOMAS

EUROPEAN CONFERENCE ON MATERIALS  
AND STRUCTURES IN AEROSPACE

EUCOMAS



BDLI



CCeV



7-8 February 2012  
RAMADA Hotel Hamburg,  
Germany

## Online-Submission of papers

We encourage you to send in your abstract (1 page) online to [www.eucomas.eu](http://www.eucomas.eu)

### Deadline: 20 June 2011

The abstract should be in English and should include:

- The title of the paper
- Authors (company address, department, phone, fax, email, personal title of the author and co-authors)
- A meaningful abstract (max. 1 page in A4 format, including illustrations)
- Assignment to a specific presentation topic

The scientific committee will decide whether your paper should be presented orally or as a poster depending on the topic and the number of contributions received.

## Deadlines

Submission of abstracts (1 page)	20 June 2011
Notification of acceptance to the authors	End of June 2011
Manuscripts (ready for press)	October/November 2011

## Congress language

The official language of the congress will be English.

## Publications

The authors of the accepted papers will be asked to submit a manuscript (ready for press) of their presentation for the proceedings.

## Conference Fee

Regular attendance fee	€ 850,- (plus VAT)
Reduced attendance fee for speakers	€ 750,- (plus VAT)
Travel and accommodation costs will not be reimbursed.	

## Main topics of the conference

The submitted papers should pertain to the following topics of the conference:

1. **Carbon fibre compound materials**
  - Flexible tooling systems for CFK manufacture
  - Automated production
2. **Metallic structures**
  - Efficient process chains for metallic structures
  - Near-Net-Shape-technologies
  - Economic manufacturing of TiAl, Titan AL and Ni
  - Joining technology
  - Aluminium Tailored Blanks
3. **Hybrid Structures**
  - Design principles
  - Interfaces
  - Structural Bonding CFK-Metal
4. **Fibre ceramic structures**
  - Manufacturing techniques
  - Materials
  - Engine applications
  - Impact-protection systems
5. **Non-destructive testing**
  - Production integrated NDT
  - In-Service-NDT
  - Effects of Defects
  - Structural Health Monitoring
6. **Numerical Simulation**
  - Microstructure and properties
  - Simulation of process chain
  - Residual stress
7. **Bionic Design Method**
  - Topology optimization
  - Tools for isotropic materials
  - Tools for anisotropic materials
  - Tools for hybrid structures
8. **Efficiency of Resources**
  - Availability of materials
  - Dependencies

In the interest of all participants we ask you to refrain from any product presentation activities. The conference should focus on the exchange of information on the latest trends, developments and technologies.

## Organizing Board

**Heinz Voggenreiter**, German Aerospace Center (DLR), Cologne, Stuttgart and Augsburg, Germany (Conference President)

**Rolf Philipp**, Managing Director, Aircraft Philipp GmbH & Co. KG, Übersee, Germany (Conference President)

**Marianne Baumgärtner**, Leistritz Turbomaschinen Technik GmbH, Nuremberg, Germany

**Jörg Esslinger**, MTU Aero Engines GmbH, Munich, Germany

**Blanka Lenczowski**, EADS Innovation Works, Munich, Germany

**Matthias Miermeister**, Aleris Aluminium Koblenz GmbH, Koblenz, Germany

**Rainer Rauh**, Airbus S.A.S, Bremen, Germany

**Stefan Reh**, German Aerospace Center (DLR), Cologne, Germany

**Christian Sauer**, Lufthansa Technik AG, Hamburg, Germany

**Hans-Jürgen Schäfer**, Verein Deutscher Ingenieure e.V. (VDI), Düsseldorf, Germany

**Martin Wiedemann**, German Aerospace Center (DLR), Braunschweig, Germany

**Axel Zwiener**, Bundesverband der deutschen Luft- und Raumfahrt-industrie e.V. (BDLI), Berlin, Germany

## Official Partners

- BDLI - Forum Materials and Components
- Carbon Composites e.V. - CC e.V.
- Confederation of European Aerospace Societies - CEAS
- German Aerospace Centre - DLR
- German Aerospace Industries Association - BDLI
- German Association for Aerospace - DGLR
- The Association of German Engineers - Society for Materials Engineering - VDI-GME

*We would like to thank the Organizing Board and the Official Partners for their kind support!*

## Organization

VDI Wissensforum GmbH

## Technical Chair

VDI Society Materials Engineering

The VDI Society Materials Engineering systematically links up experts with a business background and experts from the application-oriented research to discuss current component and product issues from a materials and technology point of view and provides the developed solutions in this engineering network.

[www.vdi.de/gme](http://www.vdi.de/gme)