

## Scope

The conference combines the three most important light metals Aluminium, Magnesium and Titanium and their (suitable) combinations, giving a broad overview of actual use in light-weight design and advanced modern transport systems and structural applications. It includes a deep insight into the basics, the specific product requirements and how they are met by each of these conventional light-weight materials, or by their combination in advanced multi-materials design, including specific joining and corrosion issues.

The conference provides a platform for academic and industrial researchers, scientists and engineers to present and discuss the recent development and progress made in the scientific field of Aluminium, Magnesium, Titanium and their Alloys. The sessions are organized in main applications, intended to provide optimum comparison and a broad overview of specific advances, problems and high-lights, covering:

- Conventional and advanced light-weight applications and products in automobiles, aerospace and other relevant transport and building systems
- Fundamental aspects of the 3-light-weight-alloys and their (physical) metallurgy
- Microstructure evolution, related properties and advanced simulation
- Industrial fabrication, processing and joining issues

The conference addresses industry as well as academia especially emphasizing the strong connection between the two. It also encourages young engineers and students to participate and network.

Keynote and overview presentations are planned on the following topics by:

- Academics on the frontiers of fundamental and applied science, such as alloy design and advanced processing including computational modeling.
- Industrials on technology-based issues and processing, including applied simulation along the entire process chain
- Customers on recent application and markets issues, such as transport and building.

**The deadline for the submission of abstracts is 4 March 2013!**

We're looking forward to receiving your contribution!

Conference Chairs



**Jürgen Hirsch,**  
*Chairman*  
*Aluminium*  
Hydro Bonn,  
Germany



**Karl Ulrich Kainer,**  
*Chairman*  
*Magnesium*  
Helmholtz-Zentrum Geesthacht,  
Germany



**Christoph Leyens,**  
*Chairman Titan*  
TU Dresden,  
Germany

## Programme Committee



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Ford Forschungszentrum Aachen GmbH



**D. Wieser**  
Alcoa Europe,  
Bonn



**H.-W. Zoch**  
Uni Bremen

## Topics

- Alloy Development
- Application (Aerospace, Automotive, Transportations, Energy, Buildings, Packaging etc.)
- Casting and Solidification
- Characterisation
- Composites - Compounds
- Corrosion
- Forming and Formability
- Joining Technology
- Mechanical Properties
- Novel Materials
- Phase Transformation
- Powder Metallurgy
- Recrystallisation and Texture
- Recycling
- Simulation and Modelling
- Thermomechanical Processing
- Surface Treatment
- Environmental Behavior
- Multi Materials Systems
- Biomaterials
- Materials- & Resource-Efficiency
- Strategic Material Aspects
- Risk Assessment

## Call for Abstracts

The organisers invite prospective authors to submit an abstract relating to the conference topics. **Deadline: 4 March 2013.** Abstracts should not exceed 300 words in length and should be submitted through the conference website, together with the conference registration. Those authors preferring a poster presentation should indicate so. The abstracts will be evaluated, and if accepted, the authors will be informed about the kind of presentation (oral or poster).

## Keydates and Deadlines

**Submission of Abstracts:**  
4 March 2013

**Notice to Authors:**  
May 2013

**Programme Information:**  
August 2013  
**Conference:**  
3-5 September 2013



Interior of an A320  
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Bremen, Marktplatz  
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Schliff Al-Ti-Sitzschiene  
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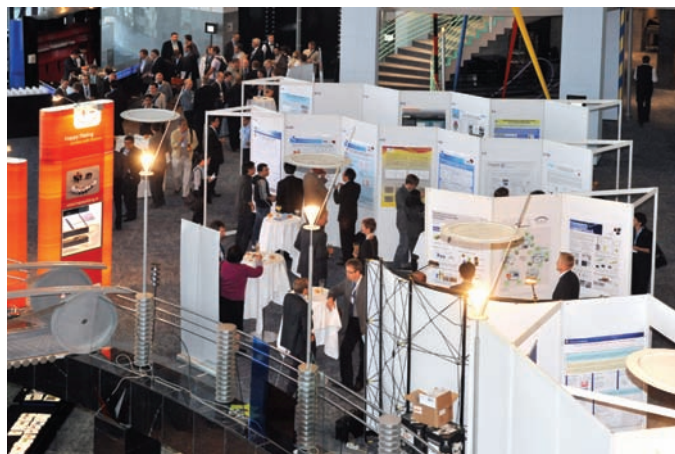
## Exhibition and Sponsorship

Are you interested in supporting the LightMat 2013 conference and presenting your company/institute? The LightMat 2013 is the ideal platform for the individual presentation of your innovative products and services.

Please feel free to contact us for any questions or proposals regarding your company's presentation.

## Exhibitor- and Sponsoring Office

INVENTUM GmbH  
Alexia Ploetz  
Hensstr. 3  
53173 Bonn  
**E-Mail: expo@inventum.de**



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## Conference Fees

### Young Researchers up to 30 years (incl.)

- **DGM-members:**  
EUR 200,-
- DGM-basic members:  
EUR 220,-
- Non-members:  
EUR 240,-

### Expert Researchers 31-40 years (incl.)

- **DGM-members:**  
EUR 350,-
- DGM-basic members:  
EUR 385,-
- Non-members:  
EUR 420,-

### Professionals University

- **DGM-members:**  
EUR 600,-
- DGM-basic members:  
EUR 660,-
- Non-members:  
EUR 720,-

### Industry

- **DGM-members:**  
EUR 700,-
- DGM-basic members:  
EUR 770,-
- Non-members:  
EUR 840,-

## Conference Location

The conference takes place in Bremen:

Maritim Hotel & Congress Centrum  
Bremen  
Hollerallee 99  
Bremen, Germany  
<http://www.maritim.com/en/hotels/germany/hotel-bremen>



## Organisation

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# Magnesium Aluminium Titanium

Science and Technology

Euro

# LightMAT 2013



International Congress on Light Materials

# 3-5 September 2013

**Bremen, Germany**

Deutsche Gesellschaft  
für Materialkunde e.V.

[www.dgm.de/lightmat2013](http://www.dgm.de/lightmat2013)  
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