Programme Overview

The conference topics cover lightweight materials such as Aluminium, Magnesium and Titanium, their processing as well as their specific technology and property features, which are involved in their use in modern transport systems and structural lightweight applications. LightMAT 2017 gives a deep insight into the fundamentals and the specific requirements that apply to each of the three lightweight materials. The materials are viewed individually or in combination in multi-material designs, including the aspects of processing, joining and corrosion protection. In addition, promising enabling-technologies such as additive manufacturing are highlighted. Plenary, Lectures and Poster presentations cover the following topics:

A = Processing
B = Applications
C = Alloy Development
D = Hybrid Materials and Multi-material designs
E = Characterization and testing
F = Computational materials design
G = Sustainability

AM = Special Topic – Additive Manufacturing
ECAA = Special Symposium

Additive manufacturing - the industrial version of 3-D printing – is already used to produce some individualized items, such as medical implants, and plastic prototypes for engineers and designers. The special topic “Additive Manufacturing” shall give an overview of advances on 3-D printing of extremely sophisticated applications made of light alloys. Furthermore, the session shall figure out both advances on 3-D printing of extremely sophisticated applications and industrial formulation and property features, which are involved in their use in modern transport systems and structural lightweight applications.

LightMAT 2017 provides a platform for academic and industrial researchers, scientists and engineers to present and discuss the recent development and progress made in Magnesium, Aluminium, Titanium and their alloys and materials combinations. Additional sessions are organized beyond single metals and address common processes and materials combinations. The submission of abstracts is still possible! We wish you a pleasant and extraordinary conference experience and look forward to meeting you in Bremen.

Conference Chairs
Jürgen Hirsch
Hydro Bonn, Germany

Karulich Kainer
Heilmohlt Zentrum Geesthacht, Germany

Christoph Leyens
TU Dresden, Germany

Axel von Hehl
IWT Bremen, Germany

LightMAT 2017 addresses industry as well as academia and intends to strengthen the link between the two. Furthermore, the conference promotes the participation and the networking of young engineers, scientists and students.

Young Researchers up to 30 years

DGM-members* 220 EUR
DGM-Members 270 EUR
Non-members 300 EUR

Expert Researchers 31 - 40 years

DGM-members* 460 EUR
DGM-basic members 490 EUR
Non-members 530 EUR

Professionals University

Students* 450 EUR
DGM-basic members 660 EUR
Non-members 720 EUR

Industry

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

* Deutsche Gesellschaft für Materialkunde e.V. (DGM) (German Materials Society)
Benefit from a DGM-Membership
www.dgm.de

The conference fee is VAT-exempt according to §4, Ziffer 22 UStG. The catering package contained to the congress fee includes 19% VAT.

Venue
Maritim Hotel & Congress Centrum Bremen
Hohvelde 39
28215 Bremen (Germany)

Conference office
Deutsche Gesellschaft für Materialkunde e.V.
c/o INVENTUM
Thorsten Weber
Maria-Curie-Straße 11-17
53757 Sankt Augustin (Germany)
Phone +49 151 705 414 60
lightmat@dgm.de

General Information

LightMAT 2017 provides a platform for academic and industrial researchers, scientists and engineers to present and discuss the recent development and progress made in Magnesium, Aluminium, Titanium and their alloys and materials combinations. Additional sessions are organized beyond single metals and address common processes and main applications, intended to provide comparison and cross fertilization, giving a wide overview of individual advances, challenges and highlights, covering:

• Conventional and advanced light weight applications and products in automotive, aeronautics and other relevant transport and lightweight applications
• Fundamental aspects of the three metallic lightweight materials and their alloys, their processing and (physical) metallurgy issues involved
• Microstructure evolution, related properties and advanced simulation

What is the right material for your advanced light weight design - Aluminium, Magnesium or Titanium?

The 2nd International Conference on Light Materials – Science and Technology (LightMAT 2017) therefore gives a comprehensive overview and new insight into the three most important light metals Aluminium, Magnesium and Titanium and their combinations. LightMAT 2017 provides a platform for academic and industrial researchers, scientists and engineers to present and discuss the recent development and progress made in Magnesium, Aluminium, Titanium and their alloys and materials combinations. Additional sessions are organized beyond single metals and address common processes and main applications, intended to provide comparison and cross fertilization, giving a wide overview of individual advances, challenges and highlights, covering:

• Conventional and advanced light weight applications and products in automotive, aeronautics and other relevant transport and lightweight applications
• Fundamental aspects of the three metallic lightweight materials and their alloys, their processing and (physical) metallurgy issues involved
• Microstructure evolution, related properties and advanced simulation

• Industrial fabrication, processing, joining and corrosion protection issues
• Additive manufacturing of metallic structures enabling novel lightweight designs

The submission of abstracts is still possible! We wish you a pleasant and extraordinary conference experience and look forward to meeting you in Bremen.

Benefit from a DGM-Membership! (German Materials Society)
**Conference Material**

- Conference bags: 1,500 EUR
- Lanyards: 500 EUR
- Writing pads: 400 EUR
- Pencils: 300 EUR
- Name badges (Your company logo printed on the personal name badges): 500 EUR

**Social Events**

- Coffee breaks: prices on request
- Lunches
- Social evening
- Poster sessions evening

**Poster Exhibition**

- Back cover (U4): 500 EUR
- Inside front cover (U2): 450 EUR
- Inside back cover (U3): 350 EUR
- Regular page inside: 300 EUR

**Advertising Material**

- Flyers/brochures in the conference bag: 500 EUR
- Flyers/brochures on the plenary hall seats: 300 EUR
- Flyers/brochures at the check-in: 150 EUR

**Indoor Advertising**

- Display in the plenary hall: 250 EUR
- Display at the check-in: 150 EUR

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**Special Symposium ECAA**

The LightMAT conference 2017 will host the ECAA 2017 as a special symposium. The first ECAA, European Conference on Aluminium Alloys™ took place in Bremen 05. - 07. October 2011 as the European branch of the ICAA “International Conference on Aluminium Alloys”, the most renowned series of international conferences on Aluminium alloys since 1986. It provides a forum where Aluminium-researchers, - producers and - users from industry meet with scientists and experts from universities and research laboratories to present and discuss new developments in the science and technology of Aluminium alloys, on their production, processing and physical metallurgy of semi and their broad applications.

With Aluminium representing the most relevant, industrially produced and applied lightweight metal, the LightMAT will devote several keynote lectures and a specific 2 1/2 day series of Aluminium relevant symposia (the “ECAA symposium”), of course all open to any LightMAT 2017 participant.

I am looking forward to your contribution and active participation!

Jürgen Hirsch
LightMAT & ECAA committee

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**Call for Abstracts**

**Call for Abstracts**

The organisers invite prospective authors to submit an abstract related to the conference topics. Abstracts should not exceed 2300 signs in length and should be submitted through the conference website: https://lightmat2017.dgm.de

Please indicate whether an oral presentation or a poster is preferred. Especially young scientists are very welcome to actively contribute to the conference by submitting a contribution.

The abstracts will be evaluated in April - May 2017, and if accepted, the authors will be informed about the kind of presentation (oral or poster).

**Key dates and deadlines**

- Submission of abstracts: still possible
- Confirmation to authors: May 2017
- Preliminary programme: August 2017
- Submission of papers: October 2017

**Publications**

It will be possible to submit a short paper of approximately 4 pages, which will be published in online proceedings on the conference website and will remain there for the next 10 years max. for public download. Additionally, excellent papers will be published in a Special Issue of the Journal “Advanced Engineering Materials” (ISSN: 1438-1656, IF 2015: 1.817) or, if preferred, in an Open Access Special Issue of the Journal “Metals” (ISSN: 2075-4701, IF 2015: 1.574) with an article processing charge.

**Programme Committee**

https://lightmat2017.dgm.de/programme-committee

**International Advisory Board**

https://lightmat2017.dgm.de/international-advisory-board

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**Industrial Exhibition and Advertisement**

**Industrial Exhibition**

The exhibition will be held in conjunction with the conference. Coffee breaks, lunch and poster sessions will be held in the exhibition area.

- Price per m²: 195 EUR + 19% VAT

This includes:

- Exhibition area (min. 6 m²)
- Publication of your company logo on the conference website
- Publication of your company logo and company profile (max. 1,000 characters) in the programme brochure and on the conference website
- One exhibitor pass which is also valid to visit the scientific programme

Electricity, additional technical support, furnishing and/or catering are available on request (to be charged!). Placing will be done by order of registrations.

Placing will be determined upon a first-come, first-served registration basis.

**Programme Advertisement**

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- Inside front cover (U2): 450 EUR
- Inside back cover (U3): 350 EUR
- Regular page inside: 300 EUR

**Advertising Material**

- Flyers/brochures in the conference bag: 500 EUR
- Flyers/brochures on the plenary hall seats: 300 EUR
- Flyers/brochures at the check-in: 150 EUR
- Hand-out of various gifts at the check-in: 150 EUR

**Indoor Advertising**

- Display in the plenary hall: 250 EUR
- Display at the check-in: 150 EUR

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**Sponsoring**

Conference Material

- You will be mentioned as a sponsor in the conference programme brochure and on the conference website.
- Conference bags: 1,500 EUR
- Lanyards: 500 EUR
- Writing pads: 400 EUR
- Pencils: 300 EUR
- Name badges: 500 EUR (Your company logo printed on the personal name badges)

Social Events

- Coffee breaks: prices on request
- Lunches
- Social evening
- Poster sessions evening

Your company will be named as sponsor of the event in the printed programme brochure and on the conference website. Preferred position of your company roll-up banner at all stations where the event takes place.

**Poster Exhibition**

- Your company logo will be printed on every poster number label, which will be fixed on every poster panel. Your company will also be named as sponsor in the conference programme brochure and on the conference website.

All fees are in EUR-currency and do not include 19% VAT.