

# Programme Overview

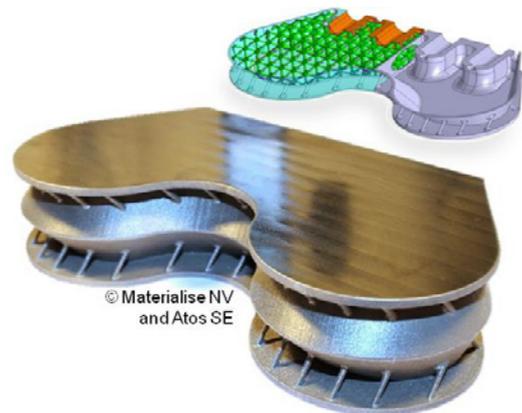
The conference topics cover lightweight materials such as Aluminum, Magnesium and Titanium, their processing as well as their specific technology and property features, which are involved in their use in modern transport systems and structural lightweight applications.

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 the current and the future challenges and opportunities of this promising technology on its way out of today’s niche market.



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# General Information Conference Fees

## Young Researchers up to 30 years

<b>DGM-members*</b>	<b>230 EUR</b>
DGM-basic members	270 EUR
Non-members	300 EUR

## Expert Researchers 31 - 40 years

<b>DGM-members*</b>	<b>460 EUR</b>
DGM-basic members	490 EUR
Non-members	530 EUR

## Professionals University

<b>DGM-members*</b>	<b>600 EUR</b>
DGM-basic members	660 EUR
Non-members	720 EUR

## Industry

<b>DGM-members*</b>	<b>700 EUR</b>
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](http://www.dgm.de)

## Venue

**Maritim Hotel & Congress Centrum Bremen**  
Hollerallee 99  
28215 Bremen, Germany

## Conference office

INVENTUM GmbH  
PO box 20 07 14 · D-53137 Bonn, Germany  
[lightmat@dgm.de](mailto:lightmat@dgm.de)

## Conference Website

<https://lightmat2017.dgm.de>

## Conference Language

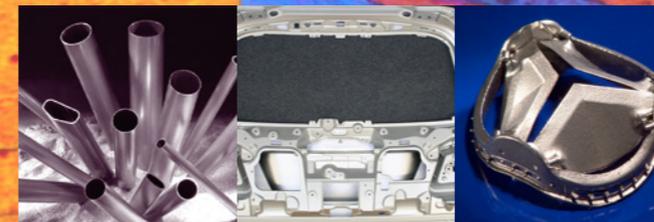
The official conference language will be English.

Aluminium, Magnesium, Titanium  
Moving the World

# LightMAT

2<sup>nd</sup> Conference & Exhibition on  
Light Materials – Science and  
Technology with the special  
Symposium **ECAA**

08. - 10. November 2017  
Bremen, Germany



[lightmat2017.dgm.de](http://lightmat2017.dgm.de)

**DGM**

# The Scope

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

The 2<sup>nd</sup> International Conference on Light Materials – Science and Technology (LightMAT 2017) 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, aerospace 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

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.

**The deadline for the submission of abstracts is 6 March 2017!**

We wish you a pleasant and extraordinary conference experience and look forward to meeting you in Bremen.

## Conference Chairs

**Jürgen Hirsch**  
Hydro Bonn,  
Germany



**Karl Kainer**  
Helmholtz-Zentrum  
Geesthacht,  
Germany



**Christoph Leyens**  
TU Dresden,  
Germany



**Axel von Hehl**  
IWT Bremen,  
Germany



# Special Symposium

## ECAA

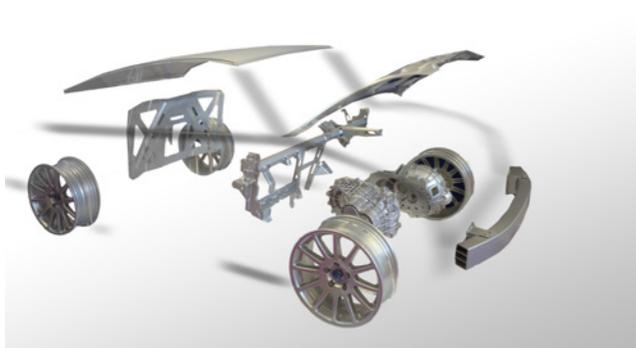
The LightMAT conference 2017 will host the ECAA 2017 as a special symposium. The first ECAA „European Conference on Aluminium Alloys“ took place in Bremen 05. - 07. October 2011 as the European branch of the ICAA “International Conference on Aluminium Alloys”, the most renowned series of international 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 semis and their broad applications.

With Aluminium representing the most relevant, industrially produced and applied light-weight 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



## Call for Abstracts

### Call for Abstracts

The organisers invite prospective authors to submit an abstract related to the conference topics. Abstracts should not exceed 300 words 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

06. March 2017

Confirmation to authors

May 2017

Preliminary programme

August 2017

### Publications

Each submitted paper 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 selected and published in SCI and EI journals.

### Conference Website

<https://lightmat2017.dgm.de>



## 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 m<sup>2</sup> 195 EUR + 19% VAT

This includes:

- Exhibition area (min. 6 m<sup>2</sup>)
- 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

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
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

## 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
Pens	300 EUR
Name badges (Your company logo printed on the personal name badges)	500 EUR

### Social Events

prices on request

Coffee breaks  
Lunch break  
Social evening  
Postersession 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

500 EUR

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

