Organiser

Gesamtverband der Aluminiumindustrie e.V. (GDA) is the German association of aluminium companies that produce raw aluminium or aluminium products, also in combination with other materials. As a trade association it represents the interests of an efficient aluminium industry in Germany.

WWW.ALUMINIUM-CONGRESS.COM

D·A·CH

D·A·CH is the network of German, Austrian and Swiss associations representing the interests of aluminium companies in their countries.

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PROGRAMME
Aluminium & Mobility
www.aluminium-congress.com
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Introduction

Mobility in its various applications has been one of the key drivers of the global success for Aluminium for decades. And the ambitious requirements of the aerospace industry, the carmakers, shipbuilders and railway manufacturers has helped the aluminium value chain to innovate and deliver new products, new alloys and new processes.

This year’s theme “Aluminium and Mobility” therefore sounds like a almost natural connection. But it is quite obvious that mobility in its long established form is in the middle of several significant transformations. Very ambitious CO2 emission regulations push the car industry to other powertrain technologies and eventually to completely new architectures. “Flygskam”, the Swedish word for the shame of using airplanes has the potential to impact the airline business model. And of course, new forms of urban mobility emerge with high intensities around the globe. Ride sharing, electric scooters, sophisticated public-transport systems are about to disrupt or at least shift the ways we move in metropolitan areas.

On the other hand: Mobility will be hardware based. Whether it is a scooter, a level-5 people mover, a drone or a vacuum tunnel – getting from A to B needs a physical carrier.

For the aluminium industry, it is of high relevance to emphasize its natural competitive advantages. Lightweight, durable and recyclable, it is the material of choice when it comes to new sustainable forms of mobility.

The EAC 2019 gives every participant the chance to listen to the ideas of global car makers, the aerospace industry and startups that even today change the ways we move. It is a platform for open exchange with global players of the aluminium industry and startups, with experts and visionaries.
Programme overview

Speakers and participants from the aluminium industry, automotive component suppliers, OEMs, plant manufacturing and mechanical engineering will discuss innovative developments and new technologies for the engineering of future mobility solutions.

DAY 1* - 25.11.2019

KEYNOTE
ROOM DÜSSELDORF

14:00 – Opening
Hinrich Mählmann
GDA President, General Partner of OTTO FUCHS KG

14:10 – Opening-speech
Europe in Motion - Aluminium as an indispensable high-tech element for the future mobility within the EU
Malwina Nowakowska-Ketterle
EU Commission

14:30 - Keynote 1
Digital Disruption: Deep Impact or Dirty Dancing?
Tom Kirschbaum
CEO & Founder | Door2Door

14:50 - Keynote 2
Aluminium in Aerospace
Blanka Lenczowski
Materials Thrust Deputy - Senior Expert Materials Technology | Airbus Corporate Technology Office

DAY 2 | 26.11.2019

09:00 – 10:20
SESSIONS 1 & 2 – Presentations Part 1

10:20 – 10:40
Coffee Break

10:40 – 12:00
SESSIONS 1 & 2 – Presentations Part 2

12:00 – 13:00
Lunch

13:00 – 15:00
SESSIONS 3 & 4 – Presentations Part 1

14:30 – 15:00
Coffee Break

15:00 – 16:30
SESSIONS 3 & 4 – Presentations Part 2

16:30
End of Event

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Participants

Hinrich Mählmann  
GDA President  
General Partner of OTTO FUCHS KG

Josef Schön  
Strategic corporate planning/ Sustainability  
AUDI AG

Christoph Wagener  
Vice President Research and Product Development  
Kirchhoff Automotive GmbH

Tom Kirschbaum  
CEO & Founder  
Door2Door GmbH

Blanka Lenczowski  
Materials Thrust Deputy - Senior Expert Materials Technology  
Airbus Corporate Technology Office

19:00 Dinner & Get-together

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DAY 2* - 26.11.2019

AUTOMOTIVE | TRANSPORT
SESSION 1 | ROOM DÜSSELDORF
Chairman: Dietrich Wieser | Arconic Global Rolled Products

- **09:00**
  Aluminium content in cars – latest insights
  Patrik Ragnarsson | European Aluminium | Belgium

- **09:20**
  Aluminium drives innovation for the future of mobility
  Michael Hahne | Novelis AG | Switzerland

- **09:40**
  Lightweight design approach for bumper systems by using ultra-high-strength aluminium alloys within EU-funded project ALLIANCE
  Friedrich Bohner | BENTELER Automobiltechnik GmbH | Germany

- **10:00**
  Aluminium as an enabler for lightweight E-mobility solutions
  Hartmut Janssen | Hydro Aluminium Rolled Products GmbH | Germany

- **10:40**
  Cast alloys for electric vehicle powertrains – challenge and opportunities
  Jan Steglich | TRIMET Aluminium SE | Germany

- **11:00**
  Cost Savings in BEVs through Lightweight Design – Today and in the Future - A Comprehensive Study
  Leif Hagebeuker | Hydro Holding Offenburg GmbH | Germany

- **11:20**
  Envision emission’s end – Lighting saves the world
  Alexander Neustadt | Bertrandt Ingenieurbüro Köln | Ford Werke GmbH | Germany

- **11:40**
  Aluminium Solutions for Battery Electric Vehicles
  Norbert William Sucke | Erbslöh Aluminium GmbH | Germany

PROCESS | HEAT TREATMENT | JOINING
SESSION 2 | ROOM MAURITIUS
Chairman: Erman Tekkaya | IUL TU Dortmund

- **09:00**
  Recent progress in hot forming of aluminium - Challenging design limitations
  Jonas Bjuhr | Hydro Aluminium Rolled Products GmbH | Germany

- **09:20**
  Modern Furnace Concepts by EBNER for Innovative Aluminium Solutions in the Automotive & Aerospace Market
  Markus Gangl, Carsten Rink | EBNER Industriefenbau GmbH | Austria

- **09:40**
  Investigation of Process Optimization for 5xxx Alloys with Different Magnesium Ratios for Automotive Applications
  Ali Ulus | ASAŞ Alüminyum Sanayi ve Ticaret A.Ş | Turkey

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10:00
Automotive and aerospace sheet and plate: New technologies in heat treatment reduce emissions and increase precision and efficiency of production
Bernd Deimann | Otto Junker GmbH | Germany

10:40
Presswerkseitige Einbringung von Funktions-elementen in hochfeste AA7XXX-Aluminiumblechteile
Martin Heckmann | LÄPPLE Automotive GmbH | Germany

11:00
Series production of friction stir welded battery trays
Michael Heußen | Hammerer Aluminium Industries GmbH | Austria

11:20
Aluminum mixed Metal Welding Applications Joint by Magnetic Pulse Welding, MPW
Frank Huberth | Fraunhofer-Institut für Werkstoffmechanik IWM | Germany

11:40
Modeling of Microstructure Evolution of high strength 7xxx alloys during homogenization heat treatment
Siamak Rafiezadeh | Austria Metall AG | Germany

MARKETS
SESSION 3 | ROOM MAURITIUS
Chairman: Frank Busenbecker | Erbslöh Aluminium GmbH

13:00
Europe’s aluminium semis markets under pressure - analysis and outlook
Andreas Postler | Gesamtverband der Aluminiumindustrie e.V. (GDA) | Germany

13:30
Facing the Challenges - Threats and Opportunities for the Automotive Industry
Manuel Kallweit | Verband der Automobilindustrie e.V. (VDA) | Germany

14:00
Potentials of low-carbon aluminium products in automotive applications – Ensuring a sustainable mobility throughout the entire life cycle
Dinesh Thirunavukkarasu | fka GmbH | Germany

15:00
EVs and the impact on aluminium recycling
Guillaume Osouf | CRU International | UK

15:30
Aluminium subframe CMS mainly with sideview battery tray motor housing
Jost Gärtner | AluMag® Automotive GmbH | Germany

16:00
„New” battle between Aluminium and Steel
Holger Stamm | PwC Strategy& GmbH | Germany

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Digital Twins facilitate the new way of planning
Gunther Schober | PSI Metals Non Ferrous GmbH | Germany

How to improve the production of aluminum sheets using cloud based data analytics
Roger Feist | Achenbach Buschhütten GmbH & Co. KG | Germany

Improving microstructural homogeneity and mechanical properties during wire-arc additive manufacturing of an aluminium alloy by cold metal transfer
Thomas Klein | LKR Light Metals Technologies Ranshofen GmbH | Austria

Weld Quality Determination in Aluminium Chip Extrusion
André Schulze | Institute of Forming Technology and Lightweight Components | TU Dortmund University | Germany

Influence of supplier relationships on the adoption of closed loop production processes - case study of REALCAR
Shyaam Ramkumar | University of Milan | Italy

Laser-based processing of polymeric protection coatings for lightweight applications
Marius Dahmen | Fraunhofer Institute for Laser Technology ILT | Germany

* Status: August 2019. Subject to change without prior notice
**Registration information**

Event registration for the European Aluminium Congress 2019 may be done online on: [www.aluminium-congress.com](http://www.aluminium-congress.com)

as well as by e-mail to:
[ eac2019@aluinfo.de](mailto:eac2019@aluinfo.de)

**For questions, please contact:**
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**Select and register**

To register by e-mail please fill out the form, including your session selection and your address details and send it to [eac@aluinfo.de](mailto:eac@aluinfo.de).

- I will attend the EAC 2019 on 25 Nov. 2019
- I will attend the Dinner & Get-together on 25 Nov. 2019

I will attend on 26 November 2019

- SESSION 1 Automotive I Transport
- SESSION 2 Processes I Heat Treatment I Joining
- SESSION 3 Markets
- SESSION 4 Surface I AM DM I Recycling

By registering I understand that personal data and images will be stored and may be used in any report covering the event. The data will be subject to the provisions of the General Data Protection Regulation (Datenschutz-Grundverordnung VO [EU] 2016/679). With my registration I consent to a list of participants being made available to all participants.

**WWW.ALUMINIUM-CONGRESS.COM**
Hotel Accommodation

A limited number of rooms has been reserved for congress participants at a reduced rate of €169 per single room incl. breakfast. The rooms can be booked using the code “GDA” and will be allocated in the order in which they are received. On our website you may download a form for booking your hotel room.

MARITIM Hotel Düsseldorf
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www.maritim.de

How to find us

**By car:** Leave the motorway A 44 at exit “Düsseldorf Flughafen”. Follow signs “Arrivals” and then “Airport City”. The Maritim Hotel Düsseldorf is now directly in front of you.

**By rail:** Take the train to “Flughafen Düsseldorf Fernbahnhof” and change to the sky train. Leave the sky train at the end of the line at “Terminal C”. Guests travelling via “Düsseldorf Hbf/Main Station” can change there on to the S 7 local train, which runs directly to the “Düsseldorf Flughafen Terminal C”.

Please use the direct access from “Düsseldorf Flughafen Terminal C” to Maritim Hotel Düsseldorf.

**By plane:** Please use the direct access from “Düsseldorf Flughafen Terminal C” to Maritim Hotel Düsseldorf.

Registration fee

980 Euro per person plus VAT. The fee includes admission to all presentations and the exhibition, congress documents, refreshments during breaks, and an evening meal and lunch as shown in the programme.

There is an early registration discount of €80 for all registrations received by 16 September 2019 – the registration fee is then 900 Euro per person plus VAT.

Registration details

You are kindly requested to register by e-mail or online. Once your registration has been received, we will issue an invoice, which is also confirmation of your booking. If the invoice is not paid within the period allowed for payment, we cannot guarantee your participation. You will not be issued with a ticket for admission in advance. Instead, when registering on 25 November 2019, you will receive a name badge that will allow access to the events.

In case of non-attendance, the full registration fee is payable. However, a replacement can be nominated at no extra charge. If registration is cancelled in writing on or before 31 October 2019, the full registration fee will be refunded less a fixed-sum cancellation charge of 150 Euro.

GDA reserves the right to make programme changes for urgent reasons. In the unlikely case that the event has to be cancelled, any registration fees already received by GDA will be refunded in full. Any further liability is excluded.