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.DE

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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Alliance for Aluminium
Germany - Austria - Switzerland

alu.ch Aluminium-Verband Schweiz Association Suisse de l'Aluminium

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CONGRESS | 2017

27–28 November 2017
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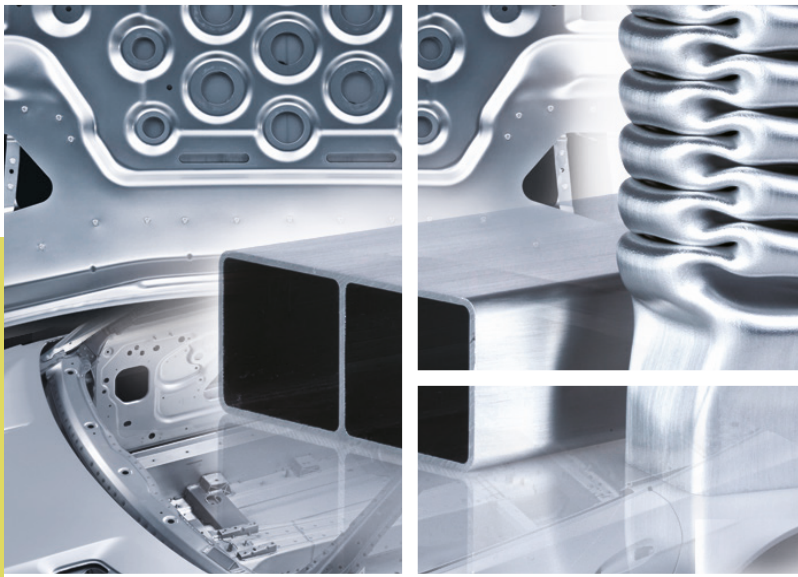

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PROGRAMME

Aluminium in Automotive Engineering – Challenges and Solutions

www.aluminium-congress.com

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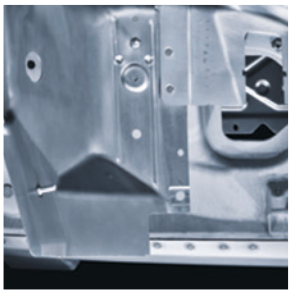

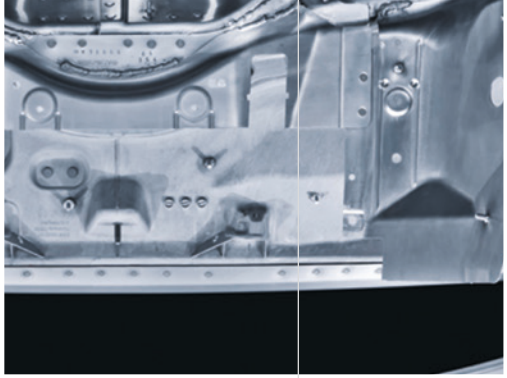

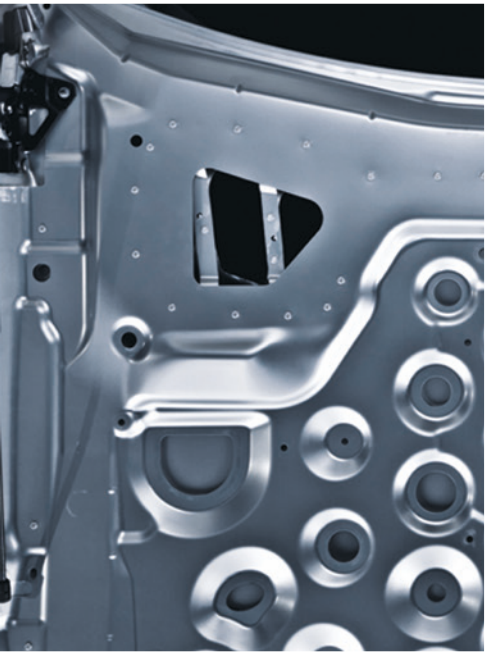

Introduction

Aluminium has become firmly established as the material of choice in numerous markets. And the future holds even more uses in store, especially in the car industry, where aluminium is already the most important material for lightweight design — whether it be for engines, in the body area, for structural components or in the chassis. The aluminium content of cars will increase still further in years to come and will present the aluminium industry and the car industry with massive challenges.

The key challenges facing the car industry are to reduce CO_2 emissions and conserve natural resources. Goals that can only be achieved using intelligent composite construction involving multi-material design coupled with considerable weight reductions in vehicle manufacturing. Given the megatrends such as future mobility, electromobility, innovative hybrid technologies and additive manufacturing, new solutions and applications using aluminium alloys will be increasingly in demand.

At the EAC 2017, with its theme “Aluminium in Automotive Engineering – Challenges and Solutions”, the various possible applications of aluminium in vehicle manufacturing will be presented together with possible developments that will make vehicles of the future lighter and more energy efficient. Participants

The EAC – European Aluminium Congress 2017 is aimed at representatives from aluminium industry, customer industry and research facilities.

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 automotive engineering of the future.

Simultaneous translation into **German ⟷ English** during the sessions

DAY 1 | 27.11.2017

12:00 – 13:00	Registration & Get-together
13:00 – 13:10	Opening
13:10 – 13:30	Keynote 1 | Sapa, John Tuestad
13:30 – 13:50	Keynote 2 | AIRBUS, Peter Sander
13:50 – 14:10	Keynote 3 | EOS - Fabian Krauß
14:10 – 14:30	Coffee Break
14:30 – 16:00	SESSIONS 1 & 2 – Presentations Part 1
16:00 – 16:30	Coffee Break
17:00 – 18:00	SESSIONS 1 & 2 – Presentations Part 2
19:00	Dinner & Get-together in Düsseldorf

DAY 2 | 28.11.2017

09:00 – 10:30	SESSIONS 3 & 4 – Presentations Part 1
10:30 – 11:00	Coffee Break
11:00 – 12:30	SESSIONS 3 & 4 – Presentations Part 2
12:30 – 13:30	Lunch
13:30 – 15:00	SESSIONS 5 & 6 – Presentations Part 1
15:00 – 15:30	Coffee Break
15:30 – 17:00	SESSIONS 5 & 6 – Presentations Part 2
17:00	End of Event

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DAY 1* - 27.11.2017

KEYNOTE

ROOM DÜSSELDORF

Chairman: Christian Wellner | GDA e.V.

■ 13:00 – Opening and Welcome

Hinrich Mählmann | GDA President, personally liable partner of OTTO FUCHS KG

■ 13:10 – Keynote 1

Driving a lightweight future with smart & sustainable aluminium solutions

John Thuestad | Executive Vice President & Business Area President - Extrusion Europe | Sapa Group

■ 13:30 – Keynote 2

On the way to Additive Manufacturing-Industrial Production enabled by Al & Ti - Metal-Powders

Peter Sander | Vice President Emerging Technologies & Concepts | Airbus

■ 13:30 – Keynote 3

Additive Manufacturing in Automotive

Fabian Krauß | Business Development Manager | EOS GmbH

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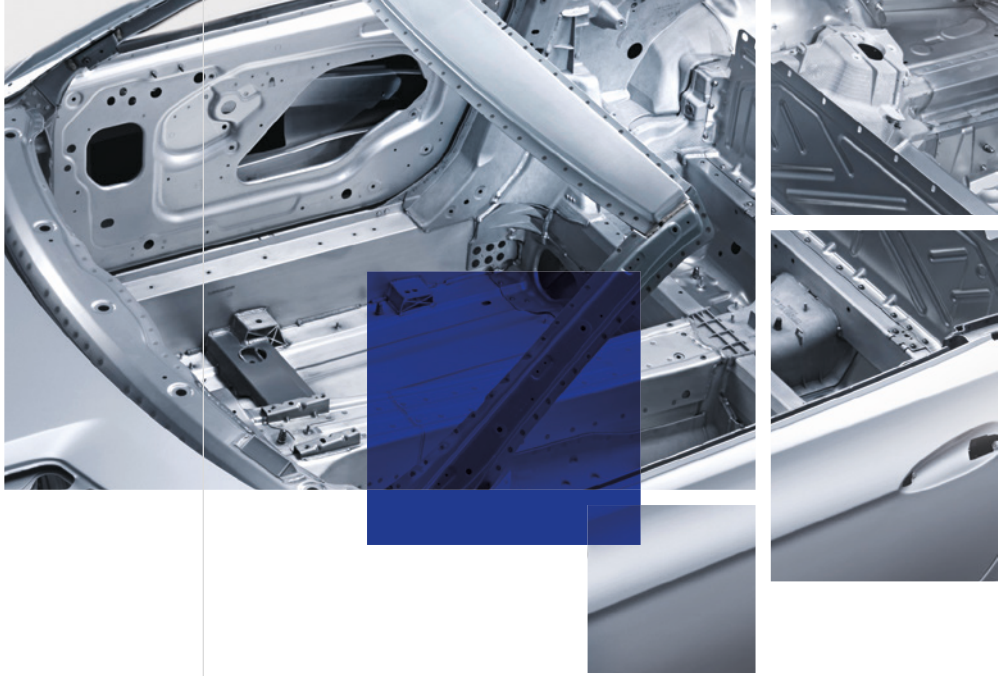

MARKETS

SESSION 1 | ROOM DÜSSELDORF
Chairman: Marius Baader | Verband der Automobilindustrie e.V.

■ 14:30
The Global Aluminium Market Outlook
Anil Patel | CRU Analysis | UK

■ 15:00
Aluminium market & market outlook
Julian Brockhaus | TRIMET Aluminium SE | Germany

■ 15:30
The impact of electrification on lightweighting and aluminum demand
Hélène Wagnies | Ducker Europe | Germany

■ 16:30
Global Automotive Markets Overview
Marius Baader | VDA - German Association of the Automotive Industry | Germany

■ 17:00
Aluminium's contribution to low carbon mobility
Patrik Ragnarsson | EA - European Aluminium | Belgium

■ 17:30
Steel and aluminum, quo vadis? A pathway to growth in challenging times
Nils Naujok | PWC - Pricewaterhouse Cooper AG, Strategy & Germany | Germany

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SURFACE, CORROSION, RECYCLING

SESSION 2 | ROOM PEKING
Chairman: Dietrich Wieser | ARCONIC

■ 14:30
Progress in Resistance against Intergranular Corrosion at Aluminium Extrusion
Horst Gers | HAI Extrusion Germany GmbH | Germany

■ 15:00
Aluminium Skin Pass Rolling in Laboratory Mill Trials and Industrial Practices
Walter Wengenroth | SMS group GmbH | Germany

■ 15:30
Principles of cognitive modelling for recycling-friendly 6xxx series aluminium alloys
V. M. Kevorkijan | Impol Aluminium Group | Slovenia

■ 16:30
Change of Slag Characteristics due to Chemical Composition and Rafination Process Parameters in Aluminum Alloys
Ali Ulus | Teknik Alüminyum A.Ş | Turkey

■ 17:00
From Scrap to First-Class Aluminium by using a Production Management System for Recycling Plants
Gunther Schober | PSI Metals Non Ferrous GmbH | Germany

■ 17:30
Assessing the susceptibility of a substrate to filiform corrosion without applying a paint layer
Alban Morel | National Research Council Canada | Canada

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DAY 2* - 28.11.2017

BODY STRUCTURE AND EMOBILITY I

SESSION 3 | ROOM DÜSSELDORF
Chairman: Michael Aumüller | AMAG Austria Metall GmbH

■ 09:00
Battery frames for electric vehicles – benefits with aluminium extrusions
Jonas Bjuhr | Sapa Extrusion Europe | France

■ 09:30
High-performance crash alloys and crash management solutions for lightweighting programs
Herve Ribes | Constellium | France

■ 10:00
Contributions to the implementation of Electric Mobility with Aluminium
Andreas Kleine | TRIMET Automotive Holding GmbH | Germany

■ 11:00
Analysis Of Impact Factors On Crash Performance Of High Strength 6082 Alloys Consider Microstructure And Small Modifications Of The Profile Geometry
Andreas Schiffl | Hammerer Aluminium Industries Extrusion GmbH | Austria

■ 11:30
Friction stir welding in e-mobility applications
Axel Meyer | RIFTEC GmbH | Germany

■ 12:00
Strategies for the implementation of innovative aluminum structures in the car body
Lars Maaß | BMW Group | Germany

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PROCESSES AND JOINING TECHNOLOGIES I

SESSION 4 | ROOM PEKING
Chairman: Gerson Meschut | University Paderborn

■ 09:00
Additive Manufacturing at OTTO FUCHS – status quo and future challenges
Frank Meiners | OTTO FUCHS KG | Germany

■ 09:30
Correlation between welding time and electrode wear for resistance spot welding of aluminum alloys
Markus Tuchtfeld | Volkswagen AG | Germany

■ 10:00
Cryogenic formability of aluminium alloys for automotive applications
Belinda Gruber | Chair of Nonferrous Metallurgy, Montanuniversitaet Leoben | Austria

■ 11:00
Composite extrusion of profiles for automotive applications under industrial conditions
André Schulze | Institute of Forming Technology and Lightweight Components | TU Dortmund | Germany

■ 11:30
Sustainable Source Using and Minimization of the Environmental Effects in Aluminum Sheet Production
Ali Ulus | Teknik Alüminyum A.Ş | Turkey

■ 12:00
Aluminum on the move – demands placed on a state-of -the-art floater furnace faci l ity for automotive grade material
Carl-August Preimesberger | EBNER Industrie-ofenbau GmbH | Austria

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BODY STRUCTURE AND EMOBILITY II

SESSION 5 | ROOM DÜSSELDORF
Chairman: Herve Ribes | Constellium

■ 13:30
Energy-efficient lightweight material processes for e-mobility applications
Amir M Horr | LKR | Austrian Institute of Technology | Austria

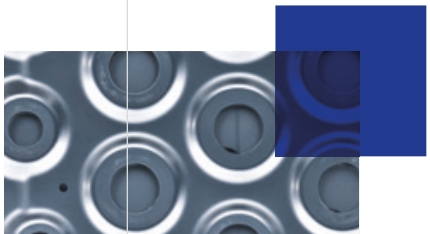
■ 14:00
Tribological engineering for automotive body sheet applications
Henk-Jan Brinkman | Hydro Aluminium Rolled Products GmbH | Germany

■ 14:30
Aluminium manufacturing parameters via in-situ analysis of precipitation and dissolution processes
Olaf Kessler | University of Rostock | Rostock | Germany

■ 15:30
How far can a BEV (battery electric vehicle) go ... OR ... how to attack the "Reichweitenangst"
Lothar Löchte | Erbslöh Aluminium GmbH | Germany

■ 16:00
Opportunities for aluminium extrusions in the 'ideal truck'
Lars Inge Arwidson | Sapa Extrusions Europe | Sweden

■ 16:30
5xxx series aluminium alloys for automotive applications
Paul Ebenberger | Chair of Nonferrous Metallurgy, Montanuniversitaet Leoben | Austria



PROCESSES AND JOINING TECHNOLOGIES II

SESSION 6 | ROOM PEKING
Chairman: Hartmut Janssen | Hydro Aluminium

■ 13:30
Process development for mechanical joining of 7xxx series aluminum alloys
Mathias Jäckel | Fraunhofer Institute for Machine Tools and Forming Technology | Germany

■ 14:00
Formability of aluminium alloys to steel using friction stir welding with a newly developed type of weld joint
Phuc Lanh Nguyen | University of Stuttgart - Institute for Metal Forming Technology | Germany

■ 14:30
Changing times in the aluminum heat treatmen process - Minimizing costs and CO_2 emissions through the introduction of the mobile and modular rental systems
Markus Belte | ATC ALUVATION Technology Center Paderborn GmbH | Germany

■ 15:30
Friction spot welding of high strength aluminium alloys with and without additional Sealer
Christopher Schmal | Laboratory for Materials and Joining Technology (LWF) University of Paderborn | Germany

■ 16:00
Virtual Modeling of High Strenght Aluminum Forming at Elevated Temperatures
Michael Machhammer | AP&T AB | Sweden

■ 16:30
RUSAL products for automotive weigh reduction
Dmitriy Ryabov | RUSAl | Russia

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Event registration for the European Aluminium Congress 2017 may be done online as well as by post:

GDA – Gesamtverband der Aluminiumindustrie e.V.
Am Bonneshof 5 | 40474 Düsseldorf | Germany

eac 2017@aluinfo.de | www.aluminium-congress.com

For questions, please contact:
Mr. Georg Grumm
Phone: +49 211 4796 160 | georg.grumm@aluinfo.de

Select and register

To register by post, please fill out the form, including your session selection and your address details.

- ☐ I will attend the EAC 2017
- ☐ I will attend the Get-together

- ☐ SESSION 1 **Markets**
- ☐ SESSION 2 **Surface, Corrosion, Recycling**
- ☐ SESSION 3 **Body Structure and eMobility I**
- ☐ SESSION 4 **Processes and Joining I**
- ☐ SESSION 5 **Body Structure and eMobility II**
- ☐ SESSION 6 **Processes and Joining II**

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-€100 Early-registration discount

The registration fee for the congress is 970 Euro per person plus VAT. There is an early-registration discount of € 100 for all registrations received by 15 September 2017– the registration fee is then 870 Euro per person plus VAT.

The registration fee includes: admission to all presentations and the exhibition, congress documents, refreshments during breaks, an evening meal and lunch.

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Date and Signature

Hotel Accommodation

A limited number of rooms has been reserved for congress participants at a reduced rate of € 159 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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How to find us

By car: Leave the motorway A44 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 S7 local train, which runs directly to the "Düsseldorf Flughafen Terminal C".

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Registration fee

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There is an early registration discount of Đ 100 for all registrations received by 15 September 2017 – the registration fee is then 870 Euro per person plus VAT.

Registration details

You are kindly requested to register by post, 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 24 November 2017, 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 2017, 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.