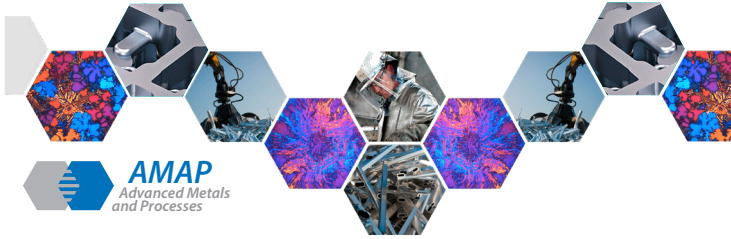


AMAP Forum – Program – 25th & 26th April 2024



Location:

MAGMA
Giessereitechnologie
GmbH
Kackertstr. 16-18
52072 Aachen

powered by:



25th April 2024

08:30 a.m. **Registration / Open Doors**

09:00 a.m. **Welcome & Introduction from the AMAP Chairman**
Speaker: Frederik Linke, Nemak

KEYNOTE SESSION

Session Chair: Frederik Linke, Nemak/AMAP
09.15 a.m. – 12.30 p.m.

09:15 a.m. **KEYNOTE**
Economic Policy Prospects for the Aluminium Industry in Germany/Europe
Speaker: Marius Baader, Aluminium Deutschland

09:45 a.m. **KEYNOTE**
Decarbonization Scenarios for European Rolled Aluminium
Speaker: Dirk Inghels, Vrije Universiteit Amsterdam/Aluminium Duffel

10:15 a.m. **KEYNOTE**
Global Trends and Challenges for the Aluminium Industry – Environment, Technology, Society
Speaker: Timm Lux, Boston Consulting Group

10:45 a.m. Coffee Break

11:15 a.m. **PANEL DISCUSSION with Keynote Presenters**
„Automotive in Transformation and its Impact on Aluminium“
Moderation: Klaus Vieregge

Panel:
Marius Baader, Aluminium Deutschland
Dirk Inghels, Vrije Universiteit Amsterdam/Aluminium Duffel
Timm Lux, Boston Consulting Group
Markus Reifferscheid, SMS Group

12:30 p.m. Lunch Break

25th April 2024

SESSION: ALUMINIUM CASTING AND MELT TREATMENT

Session Chair: Jürgen Wesemann, Ford

02.00 p.m. – 03.30 p.m.

- 02:10 p.m. **3D Printing of Die Casting Tooling**
Speaker: Magdalena Nowak-Coventry, Toyota
- 02:30 p.m. **Aluminum Wheel Castings with Nucleant 1582: Grain Refining Flux**
Speaker: Derya Dispinar, Foseco
- 02:50 p.m. **Challenges of Alloy Application in Mega-Casting**
Speaker: Jia Song, Weiqiao
- 03:10 p.m. **Interactions of Non-metallic Inclusions in Molten Aluminium and Opportunities for Enhanced Removal**
Speaker: Cong Li, IME RWTH Aachen

03:30 p.m. Coffee Break

SESSION: SUSTAINABILITY AND CIRCULARITY IN THE VALUE CHAIN

Session Chair: Bernd Friedrich, IME RWTH

04.00 p.m. – 05.30 p.m.

- 04:10 p.m. **Techno-economic Potential for the Decarbonization of Aluminium Processes – a Case Study**
Speaker: Christian Schwotzer, IOB RWTH Aachen
- 04:30 p.m. **Sustainable Battery Housing Concepts**
Speaker: Sebastian Spohr & Michael Funcke, IKA RWTH Aachen
- 04:50 p.m. **Research Activities in the EU-funded Project HyInHeat**
Speaker: Galyna Laptyeva, Speira
- 05:10 p.m. **Wrap-up of Day 1**
- 05:30 p.m. **Networking Opportunity with Evening Buffet**
- 09:00 p.m. **End of Day 1**

26th April 2024

08:30 a.m. **Registration / Open Doors**

09:00 a.m. **Welcome & Introduction**
Speaker: Frederik Linke, Nemak/AMAP Chairman

SESSION: INNOVATIONS IN METALLURGICAL PROCESS AND PRODUCTION TECHNOLOGY

Session Chair: Frederik Linke, Nemak

09.15 a.m. – 10.45 a.m.

09:25 a.m. **Gas-based Hot Sheet Metal Forming of High-strength Aluminium**
Speaker: Emad Scharifi, IBF RWTH Aachen

09:45 a.m. **Inline Measurement of Surface Roughness and Oilfilm Thickness – Smart Press Shop Uses Decisive Parameter Data in Strip Forming**
Speaker: Martin Fieweger, AMEPA

10:05 a.m. **Use of Additively Manufactured Insert Structures for Aluminium**
Speaker: Lukas Bruckmeier, GI RWTH Aachen

10:25 a.m. **Ultrasound Melt Cleanliness Detector - Industrial Case Studies**
Speaker: Ilona Kieliba, Nemak

10:45 a.m. Coffee Break

SESSION: DIGITALIZATION AND MODELLING

Session Chair: Uwe Knaak, AMAP

11.15 a.m. – 12.25 p.m.

11:25 a.m. **Digitalization and Modelling of Metal Forming Processes**
Speaker: Emad Scharifi, IBF RWTH Aachen

11:45 a.m. **Quality Improvement of Aluminium DC Casting with Virtual Experiments**
Speaker: Erik Hepp, MAGMA

12:05 p.m. **Physical and Numerical Modelling of Aluminium Melt Processing**
Speaker: Moritz Eickhoff, IOB RWTH Aachen

SESSION: QUIZ & CLOSING

12.25 p.m. – 01.00 p.m.

12:25 p.m. **Final Plenum – Quiz with all Participants**
Moderation: Dominic Feldhaus, Trimet

12:50 p.m. **Closing of the Conference**
Speaker: Frederik Linke, Nemak/AMAP Chairman

01:00 p.m. Lunch Break

02:00 p.m. **End of Day 2**

26th April 2024

02:30 p.m.

EXCURSIONS to RWTH Aachen

Option 1: IME (Process Metallurgy and Metal Recycling)
+ ibf (Institute of Metal Forming)

or

Option 2: IOB (Industrial Furnaces and Heat Engineering)
+ IMM (Institute of Physical Metallurgy and Metal Physics)

or

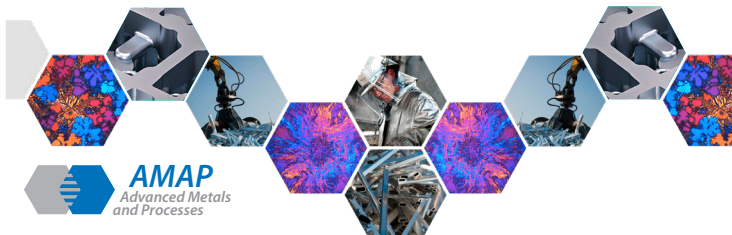
Option 3: ika (Institute for Automotive Engineering)

Contact



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