PROGRAM

All lectures will be held in english. Program is subject to change.



25th April 2024

08:30 a.m. Registration / Open Doors
09:00 a.m. Welcome & Introduction Speaker: Frederik Linke, Nemak/AMAP Chairman

KEYNOTE SESSION

09.15 a.m. – 12.30 p.m.

- 09:15 a.m. KEYNOTE Global Trends and Challenges for the Aluminium Industry – Environment, Technology, Society Speaker: Timm Lux & Nicole Voigt, Boston Consulting Group
- 09:45 a.m. **KEYNOTE** Decarbonization Scenarios for European Rolled Aluminium Speaker: Dirk Inghels, Vrije Universiteit Amsterdam/Aluminium Duffel
- 10:15 a.m. KEYNOTE Economic Policy Prospects for the Aluminium Industry in Germany/Europe Speaker: Marius Baader, Aluminium Deutschland

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 Banaly Timm Jun & Nicole Vision Restan Consulting Consum

Panel: Timm Lux & Nicole Voigt, Boston Consulting Group Dirk Inghels, Vrije Universiteit Amsterdam /Aluminium Duffel Marius Baader, Aluminium Deutschland

12:30 a.m. Lunch Break

SESSION: ALUMINIUM CASTING AND MELT TREATMENT

02.00 p.m. - 03.30 p.m.

- 02:10 p.m. Interactions of Non-metallic Inclusions in Molten Aluminium and Opportunities for Enhanced Removal Speaker: Cong Li, IME RWTH Aachen
- 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: Hai Zhang, Weiqiao
- 03:10 p.m. **3D Printing of Die Casting Tooling** Speaker: Magdalena Nowak-Coventry, Toyota

03:30 p.m. Coffee Break

SESSION: SUSTAINABILITY AND CIRCULARITY IN THE VALUE CHAIN

04.00 - 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
- 04:10 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

09.15 a.m. - 10.45 p.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 Die Casting and the Possible Use of Process and Material Data for Optimization 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

11.15 a.m. - 12.25 a.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 a.m. **Physical and Numerical Modelling of Aluminium Melt Processing** Speaker: Moritz Eickhoff, IOB RWTH Aachen

SESSION: QUIZ & CLOSING

12.25 a.m. - 01.00 p.m.

- 12:25 a.m. Final Plenum Quiz with all participants Moderation: Dominic Feldhaus
- 12:50 a.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
- 04:30 p.m. **EXCURSIONS to RWTH Aachen** Option 1: IME + ibf or Option 2: IOB + IMM or Option 3: ika