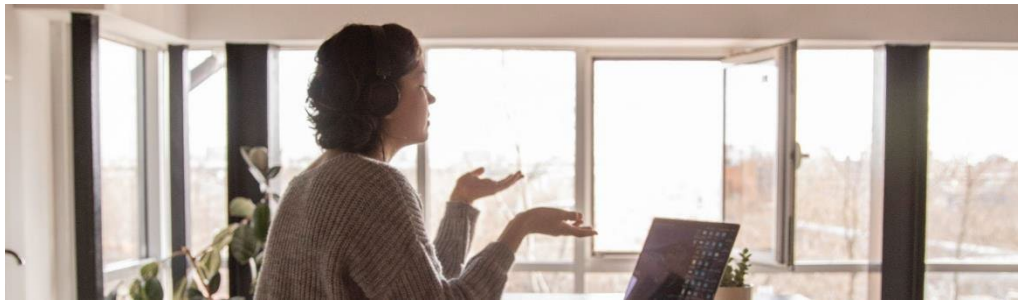
AMAP FORUM *2021*

OBJECTIVES

→

Communicate the latest Research Results from the four thematic Focus Areas:

- Alloy Development and improved Properties
- Melt Treatment & Melt Cleanliness
- Green Processing and Metal Recycling
- Applications and Market



→

Direct Feedback and possible Influence of the Participants on the Event with suitable digital Tools:

- Question & Answers
- Live Audience Survey
- Unlimited Break Out Rooms to ensure Networking among Participants at all Times

INNOVATIONS IN ALUMINIUM

AMAP Forum 2021
April 28th - 29th

WHAT

The AMAP Forum 2021 will be held completely digitally this year and thus meet member expectations within the Covid-19 guidelines.

Date: April 28th / 29th 2021
Location: MS Teams
Time: 12:45 - 05:30 p.m. / 08:45 a.m. - 01:00 p.m.
Requirements:

- Laptop or mobile device with stable access to the internet
- Registration via the registration process provided by AMAP - VIRTUAL

DAY1

Registration (15min)

WELCOME (30 Min.)

Main Room

Session 1 *Room I*

Session 2 (120+20 Min.) *Room II*

Interactive Session 1 (90 Min.)

Main Room

DAY2

WELCOME BACK (30 Min.)

Main Room

Session 3 *Room I*

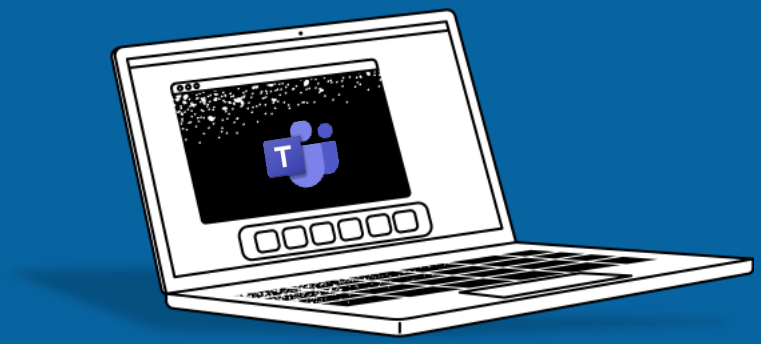
Session 4 (120+20 Min.) *Room II*

Interactive Session 2 (60 Min.)

Main Room

SPECIALS

- **Networking**
- **Q&A**
- **Quizzes**
- **Virtual Mural Room**
- **Active Spectatorship**
- **Live Chat**



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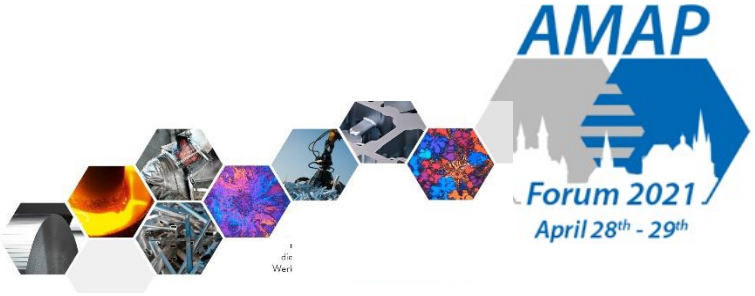
Digital Event Rules



- **If you are currently not speaking, please mute your microphone**
- **If there is no open conversation going on, please raise your hand (feature)**
- **If possible, please turn on your camera**
- **If you have any questions, please put them in the chat**
- **If you currently have an active role, please let us know if you leave the screen**

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Agenda overview Day 1 + session

April 28th, 2021

Open Doors (15 MIN.)
WELCOME (30 MIN.)
MAIN ROOM

Welcome on behalf of AMAP
Welcome on behalf of Aluminum Engineering Center
Introduction to the new format and Mural Virtual Room
Introduction Room I and II

ROOM I

SESSION 1 (120+20 MIN.)

ROOM I

Thematic focus: Alloy development and improved properties
Keynote speech
4 lectures (1-4) including discussion

ROOM II

SESSION 2 (120+20 MIN.)

ROOM II

Thematic focus: Melt Treatment + Melt Cleanliness
Keynote speech
4 lectures (1-4) + including discussion

ROOM III

ALWAYS accessible

MURAL ROOM

- Presentation of Membership Companies and Institutes
- Additional Information and Links
- How to become Member within AMAP
- Feedback Wall

INTERACTIVE SESSION (90 MIN.)
MAIN ROOM

- Q&A
- Online Quiz
- Introduction Interactive Room Mural
- Survey

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Agenda overview Day 2 + session

April 29th, 2021

WELCOME BACK (30 MIN.)
MAIN ROOM

Online quiz/games intermediate results
(Feedback in Room III - Mural)

ROOM I

SESSION 3 (120+20 MIN.)
ROOM I

Thematic focus: Green processing and metal recycling
Keynote Speech
4 lectures (1-4) + including discussion

ROOM II

SESSION 4 (120+20 MIN.)
ROOM II

Thematic focus: Application and market
Keynote Speech
4 lectures (1-4) + including discussion

ROOM III

ALWAYS accessible
MURAL ROOM

- Presentation of Membership Companies and Institutes
- Additional Information and Links
- How to become Member within AMAP
- Feedback Wall

INTERACTIVE SESSION FAREWELL (60 MIN.)
MAIN ROOM

- Q&A
- Online Quiz
- Survey
- Feedback Room Mural
- Farewell

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Detailed View (Day 1)

Registration/Open Doors	**12:45**	
WELCOME	**13:00**	
Welcome on behalf of AMAP	13:00	Klaus Vieregge (Hydro)
Welcome on behalf of Aluminum Engineering Center (aec)	13:10	Bernd Friedrich (IME RWTH Aachen University)
Introduction to the new format (including Mural Room III)	13:20	Axel Schulz / Franz Kubbillum (AS&P)
Introduction Room I and II (Presentation Themes)	13:25	Axel Schulz / Franz Kubbillum (AS&P)
Session I: Alloy development and improved Properties	**13:30**	Technical Moderation Axel Schulz (AS&P)
Keynote Speech: Applied research for advanced aluminum materials for new applications.	13:30	Philippe Meyer (Novelis)
Lectures: (15min. +10 each) 1) Predicting casting properties from casting through heat treatment.	13:50	Marc Schneider, Fengxin Mao (Magma Gießereitechnologie)
2) Simulation of Microstructure and Yield Stress during Natural Aging and Artificial Aging in Al-Mg-Si Alloys.	14:15	Fabrice Wagner (IBF RWTH Aachen University), Christian Bollmann (Alvance), Thiemo Brüggemann (Hydro)
3) Heat Treatment free HPDC AL Alloy.	14:40	Dmitriy Fokin (Light Materials and Technologies Institute UC RUSAL)
4) Understanding the effect of deformation on the intergranular corrosion of Al-Mg-Si-Cu alloys.	15:05	Roland Müller-Jena (KKS RWTH Aachen University)
Conclusion (20min.)	15:30	Moderation: Jürgen Hirsch (form. Hydro)
End Session I	**15:50**	

Room I

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Detailed View (Day 1)

Room II

Session II: Melt Treatment + Melt Cleanliness	**13:30**	Technical Moderation Franz Kubbillum (AS&P)
Keynote speech: Challenges in removal of dissolved and dispersed Impurities	13:30	Bernd Friedrich (IME RWTH Aachen University)
Lectures (15min. +10 each) 1) Ultrasonic Particle Detector for non-metallic inclusions	13:50	Friederike Feikus (Foundry Institute RWTH Aachen University)
2) Technology of 3-dimentional visualization of non-metallic inclusions in aluminum alloys	14:15	Markus Heneka (RJL Micro & Analytic GmbH)
3) Melt cleaning and melt cleanliness analysis with Foseco technology	14:40	Wolfram Stets (Foseco)
4) The collaborative Research Center SFB 920 - Results of Al-filter development and their Implementation Potential	15:00	Christos G. Aneziris (TU Bergakademie Freiberg)
Conclusion (20min.)	15:30	Moderation: Bernd Friedrich (IME RWTH Aachen University)
End Session II	**15:50**	
Coffee Break	**15:50**	
Online Quiz	16:00	Franz J. Feikus (Nemak Europe GmbH), Franz Kubbillum (AS&P)
Virtual MURAL ROOM Introduction	16:30	Axel Schulz (AS&P)
End of Day 1	**17:30**	Axel Schulz / Franz Kubbillum (AS&P)
Networking opportunity	open	Participants

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Detailed View (Day 2)

OPEN DOORS	**08:45**	Axel Schulz und Franz Kubbillum (AS&P)
WELCOME BACK	**09:00**	Klaus Vieregge (Hydro)
Online quiz intermediate results part 1 Feedback	09:10	Franz Kubbillum (AS&P)
Wall / Mural Room III	09:20	Axel Schulz (AS&P)

Session III: Green processing and Metal recycling

09:30 Technical Moderation Axel Schulz (AS&P)

Room I

Keynote speech: Introduction – Aluminum Recycling in the Context of Process and Product Efficiency.	09:30	Georg Rombach (Hydro)
Lectures (15min. +10 each) 1) Life Cycle Assessment for E-Cars.	09:50	Dinesh Thirunavukkarasu (ika RWTH Aachen University)
2) A vision for a zero carbon aluminum.	10:15	Jerome Lucaes (Rusal)
3) Aluminum Recycling and Technology at TRIMET - a Technical Overview.	10:40	Jan Steglich (Trimet Aluminium SE)
4) From aluminum scrap melting furnace to recycling plant, 100 years of development.	11:05	Dominik Schröder (LOI tenova)
Conclusion (20min.)	11:30	Moderation: Georg Rombach (Hydro)
End Session III	**11:50**	

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Detailed View (Day 2)

Room II

Session IV: Applications and Market	**09:30**	Moderation Franz Kubbillum
Keynote speech:		
New applications of AI in mobility, packaging, architecture and electronics	09:30	Marius Baader (GDA)
Lectures (15min. +10 each)		
1) Lightweight Solutions for Battery Trays and Structural Components.	09:50	Christoph Viechtbauer (Nemak Europe GmbH)
2) Aluminum instead of Copper in e-motors.	10:15	Maik Broda (Ford Werke - Presenter of an AMAP-funded pre-study)
3) The new HDF technology - New chapter of sheet metal forming has been opened.	10:40	Peter Amborn (HoDforming GmbH)
4) Architecture: Sustainable Metal Construction.	11:05	Markus Kuhnhenne (Institute of Steel Construction RWTH Aachen University)
Conclusion (20min.)	11:30	Moderation: Marius Baader (GDA)
End Session IV	**11:50**	
Coffee Break	**11:50**	
Online Quiz	12:00	Franz J. Feikus (Nemak Europe GmbH), Franz Kubbillum (AS&P)
Feedback in Mural Room	12:30	Axel Schulz (AS&P)
Farewell	12:40	Klaus Vieregge (Chairman of the AMAP Advisory Board)
End of AMAP Forum	**13:00**	

AS&P

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Digital Tools

MURAL

Mentimeter

SurveyMonkey®

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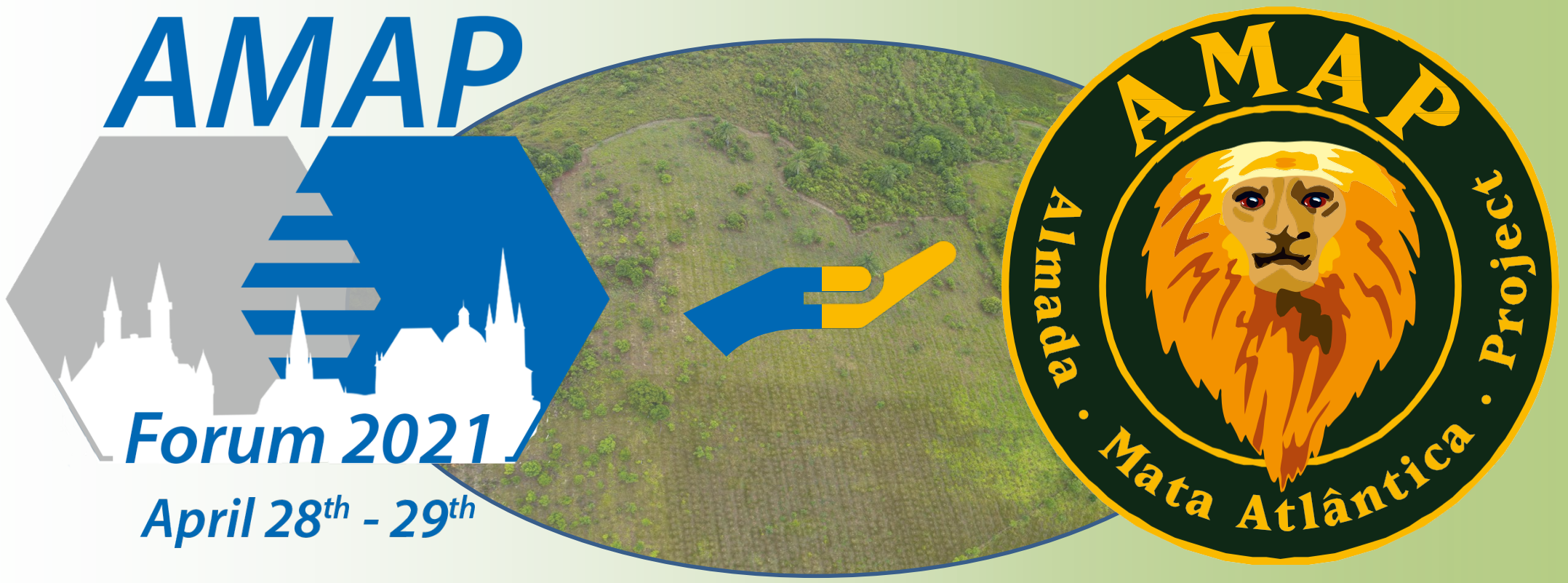
Seed-Funding-Project:

AMAP$_{GmbH}$ supports AMAP$_{e.V.}$



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Seed-Funding-Project: AMAP$_{GmbH}$ supports AMAP$_{e.V.}$

In cooperation with AMAP Brazil, the winner of the Quiz will become a tree sponsor in the brazillian rainforest

1st Price: Sponsorship of 10 Trees

2nd Price: Sponsorship of 5 Trees

3rd Price: Sponsorship of 2 Trees

You will receive a tree sponsorship certificate issued to your name, including:

- Identification number of your tree
- GPS coordinates of the reforestation area
- Frequent information about your reforestation area

With your tree sponsorship you help AMAP Brazil not only to plant a Mata Atlântica seedling, but also securing the reforestation area in the long term through care measures, promoting species conservation projects and supporting the expansion of protected areas for the conservation of the Mata Atlântica by acquiring land.