AMTC
Advanced Manufacturing Technology Conference

The most influential C-level event on Additive Manufacturing.

Program
October 12–14, 2021
Hybrid event – Virtual // Aachen, Germany
# Program

## Day 1 – October 12

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>17:00 CEST</td>
<td>Arrival</td>
<td>Registration of participants</td>
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<tr>
<td>17:30 CEST</td>
<td>Introduction</td>
<td>Dr. Melinda Crane &amp; Sven Krause</td>
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<tr>
<td>17:45 CEST</td>
<td>Lessons learned from 2.000+ Startups in AM</td>
<td>Arno Held, AM Ventures</td>
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<tr>
<td>18:00 CEST</td>
<td>How to scale up a startup in the AM industry</td>
<td>Felix Ewald, DyeMansion</td>
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<td>18:15 CEST</td>
<td>Our Exit – How to be successful in Planning and Execution</td>
<td>Frank Herzog, HZG Group Management GmbH &amp; Co.KG</td>
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<tr>
<td>18:30 CEST</td>
<td>How disruptive technology platforms like additive manufacturing and AI will transform our industries</td>
<td>Frank Thelen, Freigeist</td>
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<td>19:15 CEST</td>
<td>7 Startup-Pitches</td>
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<td>20:40 CEST</td>
<td>Formnext/Mesago Booth Drawing</td>
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<tr>
<td>21:00 CEST</td>
<td>Networking &amp; Startup Area</td>
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Speakers Day 1 – Startup Night

Caroline Albert  
neumind GmbH  
Co-Founder and CEO

Andrey Alekseev  
Spectroplast AG  
Head of Sales & Marketing

Dr. Ali Forsyth  
Alloy Enterprises  
Co-Founder & CEO

Felix Ewald  
DyeMansion  
CEO & Co-Founder

Philipp Arnold  
Additive Drives  
Chief Financial Officer

Arno Held  
AM Ventures  
Managing Partner

Frank Thelen  
Freigeist  
Founder / Investor / Author

Christian Staudigel  
Headmade Materials  
CEO

Sven Krause  
Moderator

Sharvil Nanavati  
Bralco Advanced Materials Pte Ltd  
Co-Founder & Director

Thomas Roth  
InnoSurge AC  
Co-Founder & CEO

Frank Herzog  
HZG Group  
Founding Partner

Sven Krause  
Moderator

Andrey Alekseev  
Spectroplast AG  
Head of Sales & Marketing

Caroline Albert  
neumind GmbH  
Co-Founder and CEO

AMTC Program – 2021

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Day 2 – October 13

**Block A**  
09:00 – 10:00 CEST  
**ONLINE / ON-SITE**  

**WELCOME**

Participants:
- Dr. Melinda Crane, Moderator
- Prof. Johannes Henrich Schleifenbaum, RWTH Aachen University, Professor and Director DAP RWTH, Managing Director ACAM
- Prof. Michael Süß, Oerlikon, Chairman
- Prof. Nikolaus A. Adams, TU Munich, Chair of Aerodynamics and Flow Mechanics Dean of the Faculty of Mechanical Engineering
- Armin Laschet, State chancellery of the state of North Rhine-Westphalia, Prime Minister North Rhine-Westphalia
- Achim Peltz, Siemens AG, CEO Motion Control

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**Block B**  
10:00 – 11:00 CEST  
**ONLINE / ON-SITE**  

**UPDATES & PRIORITIES: A STATUS QUO ANALYSIS OF ADDITIVE MANUFACTURING**

What has happened since MTC3? How did COVID-19 influence the speed of industrializing AM? This panel aims to clarify the current status of industrialization and to define the priorities for the next years.

Participants:
- Dr. Roland Fischer, Oerlikon, CEO
- Dr. Jochen Eickholt, Siemens Energy AG, Member of the Executive Board
- Dr. Markus Simon, McKinsey & Company, Inc., Partner of Advanced Electronics Practice
- Francisco Betti, World Economic Forum, Head of Advanced Manufacturing, ExCom Member
- Cindy Koh, Singapore Economic Development Board, Executive VP
- Jörg Spindler, Audi AG, Head of Manufacturing Engineering
### Breakout Session 1

**International Coordination of AM Initiatives**

Additive manufacturing is now an established production technology in several sectors. But to fully integrate it on a global level, international initiatives are needed. Who coordinates them? How should they be structured? What tasks are necessary? These questions will be discussed in this panel.

**Moderator:** Sara Vermeulen-Anastasi, Oerlikon

**Participants:**
- Francisco Betti, World Economic Forum, Head of Advanced Manufacturing, ExCom Member
- Sherry Handel, Additive Manufacturer Green Trade Association, Inc., Executive Director
- Dr. Chaw Sing Ho, National Additive Manufacturing Innovation Cluster (NAMIC) Managing Director, Nanyang Technological University – NTUitive Pte Ltd
- Tom Kelly, Automation Alley, Executive Director and CEO

### Breakout Session 2

**World Economic Forum: Position Paper on Additive Manufacturing**

Experts from the World Economic Forum, ETH Zurich, the Fraunhofer Institute and selected industry experts have created a white paper on the industrialization of AM. It demonstrates how AM can economically and successfully be used in industry and when AM advantages, such as weight reduction and functional integration, come into play. The authors will present their exciting position paper in this session.

**Participants:**
- Prof. Mirko Meboldt, ETH Zurich, Chair of Product Dev. & Eng. Design
- Felipe Bezamat, World Economic Forum, Head of Advanced Manufacturing Industry
- Daniel Omidvarkarjan, Inspire AG & ETH Zurich, Research Associate
- Matthias Schmitt, Fraunhofer Institute for Casting, Composite and Processing Technology IGCV, Head of Fraunhofer Team – WEF position paper Group leader Additive Manufacturing

### Blueprint Case Audi: Additive Manufacturing – Actual Situation, Use Cases and Outlook

**Participants:**
- Martin Bock, Audi AG, Project lead of the metal 3d-printing-center
- Dr. Erhard Brandl, Audi AG, Head of the plastic 3d-printing-center
Day 2 – October 13

Block E
12:15–13:30 CEST
ON-SITE

LUNCH OR BREAKOUT SESSION

12:30–13:15 CEST
ONLINE / ON-SITE

BREAKOUT SESSION 1
EDUCATING AM: HOW TO ENABLE ENGINEERS?

Educating new and established engineers is critical in industrializing AM. Four university professors from renowned universities discuss the question of how education systems need to change to build these required capabilities in engineers.

Moderator:
Sven Krause

Participants:
- Prof. Iskander Akhatov, Skolkovo Institute of Science and Technology, Director of the Center for Materials Technologies
- Prof. Johannes Henrich Schleifenbaum, RWTH Aachen University, Professor and Director DAP RWTH, Managing Director ACAM
- Prof. Anastasios John Hart, Massachusetts Institute of Technology, Professor of Mechanical Engineering
- Prof. Katrin Wudy, TU Munich, Professor for Laser-based Additive Manufacturing

BREAKOUT SESSION 2
NEW MATERIAL SOLUTIONS: OVERVIEW ON RECENT DEVELOPMENTS

One of AM’s advantages is the ability to create complex components from a wide variety of materials with very specific properties. Leading experts will present the latest developments in the field of AM materials.

Moderator:
Dr. Kerstin Reinsch, Oerlikon

Participants:
- Mikkel Pedersen, Oerlikon, Head of R&D Additive Manufacturing
- Pierre Forêt, Linde, Director R&D Additive Manufacturing
- Prof. Patrik Hoffmann, Empa, Swiss Federal Laboratories for Materials Science and Technology, Head of Laboratory for Advanced Materials Processing

Block F
13:30–14:00 CEST
ONLINE / ON-SITE

BLUEPRINT CASE SIEMENS: REPAIR TO IMPROVE: AN INDUSTRIAL PART UPGRADE USE CASE FOR MORE SUSTAINABILITY

Participants:
- Dr. Markus Seibold, Siemens Energy AG, VP Additive Manufacturing
- Dr. Karsten Heuser, Siemens Digital Industries, VP Additive Manufacturing

Block G
14:00–14:30 CEST
ONLINE / ON-SITE

BLUEPRINT CASE BOEING: ADDITIVE MANUFACTURING IN AEROSPACE: OPPORTUNITIES AND CHALLENGES ON THE ROAD AHEAD. RECENT EXAMPLE & SUCCESS: SATELLITES

Participants:
- Dr. Melissa Orme, The Boeing Company, VP Boeing Additive Manufacturing, Engineering, Test & Technology
- Nicholas Mule, The Boeing Company, Director of the Boeing Additive Manufacturing Intelligence Center
- Richard Aston, The Boeing Company, Principal Senior, Technical Fellow
## Day 2 – October 13

### Block H

**14:30 – 15:30 CEST**  
**BREAK OR BREAKOUT SESSION**

**14:40 – 15:20 CEST**  
**BREAKOUT SESSION 1**  
**INTERNATIONAL NORMS AND STANDARDS: WHAT’S MISSING?**

Many experts state that missing standards affects the entire AM process and hinders the industrialization of AM. In this panel, we examine this claim from different perspectives. The question is: What standards are really missing in AM?

**Moderator:**  
**Dr. Zara Larsen**, Oerlikon

**Participants:**
- **Marc Lee**, National Additive Manufacturing Innovation Cluster, Head IP & Commercialization
- **Wee Hong Goh**, TÜV SÜD PSB PTE Ltd, SVP, Product Service Asean
- **Klas Boivie**, SINTEF Manufacturing AS, Senior Research Scientist

**BREAKOUT SESSION 2**  
**INTERDISCIPLINARY SYSTEM SOLUTIONS: COLLABORATION AMONG THE VALUE CHAIN**

Comprehensive interdisciplinary collaboration with end-to-end consideration of all workflows in the AM process is needed to bring more AM products to market. Where are we today and what’s next? This session will provide insights on this topic.

**Moderator:**  
**Sven Krause**

**Participants:**
- **Andreas Hartmann**, Solukon Maschinenbau GmbH, Co-Founder, CEO/CTO
- **Dr. Sven Hicken**, Oerlikon, CTO Surface Solutions & Head of Business Unit Additive Manufacturing
- **Dr. Vino Suntharakumaran**, DMG Mori Additive GmbH, Managing Director
- **Paolo Gennaro**, GF Machining Solutions, Head of Additive Technologies
- **Dr. Simon Merkt-Schipper**, SLM Solutions Group AG, VP Product Management

### Block I

**15:30 – 16:30 CEST**  
**REPRODUCIBILITY: SUCCESS FACTORS FOR SCALING UP**

The reproducibility of components on different printers is one of the most important requirements for the successful industrialization of AM. This panel will address the current state, progress, and what needs to be accelerated in the future to achieve the goal of process stability.

**Participants:**
- **Frank L. Blaimberger**, TÜV SÜD, VP, Global Head of Advanced Manufacturing
- **Dr. Mohsen Seifi**, ASTM International, Director of Global Additive Manufacturing Programs
- **René Kreissl**, Trumpf GmbH + Co. KG, Head of Business Unit Additive Manufacturing
- **Markus Glasser**, EOS GmbH, SVP EMEA
- **Christine Kandziora**, Linde, Executive Director R&D – Manufacturing Market Segments
Day 2 – October 13

**Block J**
16:30 – 17:30 CEST

**AM 2030: AN INSPIRING LOOK INTO THE FUTURE**

To end the day, we take a look at the future potential of AM. What are possible applications with additive manufacturing in 2030? Which new fields and markets will AM open up? Looking to the future is a motivational boost for the AM community.

Participants:
- **Prof. Christian Seidel**, University of Applied Science Munich, full Professor for Manufacturing Technologies and Additive Manufacturing, Fraunhofer Institute IGCV, Head of Additive Manufacturing
- **Jürgen Tiedje**, Directorate Prosperity in the Directorate General for Research and Innovation of the European Commission, Head of the “Industrial Transformation” Unit

**Block K**
17:30 – 17:45 CEST

**SUMMARY AND CLOSING REMARKS**

- **Dr. Roland Fischer**, Oerlikon, CEO
Speakers Day 2

Prof. Nikolaus A. Adams
TU Munich
Chair of Aerodynamics and Flow Mechanics Dean of the Faculty of Mechanical Engineering

Richard Aston
The Boeing Company
Boeing Principal Senior Technical Fellow

Felipe Bezamat
World Economic Forum
Head of Advanced Manufacturing Industry at the World Economic Forum

Martin Bock
Audi AG
Project lead of the metal 3d-printing-center

Dr. Erhard Brandl
Audi AG
Head of the plastic 3d-printing-center

Dr. Jochen Eickholt
Siemens Energy AG
Member of the Executive Board

Pierre Forêt
Linde
Director R&D Additive Manufacturing

Markus Glasser
EOS GmbH
SVP EMEA

Prof. A. John Hart
Massachusetts Institute of Technology
Professor of Mechanical Engineering, MIT

Prof. Iskander Sh. Akhatov
Skolkovo Institute of Science and Technology
Director of the Center for Materials Technologies

Francisco Betti
World Economic Forum
Head of Advanced Manufacturing, ExCom Member

Klas Boivie
SINTEF Manufacturing AS
Senior Research Scientist

Dr. Melinda Crane
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Oerlikon
CEO

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Director R&D Additive Manufacturing

Paolo Gennaro
GF Machining Solutions
Head of Additive Technologies

Sherry Handel
AMGTA
Executive Director

Andreas Hartmann
Solukon Maschinenbau GmbH
Co-Founder, CEO/CTO
## Speakers Day 2

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<td>Singapore Economic Development Board EVP</td>
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<td>ETH Zürich Research Associate at Inspire AG and ETH Zurich</td>
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Achim Peltz
Siemens AG
CEO Motion Control

Prof. Johannes Henrich
Schleifenbaum
RWTH Aachen University
Professor and Director DAP RWTH, Managing Director ACAM

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Siemens Energy AG
VP Additive Manufacturing

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ASTM International
Director of Global Additive Manufacturing Programs

Joerg Spindler
Audi AG
Head of Manufacturing Engineering

Prof. Michael Süß
Oerlikon
Chairman

Sara Vermeulen-Anastasi
Oerlikon
SVP, Head of Group Communications

Dr. Kerstin Reinsch
Oerlikon
Global Head of Marketing & Communications of Business Unit Additive Manufacturing

Matthias Schmitt
Fraunhofer Institute for Casting Composite and Processing Technology IGCV, Head of Fraunhofer Team – WEF position paper Group leader Additive Manufacturing

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DMG Mori Additive GmbH
Managing Director

Juergen Tiedje
Directorate Prosperity in the Directorate General for Research and Innovation of the European Commission Head of the "Industrial Transformation" Unit

Prof. Katrin Wudy
TU Munich
Professor for Laser-based Additive Manufacturing
Day 3 – October 14

10:00 – 14:30 CEST

WORKSHOPS

- **Trumpf**: Reproducibility in laser powder bed fusion process – Status at TRUMPF, customer experience and requirements
- **TU Munich**: Simulation in Additive Manufacturing
- **Oerlikon**: Breaking performance barriers while balancing customized and standard processes
- **Siemens**: Empowering you to create, make and use additive applications at scale – the 5 how's of industrial AM!
- **RWTH Aachen**: Sustainable Productivity in Additive Manufacturing
CONTACT
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