

**1st munich
technology conference**

11–12 October 2017
TU Munich/Germany

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Additive Manufacturing

Industrialization, Applications, Business Models

With Top Speakers from

Aerospace, Airbus, Audi, Auto-
motive, BASF, BMW, Concept
Laser, Energy, EOS, Linde,
Lufthansa, Medical and Academia
including ACAM, MTU, Premium
Aerotec, RWTH Aachen, Siemens,
Skoltech, Trumpf, TU Munich,
TÜV Süd and more

munichtechconference.com

oerlikon

Bayerisches Staatsministerium für
Wirtschaft, Infrastruktur, Verkehr und Technologie



Technical
University
of Munich



The inaugural convention of leading AM experts

Additive Manufacturing (AM) is the most physical expression of the digital industrial revolution and a pillar of next-generation manufacturing technologies that will drive the factories of the future.

As the AM industry grows, both opportunities and challenges become clearer. As the first conference of its kind, the Munich Technology Conference brings together leading stakeholders of the AM technology to discuss trends, innovations, processes and where the industry is heading. It offers a platform for leading experts from the corporate, academic and political sectors to discuss the latest developments in AM industrialization, applications and business models. Participants get the opportunity to interact with and learn from pioneering practitioners.

This is an invitation only event. However, there are a limited number of seats available to interested applicants. Applications can be made under:

munichtechconference.com



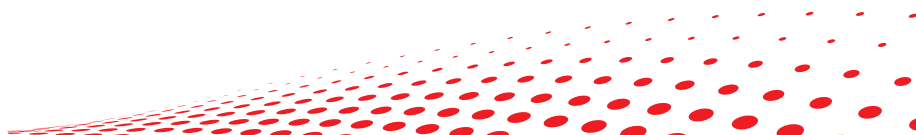
Topics of discussion

At the conference, leading experts from the corporate, academic and political sectors will discuss key trends and developments in AM.

- What are the most exciting AM applications in different industries?
- How will AM change industry business models in the next 10 years?
- What does it take for the breakthrough of AM as serious serial production technology?
- How can we drive the industrialization of AM?
- How can public–private partnership accelerate AM as a mainstream manufacturing technology?
- How can technology support manufacturing in developed countries?



Additively manufactured
distributor housing



Event Program

Day 1

11th October 2017

Block A

12:30–12:40

Dr. Melinda Crane

Block B

12:40–13:50

The AM Revolution: Hype, Threat or an Opportunity to change the World?

Quo vadis Additive Manufacturing? AM is currently raising expectations – it enables high-tech companies to increase their competitiveness, it helps developed countries to secure jobs and it creates new business models that will shift whole industries. Exalted representatives of politics, industry and science illuminate the relevance, possibilities and barriers of additive manufacturing on the way to a mainstream technology.

Industry: Prof. Michael Süß (Oerlikon Group)

Politics: Ms Ilse Aigner (Bavarian State Ministry)

Science: Prof. Horst Wildemann (TU Munich)

Moderation: Dr. Melinda Crane

13:50–14:15

Break/Networking

Block C

14:15–15:50

AM Technology: What's new?

During the last years, huge improvements in hardware, software and materials of Additive Manufacturing have been achieved. Experts will give insights into the most advanced solutions and highlight the current possibilities, challenges and limitations. In addition, they will risk a glance into the future.

Hardware: Dr. Hans Langer (EOS)

Software: Dr. Karsten Heuser, (Siemens)

Material: Dr. Justin Cheney (Scoperta)

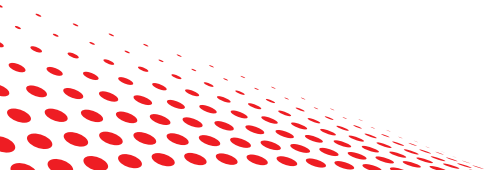
Material: Dr.-Ing. Sebastian Schillo (BASF)

Gas: Dr.-Ing. Christian Bruch (Linde)

Moderation: Dr. Melinda Crane and Prof. Iskander Akhatov (Skoltech)

15:50–16:20

Break/Networking



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Block D

16:20–17:45

AM Markets: New Industrial Frontiers

Additive Manufacturing is used across industry borders, but with different scope. Aerospace, automotive, energy and medical have various applications with varying requirements and challenges. How versatile AM already fulfills this diversity, which cross-industry and specific challenges have to be overcome and how the different industries could profit from each other will be discussed.

Aero: Michael Schreyögg (MTU Engines)

Automotive: Dr. Alexander Susanek (BMW)

Medical: Eric Lohrer (Lima)

Aero: Dr. Thomas Ehm (Premium AEROTEC)

Moderation: Dr. Melinda Crane and Dr. Johannes Witzel (ACAM Aachen)

Block E

17:45–18:15

AM Value Creation: Integrated Solution Provider

Solution providers need to combine material, software, engineering and service competences to produce high performance components. How can individual powder, single components, small services, mass production and spare parts be manufactured in the same factory and therefore create significant value for the customers without cannibalizing their business models? Dr. Fischer and Florian Mauerer are going to talk about Oerlikon's vision of AM.

Dr. Roland Fischer, CEO Oerlikon Group

Florian Mauerer, Head AM Oerlikon

Moderation: Dr. Melinda Crane

18:15–19:15

Transfer to dinner venue

Block F

19:15–19:30

Dinner Speech

Prof. Michael Süß

Prof. Wolfgang Herrmann

subject to change

A decorative graphic in the bottom right corner consisting of a grid of red dots that curves upwards and to the right, creating a sense of motion and depth.

Event Program

Day 2 12th October 2017

Block G
08:15–08:20

Welcome

Dr. Melinda Crane

Block H
08:20–09:00

AM Deep Dive: Specific Case Studies

Based on current applications the potential of additive manufacturing will be shown on a detailed level. Aerospace, hardware manufacturers, space, medical and automotive will present outstanding solutions, the challenges they faced, the limits they had to face and how to overcome this borders.

Aero: Christian Carjell (Lufthansa Technik)

Hardware: Tobias Baur (TRUMPF GmbH)

Space: Frank Mouriaux (RUAG Space)

Automotive: Wilfried Vette (Audi)

Medical: Dr. Erich Rembeck (ECOM)

Moderation: Dr. Melinda Crane

Block I
09:00–10:15

Manufacturing Re-imagined: AM's Impact on traditional Business Models

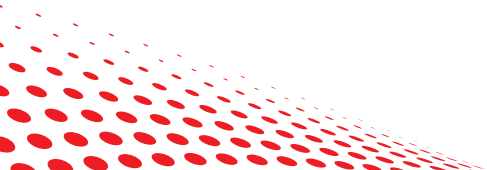
The breakthrough of Additive Manufacturing will have a tremendous impact on current business models. Experts will show up-to-date influences, their consequences and discuss future adaptations within different industries.

Aero: Paul Eremenko (Airbus)

Energy: Alf Henryk Wulf (GE Power)

Hardware: Frank Herzog (Concept Laser)

Moderation: Dr. Melinda Crane and Prof. Michael Zäh (TU München)



10:15–11:00 Break/Networking

Block J
11:00–12:30 **From Fiction to Factory – Success Factors enabling AM as a Serial Production Technology?**

What does it need that AM manages the breakthrough? Leading international specialists of industry, politics, science and certification authority will discuss the requirements to establish Additive Manufacturing as a serial production technology. Diverse opinions along the AM supply chain guarantee exciting insights and show us, what still has to be done.

Industry: Mohammad Ehteshami (GE)

Politics: Ralph Resnick (America Makes)

Science: Prof. Johannes Schleifenbaum (RWTH Aachen)

Quality: Prof. Axel Stepken (TÜV Süd)

Service Provider: Florian Mauerer (OC Oerlikon)

Moderation: Dr. Melinda Crane and Prof. Iain Todd (Univ Sheffield)

Block K
12:30–12:50 **AM as a driver to improve the state of the world?**

The World Economic Forum attested additive manufacturing a high potential to save the world and at the same to be a disruptive force. Dr. Rösler is going to explain if, in which segments and how additive manufacturing is able to improve our world today and in the near future.

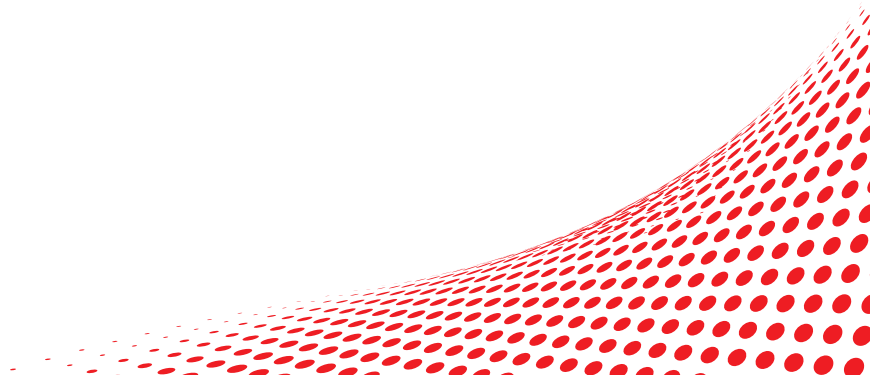
Dr. Philipp Rösler

Moderation: Prof. Michael Süß

Block L
12:50–13:00 **Conference wrap-up**

Prof. Michael Süß

Moderation: Dr. Melinda Crane



Speakers

With top speakers from aerospace, automotive, energy, medical industries, politics and academia.



Ms. Ilse Aigner

Bavarian State Minister of Economic Affairs and Media, Energy and Technology



Prof. Iskander Akhatov

Professor
Skolkovo Institute of Science and Technology



Mr. Tobias Baur

Head of Additive Manufacturing
TRUMPF GmbH + Co. KG



Dr.-Ing. Christian Bruch

Member of the Executive Board
Linde AG



Dr. Melinda Crane

Journalist and Moderator



Dr. Thomas Ehm

Chief Executive Officer
Premium AEROTEC GmbH



Mr. Mohammad Ehteshami

Vice President & General Manager
GE Additive



Dr. Roland Fischer

Chief Executive Officer
Oerlikon Group

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**Univ.-Prof. Dr. Dr. h.c. mult.
Wolfgang A. Herrmann**
Professor
TU München



Mr. Frank Herzog
Chairman & Chief Executive Officer
Concept Laser GmbH



Dr. Karsten Heuser
Competence Center AM
Siemens AG



Dr. Hans J. Langer
Executive Chairman
EOS Group



Mr. Eric Lohrer
Board Member
Lima



Mr. Florian Mauerer
Head of BU Additive Manufacturing
Oerlikon Group



Mr. Paul Eremenko
Chief Technology Officer
Airbus



Mr. Franck Mouriaux
General Manager Structures
RUAG Schweiz AG

Speakers



Dr. med. Erich Rembeck
Orthopedist
ECOM



Mr. Ralph Resnick
Founding Director
America Makes



Dr. Philipp Rösler
Member of the Managing Board
World Economic Forum



Dr.-Ing. Sebastian Schillo
Team Leader Fine Mechanics
BASF SE



Prof. Dr.-Ing. Johannes H. Schleifenbaum
Professor
RWTH Aachen



Mr. Michael Schreyögg
Chief Program Officer
MTU Aero Engines



MD Dr. Bernhard Schwab
Director
Bavarian State Ministry of Economic
Affairs and Media, Energy
and Technology



Prof. Dr.-Ing. Axel Stepken
Chief Executive Officer
TÜV SÜD

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Prof. Dr. Michael Süß
Chairman
Oerlikon Group



Dr. Alexander Susanek
Head of Production Plant 0
BMW Group



Prof. Iain Todd
Director of Future Manufacturing Hub,
Professor of Metallurgy
The University of Sheffield



**Univ.-Prof. Dr. Dr. h.c. mult.
Horst Wildemann**
Professor
TU München



Dr.-Ing. Johannes Witzel
Chief Executive Officer
ACAM Aachen Center for Additive
Manufacturing



Mr. Alf Henryk Wulf
Chief Executive Officer
GE Power AG



Prof. Dr.-Ing. Michael Zäh
Professor
TU München



Mr. Christian Carjell
Project Manager AM
Lufthansa Technik AG



Mr. Wilfried Vette
Head of Toolmaking Plant Ingolstadt
Audi AG

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Contact

Technical University of Munich
Audimax, Arcisstr. 21
80333 München, Germany

Get there by public transportation

-  Train: München Hauptbahnhof (+U2)
-  Underground (U2): Theresienstraße
-  Tram (27/28): Pinakothek
-  Bus (100): Technische Universität
-  There are limited, paid parking options in Theresienstraße and Luisenstraße.



Audimax

The two-day conference will take place at the Audimax of the Technical University of Munich.

Munich

Located in the south of Germany, the Bavarian capital of Munich is home to 1.5 million people and numerous leading industry and service companies, as well as the world-renowned Technical University of Munich. Visitors from across the globe are attracted by cultural highlights such as the annual Oktoberfest, the Deutsches Museum – the world's largest museum of science and technology – the many galleries and the Bavarian way-of-life.

