

Additive Manufacturing / 3D Printing Standards Forum



Formnext 2018, November 14, 2018, Hall 4.C, Room Concorde, Frankfurt Messe

Leading experts from industry, research institutions, standards development organizations, professional societies, and government will address key themes focused on standards development in Additive Manufacturing (AM)/3D Printing technologies. The event will focus on recent progress in the development and use of international standards for AM/3D printing and how the use of these standards can help this burgeoning industry achieve its promised potential. Participants will also learn about the *Standardization Roadmap for Additive Manufacturing* produced by America Makes, the American National Standards Institute ([ANSI](#)), and the Additive Manufacturing Standardization Collaborative ([AMSC](#)). Participation is free.



Federal Ministry
for Economic Affairs
and Energy

Schedule (all times p.m.):

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Event language: English

1:30-1:45 Opening Statements

- Moderator: Terry Wohlers, President, Wohlers Associates, Inc.
- John McCaslin, Minister Counselor for Commercial Affairs and Regional Senior Commercial Officer, U.S. Commercial Service, U.S. Embassy Berlin
- Dr. Thomas Zielke, Head of Division, Industry Standards, Technology Transfer, Patents, Federal Ministry for Economic Affairs and Energy

1:45-2:45 International Collaboration Efforts on Additive Manufacturing Standards
An overview of the AM Standards landscape featuring European and U.S. perspectives; the role of different participants, including the technical committees ISO/TC 261 and F42; connections between ISO/TC 261 and CEN/TC 438 (via the Vienna Agreement); an overview of the AMSC; next-steps of the AMSC, including which gaps must be addressed and how will industry benefit by using these standards.

- *“NIST Perspectives on the State of Additive Manufacturing Standards”*
 - Kevin Jurens, Deputy Chief, Intelligent Systems Division, National Institute of Standards and Technology (NIST)
- *“Overview of and Opportunities to Collaborate with the AMSC”*
 - Jim McCabe, Senior Director, Standards Facilitation, American National Standards Institute; Advisory Group Member, AMSC
- *“International Collaboration Efforts on Additive Manufacturing Standards”*
 - Benjamin Hein, Senior Team Manager, German Institute for Standardizations (DIN)

2:45-3:00 Break

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3:00-5:00 Industry Discussion—Utilizing AM Technology and the Impact of Standards
 Technical experts from a variety of industries will analyze opportunities and gaps in current standards development activities.

- *Standards Development Organization Representatives*
 - John Clatworthy, Aerospace Standards Engineer Team Lead - Europe, SAE International
 - Pat A. Picariello, J.D., CStd, FSES, Director, Developmental Operations, ASTM; ASTM F42 on Additive Manufacturing Technologies
 - Dr. Christian Seidel, Designated Chair of ISO/TC 261, Director Strategy and Institute Development, Head AM, Fraunhofer IGCV
- *Company Representatives*
 - Engines & Turbomachinery: Dr. Roland Herzog, Head of Material Technology, MAN Energy Solutions
 - Medical Device: Laura Gilmour, Global Medical Business Development Manager, EOS
 - Metal 3D Printing: Dr. Dieter Schwarze, Head of Science and Technology Research, SLM Solutions
 - Aerospace: Donald Godfrey, Engineering Fellow, Additive Manufacturing, Honeywell Aerospace

5:00 Concluding Remarks and Adjournment

- Moderator: Terry Wohlers, President, Wohlers Associates, Inc.

5:30 - 7:00 Networking Event

Target Audience:

Representatives of U.S. & EU standards development organizations; U.S., European and other international companies; industry associations; government.

Registration:

Register [online in English](#) or [online in German](#). Send any questions you have to: Ken.Walsh@trade.gov and Kirsten.Hentschel@trade.gov.

Speakers, Sponsors and Supporting Organizations:

