

**MEETING AGENDA**

**America Makes & ANSI Additive Manufacturing Standardization Collaborative (AMSC)**

***Design for Additive Manufacturing (AM) Virtual Event***

Wednesday, March 31, 2021, 11:00 am – 4:00 pm Eastern

**Advance Registration Required ([Link to Register](#))**

*This virtual event brings together subject matter experts from industry, government, and academia for a discussion that will help to lay the groundwork for further development/refinement of the AMSC [Standardization Roadmap for Additive Manufacturing](#), last published in June 2018. This includes discussion of the following:*

- *Standards that have been published or that are in development to fill gaps identified in the roadmap*
- *Potential focus areas for standards development based on new technology developments and applications*

*[Speaker biographies](#) are provided separately.*

<b>Time</b>	<b>Discussion Topic and Speaker</b>
10:00 – 11:00 am	<b>Registration and Networking</b>
11:00 – 11:10 am	<b>Welcome</b> <ul style="list-style-type: none"> <li>• Jim McCabe, Senior Director, Standards Facilitation, ANSI</li> <li>• Brandon Ribic, Ph.D., Technology Director, America Makes</li> </ul>
11:10 am – 1:10 pm	<b>Session 1: Development of Industry Standards and Guidance Documents</b> This session will feature presentations on AM design-related work in ASTM F42/ISO TC 261, NIST, ASME, MMPDS, and CMH-17, followed by Q&A <ul style="list-style-type: none"> <li>• Moderator: Jim Williams, President, All Points Additive, and AMSC chair</li> <li>• David W. Rosen, Ph.D., Professor, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology               <ul style="list-style-type: none"> <li>○ Overview of joint work between ASTM F42 and ISO/TC 261:                   <ul style="list-style-type: none"> <li>- AM file format</li> <li>- General design requirements and guidelines</li> <li>- process-specific design guides (e.g., PBF for both metals and polymers, DED, binder jetting, material extrusion)</li> <li>- design for post-processing</li> <li>- complex structures: simulation and modeling</li> </ul> </li> </ul> </li> <li>• Paul Witherell, Ph.D., Mechanical Engineer, National Institute of Standards and Technology               <ul style="list-style-type: none"> <li>○ ASTM F42/ISO TC 261 JG 73 on design for data packages</li> <li>○ NIST work on common data dictionary for AM data</li> </ul> </li> <li>• George Rawls, P.E., Senior Fellow Engineer, Savannah River National Laboratory               <ul style="list-style-type: none"> <li>○ ASME work on boilers &amp; pressure vessels</li> </ul> </li> <li>• Darrell Wallace, Ph.D., Deputy Director and Chief Technology Officer, SecureAmerica Institute, Texas A&amp;M University               <ul style="list-style-type: none"> <li>○ ASME work on product definitions for AM (Y14.46)</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Doug Hall, MMPDS Program Manager, Sr. Mechanical Engineer, Battelle Memorial Institute <ul style="list-style-type: none"> <li>○ MMPDS work on design allowables/material properties for metals</li> </ul> </li> <li>• Curtis Davies, Senior Research Engineer, Federal Aviation Administration <ul style="list-style-type: none"> <li>○ CMH-17 work on design allowables/material properties for polymers</li> </ul> </li> </ul>
1:10 – 1:45 pm	<b>Lunch / Networking Break</b>
1:45 – 3:30 pm	<p><b>Session 2: End User Perspectives on Design for AM Considerations</b></p> <p>This session will be a panel discussion featuring industry and government representatives from the aerospace, defense, and medical sectors.</p> <ul style="list-style-type: none"> <li>• Moderator: Lauralyn McDaniel, Industry Events Manager, ASME, AMSC vice chair</li> <li>• Jesse Boyer, Fellow, Additive Manufacturing, Pratt &amp; Whitney</li> <li>• John Schmelzle, P.E., NAWC Lakehurst Additive Manufacturing and Model Based Definition Initiative Lead, Support Equipment Dept., Naval Air Warfare Center Aircraft Division Lakehurst, NAVAIR</li> <li>• Steven Floyd, Space Additive Manufacturing Engineering Lead, Northrop Grumman</li> <li>• Douglas N. Wells, NESC Deputy Technical Fellow for Materials, Damage Tolerance Assessment Branch, NASA MSFC</li> <li>• Ryan O’Hara, Ph.D., Technical Director for Aerospace and Defense, nTopology</li> <li>• Laura Gilmour, Senior Healthcare Development Manager, EOS North America</li> <li>• James Coburn, CDR, USPHS, Senior Advisor for Emerging Technologies, Food and Drug Administration</li> <li>• Michael Gorelik, Ph.D., Chief Scientist, Fatigue and Damage Tolerance, FAA</li> </ul>
3:30 – 3:40 pm	<p><b>Closing Remarks</b></p> <ul style="list-style-type: none"> <li>• Brandon Ribic and Jim McCabe</li> </ul>
3:40 – 4:00 pm	<b>Networking</b>