



**AGENDA: VIRTUAL EVENT**

**[America Makes & ANSI Additive Manufacturing Standardization Collaborative \(AMSC\)](#)  
***Inspection/Monitoring to Meet Regulatory Requirements: Additive Manufacturing (AM) Standardization*****

December 8, 2021

**Advance Registration Required ([Link for Attendee Registration](#))**

**Speakers have been registered automatically**

*This virtual event brings together subject matter experts from various sectors for a discussion that will help to further develop and refine the AMSC [Standardization Roadmap for Additive Manufacturing](#), last published in June 2018. This includes discussion of the following:*

- *What applied research, standards, guidance documents, or conformance programs exist/are in development for inspection/monitoring, especially in-situ process monitoring or nondestructive evaluation (NDE), to meet regulatory requirements of additively manufactured parts?*
- *What issues or gaps exist, particularly related to inspection/monitoring (in-situ or NDE), to facilitate certification of additively manufactured parts?*

**Speaker Bios** are provided separately.

Time	Discussion Topic and Speaker
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: Presentations on Applied Research, Industry Standards, Guidance Documents, Conformance Programs</b> Moderator: Jim McCabe, ANSI <b>Confirmed Speakers:</b> <ul style="list-style-type: none"> <li>• Erin Lanigan, Materials Engineer   EM21, Damage Tolerance Branch, Non-Destructive Evaluation Team, NASA Marshall Space Flight Center</li> <li>• Dr. Ehsan Toyserkani, Professor and Canada Research Chair in Additive Manufacturing, University of Waterloo</li> <li>• Dr. Abdalla Nassar, Associate Research Professor, Head of Process Physics, Analytics, and Engineering Department, Applied Research Laboratory, Pennsylvania State University</li> <li>• Solomon Duning, Research Engineer, Additive Manufacturing Technology Development, Structural Materials, University of Dayton Research Institute</li> </ul>

	<ul style="list-style-type: none"> <li>• Robert Badrak, Materials Consultant, Weatherford (on behalf of AMPP: Association for Materials Protection and Performance)</li> </ul>
1:10 – 1:45 pm	<b>Break</b>
1:45 – 3:25 pm	<p><b>Session 2: Panel Discussion on Inspection/Monitoring (in-situ or NDE) to Facilitate Certification of AM parts</b></p> <p>Moderator: Dr. Brandon Ribic, America Makes</p> <p><b>Confirmed Speakers:</b></p> <ul style="list-style-type: none"> <li>• Eric Biedermann, Engineering Manager, Vibrant Corporation</li> <li>• Nicholas Mulé, Director, Additive Manufacturing Intelligence Center, Boeing Additive Manufacturing</li> <li>• Dr. Cambre Kelly, Vice President of Research and Technology, restor3D</li> <li>• Patrick Howard, Consulting Engineer Nondestructive Investigation, GE Aviation</li> <li>• Dr. Abdalla Nassar, Head of Process Physics, Analytics, and Engineering Department, Associate Research Professor, Applied Research Laboratory, Pennsylvania State University</li> <li>• Gene Kulesha, Senior Director, Advanced Engineering, Onkos Surgical</li> <li>• Erin Lanigan, Materials Engineer   EM21, Damage Tolerance Branch, Non-Destructive Evaluation Team, NASA Marshall Space Flight Center</li> </ul>
3:25 – 3:30 pm	<p><b>Closing Remarks</b></p> <ul style="list-style-type: none"> <li>• Brandon Ribic and Jim McCabe</li> </ul>