

— Call for Papers —  
A Symposium on  
**Additive Manufacturing of Ceramics, Concretes, and Composites**

Sponsored by the ASME Manufacturing Engineering Division's  
*Manufacturing Processes Technical Committee*  
2019 ASME International Manufacturing Science and Engineering Conference (MSEC)\*  
June 10-14, 2019  
Erie, Pennsylvania  
Hosted by Pennsylvania State University, The Behrend College

### Technical Focus

The popularity of additive manufacturing of ceramics, concretes, and composites has gained a lot of impetus in the recent years. These important engineering materials can significantly enrich the palette of additive manufacturing. Compared with metals and polymers, ceramics, concretes, and composites are usually more difficult to process due to their high melting point, complex chemistry, or multiple constituent phases. This symposium will focus on the research advances on additive manufacturing of ceramics, concretes, and composites. Specific topics of interest include, but are not limited to:

- Modeling and simulation related to additive manufacturing of ceramics, concretes, and composites
- Material design for additive manufacturing of ceramics, concretes, and composites
- Feedstock material preparation for additive manufacturing of ceramics, concretes, and composites
- Innovative additive manufacturing processes for ceramics, concretes, and composites
- Process optimization for additive manufacturing of ceramics, concretes, and composites
- Process monitoring and control for additive manufacturing of ceramics, concretes, and composites
- Microstructural characterization of additively manufactured ceramics, concretes, and composites
- Heat treatment of additively manufactured ceramics, concretes, and composites
- Surface finishing of additively manufactured ceramics, concretes, and composites
- Properties of additively manufactured ceramics, concretes, and composites
- Emerging Applications of additively manufactured ceramics, concretes, and composites
- Sustainability and life cycle analysis of additively manufactured ceramics, concretes, and composites

### Paper Submission

Authors are encouraged to submit an abstract and full manuscript for review by **November 02, 2018** via the conference website. Final revised manuscripts must be submitted by **March 15, 2019**. The copyright transfer form must be filled out by March 8, 2019, and the presenting author must pre-register by **April 05, 2019**; or the paper will be withdrawn from the conference. Authors may also consult [www.asme.org/divisions/med/call/](http://www.asme.org/divisions/med/call/) for updates. **No papers are to be submitted to the organizers; submissions will only be accepted via the conference website at [www.asmeconferences.org/msec2019/](http://www.asmeconferences.org/msec2019/).**

### Additional Symposium Activities

To highlight advancements in this technical area, symposium organizers will:

- Work to attract a high profile international keynote speaker
- Organize a special issue in the ASME Journal of Manufacturing Science and Engineering
- Organize a state-of-the-art paper that will be the lead article in the special issue

### Organizers:

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\* The conference is collocated with NAMRI/SME's 47th North American Manufacturing Research Conference (NAMRC47), which will have a separate call-for-papers. Please note that submissions of the same paper to more than one conference are not permitted.