



Call for Abstracts

Track 12: Mechanics of Solids, Structures, and Fluids

Topic 12-2: 3D Printed Soft Materials

Submit abstracts at: <https://www.asme.org/events/imece>

Abstract submission deadline: **July 23rd, 2018**

(Note: This topic accepts “presentation only” abstracts. No papers will be accepted.)

We would like to invite you to submit an abstract to the topic on 3D Printed Soft Materials at the ASME 2018 IMECE to be held from November 9 to November 15, 2018 in Pittsburgh, PA.

Additive manufacturing, also known as 3D printing, offers unique opportunities to explore novel properties and mechanics of soft materials. This topic calls abstracts from research efforts related to soft materials with novel properties realized or created using 3D printing techniques. Specific topics of interest include, but are not limited to:

- Mechanics of 3D printed materials, such as their constitutive behaviors and failure behaviors
- Novel printing technologies for soft materials
- Printable materials with improved or new functionalities
- Printed soft active materials or composites that respond to various stimuli (i.e. the 4D printing)
- Printed soft metamaterials with novel properties, such as acoustic properties, negative Poisson's ratio, etc.
- Design theory or methodology for soft materials that will be realized through 3D printing
- Applications of 3D printed soft materials or composites

We are delighted to announce that the two distinguished speakers below confirmed to give keynote presentations in our symposium.

- **Professor H. Jerry Qi** (Georgia Institute of Technology)
- **Dr. Christopher Spadaccini** (Lawrence Livermore National Lab)

Should you have any questions, please feel free to contact us.

We look forward to receiving your contributions and seeing you in Pittsburgh!

Topic Organizers

Howon Lee, Assistant Professor, Rutgers University – New Brunswick

Sung Hoon Kang, Assistant Professor, Johns Hopkins University

Kai Yu, Assistant Professor, University of Colorado – Denver

Qiming Wang, Assistant Professor, University of Southern California

Sponsored by Soft Materials Technical Committee of Applied Mechanics Division