Call for Papers – ASEE Manufacturing Division

ASEE Annual Conference & Exposition, Columbus, Ohio, June 25 – 28, 2017

The Manufacturing Division of the American Society for Engineering Education invites abstract submissions for the 2017 ASEE Annual Conference. Papers and presentations related to manufacturing education, practice and assessment in all areas of manufacturing, with particular attention to new and emerging topics of manufacturing education will be considered. Submissions must include content related to educational issues. Suggested topics include, but are not limited to:

• Design and development of innovative learning materials and teaching strategies for manufacturing education
• Advances in additive and hybrid manufacturing for education
• Four-pillars of manufacturing engineering
• Implementation of new technology into manufacturing education, such as nano/micro-manufacturing, biomedical manufacturing, automation and robotics, additive manufacturing, energy manufacturing, and digital manufacturing
• Integration of current issues into manufacturing education, such as globalization, lean/green manufacturing, alternative energy resources, supply chain
• Implementation of sustainability into manufacturing education, such as materials, sustainable product/process design, energy efficiency, waste recycle, life cycle assessment, and emerging potentials
• Implementation of instructional technology such as simulation tools, virtual, remote labs and distance learning
• Integration of research and development into manufacturing programs
• Industry-based projects and capstone experiences
• STEM integration in the classroom, laboratory, and projects from design to prototype and manufacturing
• P16 STEM projects and integration of manufacturing engineering into K-12 curricula
• Entrepreneurship and engineering innovation
• Government policy and manufacturing education
• ABET and ATMAE Accreditation related topics
• Successful stories and best practices in Manufacturing Innovation

Make It! This hands-on session is organized by the Manufacturing Division but supported by other divisions of the ASEE. Poster presentations often include 3D printed models, artistic works, fun projects, robotics, and unique projects. Eclectic and multidisciplinary submissions are encouraged. A paper is required but may be written in the form of a how-to that allows others to reproduce the work. Abstracts for this session should begin with the word 'MAKER:' in upper case. This is an excellent venue for personal hobbies and student projects.

The ASEE Manufacturing Division is a publish-to-present division which selects an overall best division presentation and overall best division paper. A certificate or plaque will be provided to awardees. Specific information about deadlines and guidelines will be available *at http://www.asee.org/ conferences-and-events/conferences.* Questions may be directed to the 2016-2017 ASEE Manufacturing Division Program Chair:

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