

Call for Papers

Integrated Computational Materials Engineering (ICME) for Structures

**AIAA SciTech 2017, the new home of the
58th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference
January 9-13, 2017
Gaylord Texan Resort & Convention Center
Grapevine, Texas**

The AIAA (American Institute of Aeronautics and Astronautics) Structures Technical Committee (STC) is very pleased to announce a call for papers to be presented in a series of special sessions on **Integrated Computational Materials Engineering (ICME)** within the AIAA SciTech conference. ICME initiatives focus on the integration of materials information, captured in computational tools, with engineering product performance analysis and manufacturing process simulation (references: [NAP 2008](#), [NSTC 2011](#)). The coordinated efforts of ICME and the Materials Genome Initiative (MGI) aim to deliver the required infrastructure and training to accelerate innovation, discovery, development, validation and use of advanced materials and manufacturing processes as an integral part of next generation multi-disciplinary design/make with a focus on designing for affordability. The presentations addressed in this symposium are affiliated and compliments the efforts of ASM International ([AeroMat](#) & [Computational Materials Data Network](#)), [TMS](#), [ASME](#) and SciTech short courses for ICME.

To this end, the STC Technical Committee is soliciting papers with recent research, technological advancements, and systems level perspectives that address issues/challenges involved in the integration of computational materials models and design/structures over multiple length scales from “processing” to “performance”, with emphasis on structural performance. The end goal of the session is to table challenges and solutions which will facilitate successful implementation of ICME concepts in industry and research labs. The committee welcomes submissions from government, industry, academic, and small businesses.

Abstracts of no less than 1,000 words due June 7, 2016
Author notification of paper acceptance in August, 2016
Final paper due December 6, 2016

Abstracts must be submitted online at:
<http://www.aiaa-scitech.org/>

Make sure to select the “ICME” abstract topic option when prompted during submission
Please notify us (focal points below) if you are planning to submit an abstract so that we can ensure that it is included in these sessions. Please also include the line “For ICME Special Sessions” above the title of your extended abstract. For more information contact one of the following organizers:

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