

A Symposium for ICCES 2010 Conference

“NANOSTRUCTURED MATERIALS”

The aim of the symposium is to bring together researchers to discuss recent research advances and challenges in understanding of the materials structure-property relationships, mechanics, and modeling of nanostructured materials. The design of micro/macro structural systems and devices for the next-generation high-technology materials necessitates a hand-in-hand collaboration of experimental and modeling methods. The ability to predict material behavior relies on a fundamental understanding of the structure-property relationships and material behavior across various time and length scales, as well as design of models based upon identification of microscopic material response that leads to fundamental understanding of the behavior of materials macroscopic. The aim of the symposium is to build an integrated computational materials engineering (ICME) capability for nanostructured materials. The symposium invites abstracts to discuss the recent progress in the following areas:

- Mechanics of Nanostructured Materials (Metals, Ceramic, Composites, etc.)
- Modeling across length and time scales; Multiscale Modeling Methods
- Materials Response to High Strain Rate Deformation
- Nanostructured Materials for Energy Applications

For further information, please contact one of the organizers:

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