

EML Special Issue Call for Papers

Focus Issue on “Mechanics in Extreme Manufacturing”

The *Extreme Mechanics Letters* themed Issue on *Mechanics in Extreme Manufacturing* aims to present the fundamental mechanics of manufacturing in extreme conditions. Extreme manufacturing techniques driven by next-generation multifunctional materials, structures and devices of relevance to energy, environment, healthcare and security are emerging. It now seems particularly timely to publish a focused set of articles to review, investigate and explore underlying mechanics in extreme manufacturing techniques, thereby establishing extreme manufacturing process–structure–property–function paradigms and initiating future manufacturing techniques.

Special emphasis will be on:

- Mechanics of manufacturing in extreme conditions (e.g. high temperature, high pressure, liquid environment, laser radiation, rapid exploration)
- Mechanics-guide unusual techniques of manufacturing, processing and fabrication with applications to extreme environments (e.g. self-assembly, transfer printing, crack/buckling/delamination-driven templating, collapse of soft materials)
- Mechanical properties and functionalities of materials and structures manufactured via extreme conditions (e.g. high temperature, high loading rate, large deformation, strong laser/nuclear radiation, nanoconfinement)
- Modeling and simulation of materials deformation in manufacturing in extreme conditions

Manuscript Submission:

Manuscripts should be formatted and be submitted online according to the instructions for *Extreme Mechanics Letters* at <http://www.elsevier.com/journals/extreme-mechanics-letters/2352-4316/guide-for-authors>. The authors must select “**SI: Manufacturing**” when specifying the “Article Type” in the submission system via <http://ees.elsevier.com/eml/default.asp>. All submissions will undergo the peer review process. The papers will be published online as soon as they are accepted.

Timelines:

Submission start: 15 September 2015

Submission deadline: 15 December 2015

Acceptance deadline: 15 February 2016

Guest Editors:

Dr. Baoxing Xu, University of Virginia

bx4c@virginia.edu

Dr. Xiaodong (Chris) Li, University of Virginia

xl3p@virginia.edu

Dr. Horacio D. Espinosa, Northwestern University

espinosa@northwestern.edu