



Multiscale Materials Modeling VII International Conference “The Microstructural Frontier”

October 6-10, 2014

Berkeley Marina, San Francisco Bay, California



A call for symposium proposals

Multiscale materials modeling has grown to become a defined area of materials research with its own history. Six bi-annual forums of the MMM series held so far have served to overview the current and steer the future developments in materials simulations towards more realistic and therefore more complex materials models and computational algorithms. Given that much of the observed complexity emerges at various microstructural length scales, it appears important for the MMM community to further focus on advancing our understanding of and capabilities for modeling material microstructure and its evolution. With this important need in mind, we define the overall theme for MMM 2014 to be “The Microstructural Frontier”. In reference to the pioneering spirit of the American West, we would like to focus attention of the MMM community on the inadequacy of exiting capabilities for quantitative modeling of materials microstructural evolution and on the wide open and still unexplored horizons for developing the needed capabilities in the future.

The 7th MMM International Conference will be held in October 6-10, 2014 at the Berkeley Marina Hotel in the heart of the San Francisco Bay Area that is home to Silicon Valley and a number of major materials research centers at Stanford University, University of California Berkeley, University of California Davis, Sandia, Lawrence Livermore and Lawrence Berkeley National Laboratories. Our plan is to hold a single plenary session every morning followed by 4-5 parallel breakouts focused on various aspects of multiscale materials modeling. For each Symposium, we plan to invite 1-3 plenary overview talks and to budget two full days of invited and/or contributed oral presentations followed by evening poster sessions, for a total of 8-9 parallel symposia.

The purpose of this first announcement is to solicit proposals for Symposia from individual researchers and from research groups. We would like to see proposals focused on physical, computational and experimental challenges presented by the need for accurate microstructure simulations and on emerging ideas and methods for addressing these challenges. Our suggested format for symposium proposals is simple: a title followed by a brief synopsis - possibly a bulleted list - defining the focus of the proposed symposium, proposed symposium organizers and their contact numbers and the names of potential invited speakers. The proposal should be no more than one page long.

Please send your proposal to Prof. Wei Cai at caiwei@stanford.edu by Oct. 15, 2013 and feel free to forward this announcement to others who might be interested.

Local Organizers

W. Cai, Chair (Stanford)

G. Galli (UC Davis)

A. Arsenlis (LLNL)

A. Minor (UC Berkeley)

V. Bulatov (LLNL)

Deadline for proposals

October 15, 2013