

Sandia organizes two International Symposia at TMS 2013 related to Multiscale Materials Science

The Predicting Performance Margins (PPM) program seeks to build a stronger Materials Science foundation at Sandia through the development of multiscale experimental and computational materials tools related to the stochastic deformation and failure of structural metals. In this topic area, the largest international Materials Science conference is the TMS Annual Meeting, holding its 142nd meeting next week in San Antonio, TX. Members of the Predicting Performance Margins (PPM) team are organizing two separate PPM-centric symposia at the conference, which attracts over 4000 materials scientists. The first symposium, entitled “Modeling and Experimental Validation of Multiscale Mechanical Behavior from Atomic Scale to Macro Scale” is organized by PPM Principal Investigator Brad Boyce and recent Task 1 lead Jonathan Zimmerman, along with organizers from Los Alamos, Case Western Reserve, and Carnegie Mellon. This symposium hosts 112 presentations and posters including a kick-off invited talk from PPM collaborator Prof. Diana Farkas at Virginia Tech, speaking on “Atomistic modeling of deformation mechanisms and crack initiation at grain boundaries”. The second symposium is titled “Synergies of Computational and Experimental Materials Science II” organized by PPM Task 2 investigator, Tom Buchheit as well as organizers from University of Michigan, Carnegie Mellon, and the Naval Research Lab. There are 43 presentations, most of which are relevant to Sandia’s PPM program, including an invited talk by Prof. Paul Dawson at Cornell University speaking on “Orientation fragmentation in polycrystals subjected to large-strain deformation”. Sandia is sending 17 staff members to the conference, including 9 investigators from the PPM project.

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Welcome to the **TMS 2013 Annual Meeting & Exhibition** conference web site!
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