



2017 Workshop on Methods for 3D Microstructure Studies

July 17-18, 2017

Agenda

Day 1, Monday, July 17, 2017

08:45 – 09:00	Greg Rohrer	Carnegie Mellon University	Introductions and overview of the workshop
09:00 – 10:00	Nikhilesh Chawla	Arizona State University	Keynote Lecture: Imaging Materials in 3D
10:00 – 10:30	Sean Donegan	Air Force Research Laboratory	Overview of Dream.3D
10:30 – 10:45			Break
10:45 – 11:30	Bob Suter	Carnegie Mellon University	Non-destructive 3D microstructure studies with HEDM
11:30 – 12:15	Marc De Graef	Carnegie Mellon University	Dictionary Approach to EBSD imaging
12:15 – 1:30			Lunch Break (boxed lunches provided)
1:00 – 1:30	Tom Nuhfer	Carnegie Mellon University	Tour of Microscopy Lab (optional)
1:30 – 2:30	Sean Donegan	Carnegie Mellon University	Analysis of serial section data using DREAM.3D
2:30 – 3:30	Sean Donegan	Air Force Research Laboratory	Generating 3D microstructures with DREAM.3D
3:30 – 3:45			Break
3:45 – 4:15	Greg Rohrer	Carnegie Mellon University	Measuring grain boundary populations, energies, and curvatures
4:15 – 5:15	Sean Donegan	Air Force Research Laboratory	Meshing & Smoothing microstructures using DREAM.3D
5:15 – 7:00	All		Refreshments provided on the MSE Deck

Note for day 1. For those planning to participate in the tutorial for plugin development on Day 2, it is recommended that you set up the development environment on your computer in advance. A representative of BlueQuartz Software will be available throughout Day 1 to assist with this. If you prefer to begin this prior to the workshop, contact Mike Jackson at mike.jackson@bluequartz.net.

