

EBSD 2010 Technical Symposium Program

Tuesday, May 25, 2010

8:20-8:30		Organizers	Welcome and Logistics
8:30-9:10	<i>Session Chair</i>	<i>Fournelle</i>	
9:10-9:30	Invited	Reddy	Integrating EBSD with High Spatial Resolution Geochemistry and Some Geological Applications
9:30-9:50	Contributed	Huberty	Silician Magnetite from the Dales Gorge Banded Iron Formation
9:50-10:00	Contributed	Moser	Investigating Zircon Microstructures in Impact Environments
	Discussion		
10:00-10:20	Break		
	<i>Session Chair</i>	<i>Brewer</i>	
10:20-11:00	Invited	Hacker	Velocity Anisotropy of Earth's Lower Crust from EBSD
11:00-11:20	Contributed	Claves	Crystallographic Texture Influence on Young's Modulus for Alloy 600 Welds
11:20-11:40	Contributed	Brownlee	Seismic Anisotropy from Electron Backscattered Diffraction (EBSD) Measurements of Crystal Preferred Orientation (CPO): Factors Contributing to Uncertainty
11:40-11:50	Discussion		
11:50-1:00	Lunch		
	<i>Session Chair</i>	<i>Michael</i>	
1:00-1:40	Invited	Mariani	Recrystallization in Geological Materials: from <i>In Situ</i> to Time-Series Experiments
1:40-2:00	Contributed	Gardner	Dislocation Density Evolution and Strain Accumulation during an In-Situ Tensile Test
2:00-2:40	Contributed	Boehlert	<i>In Situ</i> SEM/EBSD Observations of Structural Alloys during Elevated-Temperature Deformation
2:40-3:00	Contributed	Brewer	The Effect of Microstructure on Strain Concentration in Polycrystalline Metals
3:00-3:30	Poster previews	Poster Presenters	
3:30-5:00	Poster Session		
		Guthrey	Technique for Large-Scale EBSD Mapping of Polycrystalline Silicon
		Kamaladasa	Imaging and Determination of Dislocations by Electron Channeling Contrast Imaging in Electronic Materials
		Hattar	Ion Irradiation and EBSD Analysis in Parallel
		Kirchhofer	EBSD Characterization of the Silicon Carbide Layer of TRISO Coated Nuclear Fuels Prepared in a FIB
		Zhou	Using EBSD to Identify Effect of Common Rock-Forming Minerals on Carbonate Crystallization
		Hovington	Microstructural Characterization of Materials Containing Sub-100nm Phases Using EBSD and Image Analysis; Zr-2.5Nb CANDU Pressure Tube
		Kacher	Study of Abnormal Grain Growth in Nickel: a Two Scale Approach
		Thomas	EBSD Analysis of 'Hot-Rolled' Quenched and Partitioned Steel Microstructures
		Erdman	Deformation and Velocity Anisotropy of the Funeral Mountains Middle-Lower Crust from Electron Backscatter Diffraction
		Shen	Oriental Relationship during Replacement Reaction of Dolomite
		Oztop	Effect of Spatial Resolution on Lower Bound Geometrically Necessary Dislocation (GND) Density
		Longanbach	In-Situ Tensile-Creep Deformation Observations of a Cobalt-based Superalloy
		Parish	EBSD of Site-Specific FIB Lift-Outs
6:00	Conference Banquet		

Wednesday, May 26, 2010

	<i>Session Chair</i>	<i>Fournelle</i>	
8:30-9:10	Invited	Winkelmann	Depth Sensitivity and Energy Resolution of EBSD
9:10-9:30	Contributed	Veron	EBSD in TEM : Introduction to ASTAR system
9:30-9:50	Contributed	Nolze	Dynamic Simulation of EBSD Patterns: the Breakthrough?
9:50-10:00	Discussion		
10:00-10:20	Break		
	<i>Session Chair</i>	<i>Michael</i>	
10:20-11:00	Invited	Geiss	Case Studies of Elastic Strain Measurement on Crystalline Materials using EBSD
11:00-11:20	Contributed	Vaudin	Validation and Standards for EBSD Cross-correlation Methods for Measuring Lattice Strains and Rotation
11:20-11:40	Contributed	Basinger	Determining Absolute Pattern Center
11:40-11:50	Discussion		
11:50-1:00	Lunch		
	<i>Session Chair</i>	<i>McCarthy</i>	
1:00-1:40	Invited	Deal	Basic Approaches to Identification of Unknown Phases
1:40-2:00	Contributed	Nowell	Characterizing and Understanding Thin Film Solar Cell Microstructure Using Electron Backscatter Diffraction
2:00-2:20	Contributed	Raines	Reassessment of Recovery Annealing Through EBSD
2:20-2:40	Contributed	Chou	Elementary Facet Method for 3D Grain Boundary Plane Measurements
2:40-2:50	Discussion		
2:50-3:10	Break		
	<i>Session Chair</i>	<i>Brewer</i>	
3:10-3:30	Contributed	Michael	Gallium-Ion Beam Induced Phase Changes
3:30-3:50	Contributed	Pinard	A New Analysis Engine for EBSD
3:50-4:10	Contributed	Giannuzzi	Automated FIB/SEM for 3D EBSD
4:10-4:30	Contributed	Necker	EBSD Multiphase Analysis of a Composite: U-10Mo, Zr, Al
4:30-4:45	Summary		