



EBSD 2014

An MAS Topical Conference on Electron Backscatter Diffraction

Monday June 16th 2014

3:00-6:00pm	On-site check-in and Live Demo Sign-up (Rangos Ballroom, Univ. Center) Receive conference badge, booklets, banquet ticket, etc. Sign-up for open live demonstration times held the following day
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Tuesday June 17th 2014

Tutorial and Live Demonstrations

7:30-5:30	On-site check-in and Live Demo Sign-up (Rangos)	
8:30am	Intro (Rangos)	
8:45am	The Technology Engine (Rangos) Des Moser	9:00-12:00 Live Demos (JEMR facility) Bruker, EDAX, Oxford Instruments, Thermo-Scientific (Requires sign-up)
10:30am	Sample Prep: MSE (Rangos) Ron Witt	
11:15am	Sample Prep: Geo (Rangos) Brian Hess	
12:00pm	---LUNCH---	
1:00pm	Acquisition (Rangos) Elena Miranda	Live Demos (JEMR facility) (Requires sign-up)
2:00pm	Post Processing / MTEX (Rangos) David Mainprice	
3:00pm	---BREAK---	
3:15pm	Case Studies: MSE (Rangos) Joe Michael	Geoscience Tutorial Demo (JEMR facility)
4:15pm	---BREAK---	
4:30pm	Case Studies: Geo (Hamerschlag B101) David Mainprice	Materials Science Tutorial Demo (JEMR facility)
5:30pm	Pizza and Social hour (1 st floor of Roberts Engr. Hall, JEMR facility)	5:30-8:00 Live Demos (JEMR facility) (Requires sign-up)



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Wednesday June 18th 2014

(Rangos Ballroom, University Center, CMU Campus)

8:00am-12:00pm	Continued on-site check-in (Rangos) Poster setup in Connan Room (Downstairs from Rangos)	
8:00am	Congregate and coffee	
Session 1: EBSD for Industry		
8:30am	EBSD in Metal Forming Technology	Raj Mishra (Invited), General Motors
9:10am	Microstructural Characterization of Commercial Cold-Sprayed and Electrodeposited Copper Coatings	Pellumb Jakupi, Western Univ.
9:30am	Microtexture Evolutions in Orthogonal Cutting of AA 70775	Ali Tabei, Georgia Tech.
9:50am	---BREAK---	
Session 2: Computation Advances		
10:20am	Computational Advances in the Simulation and Analysis of EBSD patterns	Gert Nolze (Invited), BAM
11:00am	New Metrics for the Study of Deformed Materials	Travis Rampton, EDAX
11:20am	High-resolution EBSD Pattern Analysis for Phase Identification	Aimo Winklemann, Bruker
11:40am	Forward Modeling and a New Dictionary-Based Approach to EBSD Pattern Indexing	Marc de Graef, CMU
12:00pm	---LUNCH---	
Session 3: Geochronology Phases		
1:00pm	Integrating EBSD & Geochronology: Old Data and New Ideas	Steve Reddy (Invited), Curtin Univ.
1:40pm	Integrating Electron Diffraction and Atom Probe Tomography Investigations of Martian Crystals	Des Moser, Western Univ.
2:00pm	The Crystallographic Relationship of the High Pressure Polymorph Reidite with Host Zircon from the Ries Crater, Germany	Timmons Erickson, Curtin Univ.
2:20pm	---BREAK---	
Session 4: Microstructural Characterization		
2:50pm	Application of EBSD and ECCI for the Investigation of Microstructures of Engineering Materials	Stefan Zaeferrer (Invited), Max-Planck
3:30pm	Generation of Synthetic Three-dimensional Microstructures in Two-phase Titanium Alloys	Sudipto Mandal, CMU
3:50pm	Designing High Resolution EBSD Strain Standards using Si _{1-x} Ge _x Films on Si	Mark Vaudin, NIST
Poster Session		
4:10pm	Poster Previews in Rangos Ballroom	
4:20pm	Poster Session in Connan Room (Downstairs from Rangos)	
5:30pm	---BREAK---	
Banquet		
6:00pm	Drinks at Tartans Pavillion (1 st Floor of Resnik House)	
7:00pm	Dinner at Tartans Pavillion	
9:00pm	Adjourn	



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Thursday June 19th 2014

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8:00am	Congregate and coffee	
Session 5: EBSD and Energy Technologies		
8:30am	Application of Electron Backscatter Diffraction in the Study of Photovoltaic Materials	Helio Moutinho (Invited), NREL
9:10am	Microstructure Reconstruction Methods for Modeling Nuclear Materials	Brad Fromm, INL
9:30am	EBSD Characterizations of High Purity Niobium for Accelerator Cavities	Di Kang, MSU
9:50am	---BREAK---	
Session 6: Novel Methods		
10:20am	Materials Characterization on the Nanoscale: Investigating Deformation, Elemental Segregation and Grain Growth using Transmission Kikuchi Diffraction	Pat Trimby (Invited), Sydney Univ.
11:00am	Beam Broadening Effects in Transmission EBSD	Katie Rice, NIST
11:20am	A New Method for High Angular Resolution in Fast Automated EBSD	Ali Gholinia, Manchester Univ.
11:40	Advances in Nanoindentation-EBSD Methodologies	Ali Khosravani, Georgia Tech.
12:00am	---LUNCH---	
Session 7: Deformation Fabrics		
1:00pm	Quantifying Water Ice Deformation Fabrics using EBSD	David Prior (Invited), Otago Univ.
1:40pm	Rheologic Controls on Granulite- and Amphibolite-facies Fabric Development in the Resolution Island Shear Zone	Elena Miranda, CSUN
2:00pm	Electron Beam Damage Reduction in EBSD Maps of Undeformed Quartz via Reversed Scan Direction	Steve Kidder, City College, NY
2:20pm	Closing Remarks and Adjourn	

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