

Workshop “Advanced applications of EBSD measurement and analysis in materials- and geo-science”

Where: Max-Planck-Institute for Sustainable Materials (MPI SusMat), Max-Planck-Str. 1, 40237 Düsseldorf

When: 23rd October lectures, 24th October for live presentations and detailed discussion

Program

Time	Name	Title
9:00 – 9:30	Welcome tea	
9:30 – 10:00	Stefan Zaefferer (MPI SusMat)	Introduction to the day
10:00 – 10:45	Rene de Kloe (Ametek/EDAX)	Capturing EBSD patterns, from film to direct detection
10:45 – 11:15	Eric Woods & Stefan Zaefferer (MPI SusMat)	High resolution analysis of high resolution EBSD patterns
11:15 – 12:00	Matt Nowell (Ametek/EDAX)	The Evolution of Spherical Indexing for EBSD
12:00 – 12:30	Stefan Zaefferer (MPI SusMat)	Mathematics of spherical indexing
12:30 – 13:30	Lunch	
13:30 – 14:00	Nikolai Orlov (Amolf)	Spherical Indexing as a Powerful Tool for Beam-Sensitive Material analysis
14:00 – 14:30	Tom Griffiths (University Vienna)	EBSD analysis of geomaterials: identifying key targets for the application of new technologies
14:30 – 15:00	Peter Konijnenberg (FZ Jülich)	Analysis of diffraction patterns with machine learning algorithms
15:00 – 15:30	Coffee & tea	
15:30 – 16:00	Crtomir Donik (IMT Ljubljana)	Examples of spherical indexing of metals
16:00 – 16:30	Karsten Kunze (ETH Zürich)	EBSD indexing by Hough transform and beyond
16:30 – 16:45	Stefan Zaefferer (MPI SusMat)	Wrap-up: Discussion on direct electron detection and spherical indexing
17:00 – 18:00	Lab tour	
18:30 – xxxx	Dinner at Brauerei Frankenheim	

Participation is free of charge. We appreciate our sponsor Ametek EDAX for helping with lectures, food and drinks.