

WEDNESDAY, 11 DECEMBER

Day 1: Instrumentation and Principles

- 09:00 SEM+FIB: mode of operation
Dr. Johann Michler, Empa
- 10:30 Coffee break
- 11:00 SEM+FIB: Image formation and interpretation
Dr. Johann Michler, Empa
- 12:15 Lunch break
- 13:30 Demonstration at the FIB/SEM and measurements
Dr. Xavier Maeder, Dr. Johann Michler, Empa
- 16:30 End of Day 1

THURSDAY, 12 DECEMBER

Day 2: Chemical analyses

- 09:00 Elemental analyses with EDS, WDS and μ -XRF
Dr. Xavier Maeder, Empa
- 10:30 Coffee break
- 11:00 Chemical analyses with FIB-TOFSIMS
Dr. Johann Michler, Empa
- 12:15 Lunch break
- 13:30 Demonstration at the FIB/SEM and measurements
Dr. Xavier Maeder, Dr. Johann Michler, Empa
- 16:30 End of Day 2

FRIDAY, 13 DECEMBER

Day 3: Electron Diffraction and Special Topics

- 09:00 EBSD, TKD, 3D EBSD, HR-EBSD for stress/strain mapping
Dr. Xavier Maeder, Empa
- 10:30 Coffee break
- 11:00 Advanced techniques: In-situ microscopy and micro-mechanic; μ -CT
Dr. Xavier Maeder, Dr. Johann Michler, Empa
- 12:15 Lunch break
- 13:30 Written exam
- 14:30 Demonstration at the FIB/SEM and measurements of real samples
Dr. Xavier Maeder, Dr. Johann Michler, Empa
- 16:30 End of Day 3