

	Monday (16.09)	Tuesday (17.09)	Wednesday (18.09)	Thursday (19.09)
08:30:00 AM	Welcome			
09:00:00 AM	Grunwaldt: Operando X-ray characterization techniques	Boubnov: XAS basics (instrumentation)	Clark: QEXAFS introduction.	Clark: QEXAFS analysis software introduction; basics of MCR and MES.*
09:30:00 AM				* MCR: Multivariate Curve Resolution; MES: Modulation Excitation Spectroscopy
10:00:00 AM				
10:30:00 AM	Magnussen: Surface X-ray scattering techniques / Grazing Incidence techniques	Welter / Caliebe: Beamline (introduction)	Building up for TPR-XANES at P65	Boubnov: Hands-on EXAFS analysis (Artemis) Welter / Caliebe: Beamline
11:00:00 AM				
11:30:00 AM				
12:00:00 PM	Lunchbreak	Welter / Caliebe: Beamline Boubnov: Hands-on basic data analysis (Athena)	Building up for NH3-TPR of a Cu-zeolite at P64 (MCR example)	Welter / Caliebe: Beamline Clark: Hands-on MCR, MES.*
12:30:00 PM				
01:00:00 PM				
01:30:00 PM	Stierle: Surface X-ray scattering	Lunchbreak	Lunchbreak	Lunchbreak
02:00:00 PM		Boubnov: Hands-on basic data analysis (Athena) Welter / Caliebe: Beamline	Building up for an MES experiment at P64	Clark: Hands-on MCR, MES.* SPP PhD students / postdocs workshop
02:30:00 PM	Zobel (or PDF beamline scientist): Pair Distribution Function analysis			
03:00:00 PM				
03:30:00 PM		Boubnov: Introduction to EXAFS	Smolentsev: Introduction to XANES. FitIt hands-on.	Welter / Caliebe: Beamline
04:00:00 PM				
04:30:00 PM	Schroer/Schropp: X-ray imaging and tomography			
05:00:00 PM				
05:30:00 PM		Welter / Caliebe: Beamline Boubnov: Hands-on EXAFS analysis (Artemis)	Sheppard: In-situ / operando hard X-ray imaging	Doronkin: Hands-on EXAFS analysis continued / Final questions
06:00:00 PM	Bauer: X-ray emission spectroscopy; Resonant inelastic X-ray scattering			
06:30:00 PM				
07:00:00 PM		Dinner (sponsored by the SPP)		

- Beamline: Hands on experiments at the beamline, assuming two beamlines (P64+65) and 4 subgroups, 2 subgroups working at the beamlines, 2 subgroups evaluate their data.
- Plenary lectures for all participants
- Data evaluation
- Set-up/preparation of an in-situ experiment for the following day
- Workshop for the SPP2080 participants