

	Friday May 31	Saturday Jun 1 <b>Data collection</b>	Sunday Jun 2 <b>Data processing and interpretation</b>	Monday Jun 3 <b>Validation of results</b>	Tuesday Jun 4	Wednesday Jun 5 <b>Beyond X-ray diffraction</b>	Thursday Jun 6	Friday Jun 7	Saturday Jun 8
8:45		Introduction (Directors & IT)							
9	ARRIVALS (Dinner provided)	What is powder diffraction ( <b>R. Dinnebier</b> )	CSD database (J. Nyman)	WS integrating 2D data ( <b>A. Fitch</b> ) WS data correction PXR/PDF ( <b>G. Vaughan</b> )	WS EXPO ( <b>A. Altomare</b> ) WS Superflip ( <b>D. Sisak Jung</b> )	WS GSAS2 ( <b>B. Toby</b> ) WS Fullprof ( <b>P. Abdala</b> )	WS TOPAS ( <b>M. Evans</b> ) WS TOPAS ( <b>A. Kern</b> ) WS PDF GETX3 ( <b>M. Terban</b> )	WS microstructure ( <b>M- Leoni</b> ) WS Artificial intelligence and machine learning ( <b>D. Olds</b> )	DEPARTURES
9:45		How does scattering fit into Powder Diffraction ( <b>Simon Billinge</b> )	Indexing and space group determination ( <b>A. Altomare</b> )	WS integrating 2D data ( <b>A. Fitch</b> ) WS data correction PXR/PDF ( <b>G. Vaughan</b> )					
10:30		Coffee	Coffee	Coffee					
11:00		Laboratory data collection ( <b>R. Dinnebier</b> )	Profile refinement ( <b>B. David</b> )	WS Use of PDF 5+ database and Jade ( <b>M. Delgado</b> ) WS Python intro ( <b>D. Olds</b> )	WS EXPO ( <b>A. Altomare</b> ) WS Superflip ( <b>D. Sisak Jung</b> )	WS GSAS2 ( <b>B. Toby</b> ) WS Fullprof ( <b>P. Abdala</b> )	WS TOPAS ( <b>M. Evans</b> ) WS TOPAS ( <b>A. Kern</b> ) WS PDF GETX3 ( <b>M. Terban</b> )	WS microstructure ( <b>M- Leoni</b> ) WS Artificial intelligence and machine learning ( <b>D. Olds</b> )	
11:45		Choosing beamline for PXR/PDF ( <b>A. Fitch</b> )	Structure determination methods ( <b>L. McCusker</b> )	WS Use of PDF 5+ database and JADE ( <b>Delgado</b> ) WS Python intro ( <b>D. Olds</b> )					
12:30		Lunch	Lunch with poster preview	Lunch with poster preview	Excursion	Lunch	Lunch	Lunch	
2:30		High resolution synchrotron PXR ( <b>L. Saunders</b> )	Structure refinement ( <b>J. Evans</b> )	Sources of errors ( <b>D. Sisak Jung</b> )		Artificial intelligence and machine learning ( <b>S. Billinge</b> )	XRD-CT ( <b>G. Vaughan</b> )	Synchrotron PXR in the pharmaceutical industry ( <b>F. Gozzo</b> )	
3:15		High throughput beamlines ( <b>N. Casati</b> )	Parametric refinement ( <b>J. Evans</b> )	Combined powder diffraction and computational methods ( <b>B. David</b> )		Electron diffraction ( <b>U. Kolb</b> )	X-ray Absorption Fine Structure (EXAFS) as a complementary tool to PXR ( <b>P. Abdala</b> )	Hybrid Proton Counting detectors for powder experiments ( <b>Sofia Trampari DECTRIS</b> )	
4:00		Coffee	coffee	Coffee		coffee	coffee	coffee	
4:30		High energy beamlines for PDF and PXR in situ ( <b>M. Jorgensen</b> )	Symmetry refinement ( <b>J. Evans</b> )	Publishing meaningful data and CIF ( <b>D. Billinge</b> )		Neutron diffraction ( <b>B. Toby</b> )	XRD-Raman ( <b>I. Halasz</b> )	Presentations from abstracts	
5:15	Introduction to WS ( <b>D. Billinge</b> )	Microstructure analysis ( <b>M. Leoni</b> )	Local structure analysis ( <b>M. Terban</b> )	Topas WS intro ( <b>A. Kern</b> )		Discussion panel: data and metadata ( <b>M. Jorgensen</b> )	Discussion panel : young crystallographers ask		
6:00	Intro to Erice	Poster Session Odd Numbers	Poster Session Even Numbers	50 <sup>th</sup> anniversary game		Closing remarks			
8:00	Welcome buffet			Dinner at posters	Dinner at posters	50 <sup>th</sup> anniversary dinner	Farewell dinner		

Legend: grey lectures – yellow social events – green workshops – blue dinners

## Workshop schedule

Monday – 3 June		Tuesday – 4 June		Wednesday – 5 June		Thursday – 6 June		Friday – 7 June	
9:00 – 9:45	11:00 – 11:45	9:00 – 10:30	11:00 -12:30	9:00 – 10:30	11:00 – 12:30	9:00 – 10:30	11:00-12:30	9:00 – 10:30	11:00 – 12:30
Integrating 2D data (A. Fitch)	WS ICDD (Delgado)	EXPO (A. Altomare)	EXPO (A. Altomare)	GSAS2 (B. Toby)	GSAS2 (B. Toby)	TOPAS (M. Evans)	TOPAS (M. Evans)	Microstructure (M. Leoni)	Microstructure (M. Leoni)
Data correction PXR/PDF (G. Vaughan)	Python intro (D. Olds)	Superflip (D. Sisak Jung)	Superflip (D. Sisak Jung)	Fullprof (P. Abdala)	Fullprof (P. Abdala)	TOPAS (A. Kern)	TOPAS (A. Kern)	Artificial intelligence and machine learning (D. Olds)	Artificial intelligence and machine learning (D. Olds)
						PDF GETX3 (M. Terban)	PDF GETX3 (M. Terban)		