

# Program schedule ECS8

18<sup>th</sup> - 24<sup>th</sup> June 2023 / Berlin, Germany

	Sunday 18.06.	Monday 19.06.	Tuesday 20.06.	Wednesday 21.06.	Thursday 22.06.	Friday 23.06.	Saturday, 24.06.
09:00-09:30		Introduction: Basics in Crystallography and Scattering Theory (Susan Schorr)	CCDC (Suzanna Ward)	Powder Diffraction (Daniel Toebbens)	Electron diffraction (Ute Kolb)	Grazing Incidence Diffraction (Rene Schwidessen)	Excursion
09:30-10:00							
10:00-10:30		Fundamentals of Diffraction Methods (Susan Schorr)	The Protein Data Bank: deposition and validation of experimentally-determined macromolecular structures (Deborah Harrus)	Macromolecular Powder Diffraction: From phase identification to structure refinement (Dimitris Triandafillidis)	Comparision of dynamical and kinematic theory of X-ray diffraction (Ulli Pietsch)	Anomalous Scattering (Daniel Toebbens)	
10:30-11:00				ICSD & Powder data (Michael Tovar)			
11:00-11:30		Coffee Break					
11:30-12:00		Synchrotrons and Beamlines (Uwe Mueller)	I've grown a single crystal - how can I determine the crystal structure? (Joachim Breternitz)	The HUB X-ray Core Facility (Beatrice Cula)	Multiscale analysis of the real structure of crystals by X-ray diffraction imaging (Carsten Richter)	What's that beyond the grasslands? Expanding your world view via wide-range X-ray scattering (Brian Pauw)	
12:00-12:30				Diffraction Imaging and <i>In situ</i> Diffraction (Ivo Zizak)			
12:30-13:00		Lunch Break					
13:00-13:30		Lunch Break					
13:30-14:00		Lunch Break					
14:00-14:30	Arrival & Registration	Protein Crystallization (Bernhard Loll)	Practicals or Demo 1	Practicals or Demo 2	Photocrystallography (Dominik Schaniel)	Final Discussion	
14:30-15:00		Macromolecular Crystallography (Udo Heinemann)			Crystallography as a Screening Technique (Tatjana Barthel)		
15:00-15:30	Opening Remarks		In situ methodologies for responsive Metal-Organic Frameworks (Stefan Kaskel)	Advances in the structure determination of effector complexes and GPCR signaling complexes (Gebhard Schertler)	Public Lecture at HZB User Meeting	Poster Session and Get together HZB User Meeting: for ECS8 Participants free of charge	
15:30-16:00		Coffee Break					Coffee Break
16:00-16:30	Crystallography and Drug Discovery (Martina Schäfer)	Poster Session	Poster Session	Get-Together at User Meeting			
16:30-17:00							
17:00-17:30	Poster Session and Welcome Reception	Poster Session	Poster Session	School Dinner & Poster Prize			
17:30-18:00							
18:00-18:30							
18:30-19:00							
19:00-19:30							
19:30-20:00							
20:00-20:30							
20:30-21:00							
21:00-21:30							
21:30-22:00							