

TUESDAY | April 14

13:00	REGISTRATION FOR XRD excites	Location: TU Graz
14:00	WELCOME	Frank Uhlig (TU Graz) Christoph Ebner (Anton Paar)
Session 1		
14:10	KEYNOTE LECTURE: Svetlana Mintova Dynamic zeolite structures: Defects and flexibility tuned during crystallization	
15:00	GROUP PHOTO COFFEE BREAK	
15:30	Karim Adil: Fluorinated MOF materials for complex gas separation	
15:50	Margarita Belova, Anastassia Raag: Rare-earth metal-organic frameworks: Synthesis and characterization of RE-MOFs	
16:10	Boris Shivachev: Powder X-ray diffraction study of Al-Fumarate, MIL-101(Fe) and ZIF-8 using Cu K α radiation	
16:40	Bus transfer to Anton Paar GmbH (starting at TU Graz)	
17:00	COMPANY TOUR AT ANTON PAAR GMBH	
19:00	SYMPOSIUM DINNER AT SUDHAUS	

WEDNESDAY | April 15

09:00 GUIDED CITY TOUR (starting and ending at TU Graz)

Session 2		
11:30	KEYNOTE LECTURE: Noritaka Saito High-temperature XRD for green steelmaking: In situ insights into slag carbonation, mold flux crystallization, and UHTC stability	
12:20	Klaus Krammer: Spatially-resolved investigation of oxide scale formation in hydrogen and natural gas combustion atmosphere	
12:40	Jurij Koruza: Reaction routes and intermediate oxycarbonate phases in (Ba,Ca)(Zr,Ti)O ₃ piezoceramics	
13:00	LUNCH	
14:00	Daniele Bonavia: The new Debye beamline at SLS2.0: A versatile operando platform for X-ray scattering and X-ray absorption spectroscopy	
14:20	Santiago Median-Carrasco: Powder diffraction under non-ambient conditions, laboratory-scale measurements	
14:40	Rajendra Kumar Goyal: X-ray diffraction study of additively manufactured Poly(ether-ketone-ketone)/short carbon fiber composites	
15:00	Julia Seilert: Polymorphism and phase transitions in triglycerides and complex fats: Insights from X-Ray scattering	
15:20	COFFEE BREAK	

WEDNESDAY | April 15

Session 3

15:50	KEYNOTE LECTURE: BRYAN R. WHEATON Industrial applications of X-ray diffraction
16:40	Jana Königsreiter: Grain Boundary Effects and Pure Bulk Transport: Utilizing Very Low Temperatures to Determine Ultra-High Ionic Conductivity in W-Doped Na ₃ SbS ₄
17:00	Xavier Alcobé: Crystallographic signatures of the ferroelectric–paraelectric transition in SbSI revealed by variable-temperature XRD
17:20	Doris M. Fopp-Spori: HT-XRD on metallic glass coatings
17:40	Elzbieta Pach: <i>In-situ</i> X-Ray diffraction to expose the reaction mechanism of novel ultrafast growth method of superconducting thin films
18:00	POSTER SESSION Beer & snacks
19:30	FAREWELL

THURSDAY | April 16

09:00 **POSTER PRIZE**

Session 4

09:10	KEYNOTE LECTURE: SIMON BILLINGE From saving pharmaceuticals to saving priceless historical artefacts via saving the planet: understanding nanostructure with x-rays and algorithms
10:00	Stefan Kowarik: Autonomous X-ray measurements powered by AI: XRD and XRR
10:20	Marcus Müller: How HPC detectors help to acquire better XRD data
10:40	COFFEE BREAK
11:10	Kirill Kuhlmann: Step-by-step: Towards the structure of G+ type IV secretion system (T4SS) with the help of XRD
11:30	Steven Huband: Operando battery studies on lab-based X-ray systems
11:50	Arturas Vallionis: Bringing synchrotron-level GIXS to the lab: Structural analysis of ultrathin films and 2D materials
12:10	FAREWELL LIGHT LUNCH

13:00 Bus transfer to Anton Paar GmbH (Only for participants of NA-XRD Workshop, starting at TU Graz)

13:30 **NON-AMBIENT XRD WORKSHOP**

Tutors: **Bryan R. Wheaton** and **Barbara Pühr**

17:00 FAREWELL | Transfer to city center