

## TUESDAY | April 14

13:00	REGISTRATION FOR XRD excites	Location: TU Graz
14:00	WELCOME	Frank Uhlig (TU Graz) Christoph Ebner (Anton Paar)
<b>Session 1   Lecture Hall M</b>		Chair: Bryan R. Wheaton
14:10	<b>KEYNOTE LECTURE: Svetlana Mintova</b> 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: From rare-earth MOF synthesis to catalytic application: X-ray diffraction study of 3D-structured MOF systems for cyclic carbonate synthesis	
16:10	Boris Shivachev: Powder X-ray diffraction study of Al-fumarate, MIL-101(Fe) and ZIF-8 using Cu K $\alpha$ 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)

<b>Session 2   Lecture Hall H</b>		Chair: Svetlana Mintova
11:30	<b>KEYNOTE LECTURE: Noritaka Saito</b> 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 <sub>3</sub> 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		Chair: Noritaka Saito
15:50	<b>KEYNOTE LECTURE: Bryan R. Wheaton</b> Industrial applications of X-ray diffraction	
16:40	<b>Jana Königsreiter:</b> Grain boundary effects and pure bulk transport: Utilizing very low temperatures to determine ultra-high ionic conductivity in W-doped Na <sub>3</sub> SbS <sub>4</sub>	
17:00	<b>Xavier Alcobé:</b> Crystallographic signatures of the ferroelectric–paraelectric transition in SbSI revealed by variable-temperature XRD	
17:20	<b>Doris M. Fopp-Spori:</b> HT-XRD on metallic glass coatings	
17:40	<b>Elzbieta Pach:</b> <i>In-situ</i> X-ray diffraction to expose the reaction mechanism of novel ultrafast growth method of superconducting thin films	
18:00	<b>POSTER SESSION</b> Beer & snacks	
19:30	FAREWELL	

## THURSDAY | April 16

09:00 **POSTER PRIZE**

Session 4   Lecture Hall H		Chair: Xavier Alcobé
09:10	<b>KEYNOTE LECTURE: Simon Billinge</b> From saving pharmaceuticals to saving priceless historical artefacts via saving the planet: Understanding nanostructure with X-rays and algorithms	
10:00	<b>Stefan Kowarik:</b> Autonomous X-ray measurements powered by AI: XRD and XRR	
10:20	<b>Marcus Müller:</b> How HPC detectors help to acquire better XRD data	
10:40	COFFEE BREAK	
11:10	<b>Kirill Kuhlmann:</b> Step-by-step: Towards the structure of G+ type IV secretion system (T4SS) with the help of XRD	
11:30	<b>Steven Huband:</b> Operando battery studies on lab-based X-ray systems	
11:50	<b>Arturas Vailionis:</b> 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	<b>NON-AMBIENT XRD WORKSHOP</b> Tutors: <b>Bryan R. Wheaton</b> and <b>Barbara Pühr</b>	Location: Anton Paar GmbH
17:00	FAREWELL   Transfer to city center	