

EPDIC 19
Crans Montana

19th European Powder Diffraction Conference
Crans Montana
23 to 26 June 2026

www.epdic19.com



EPDIC 19
Crans Montana

Welcome to Crans-Montana, welcome to EPDIC19

On Behalf of the Permanent International Committee of EPDIC, EPDiCCom, it is our pleasure to welcome you to the 19th European Powder Diffraction Conference, which is taking place in the heart of the Swiss Alps from June 23rd – 26th, in Crans Montana.

EPDIC is a cornerstone in the field of powder diffraction and has long served as a vital platform for the exchange of scientific knowledge on the broader topics spanning materials science and the advances of experimental techniques. The promotion of cross-disciplinary and inter-generational exchange is at the heart of EPDIC, as is fostering the participation of young scientists. EPDIC brings together leading experts, early career researchers as well as industry professionals, and contributes significantly to strengthening the global community in this field.

Over the next few days, you will be immersed in the beautiful mountain scenery of Valais, nestled between Italy and France and within easy reach of the Lake Geneva region. Surrounded by spectacular alpine landscapes, we hope you will enjoy an engaging scientific program, inspiring discussions, and many opportunities to connect with colleagues in a relaxed atmosphere throughout EPDIC19. We wish you a memorable and rewarding experience, both professionally and personally, and an unforgettable stay in our Central Alps.

For the Local Organizing Committee

Pascal Schouwink (Chair)
Swiss Federal Institute of Technology Lausanne EPFL



Antonia Neels (co-Chair)
Swiss Federal Laboratories for Materials Science and Technology EMPA



Radovan Cerny (co-Chair)
University of Geneva



Paula Abdala
Swiss Federal Institute of Technology Zurich ETHZ



Céline Besnard
University of Geneva



Nicola Casati
Paul Scherrer Institute



For the Permanent International Committee of EPDIC

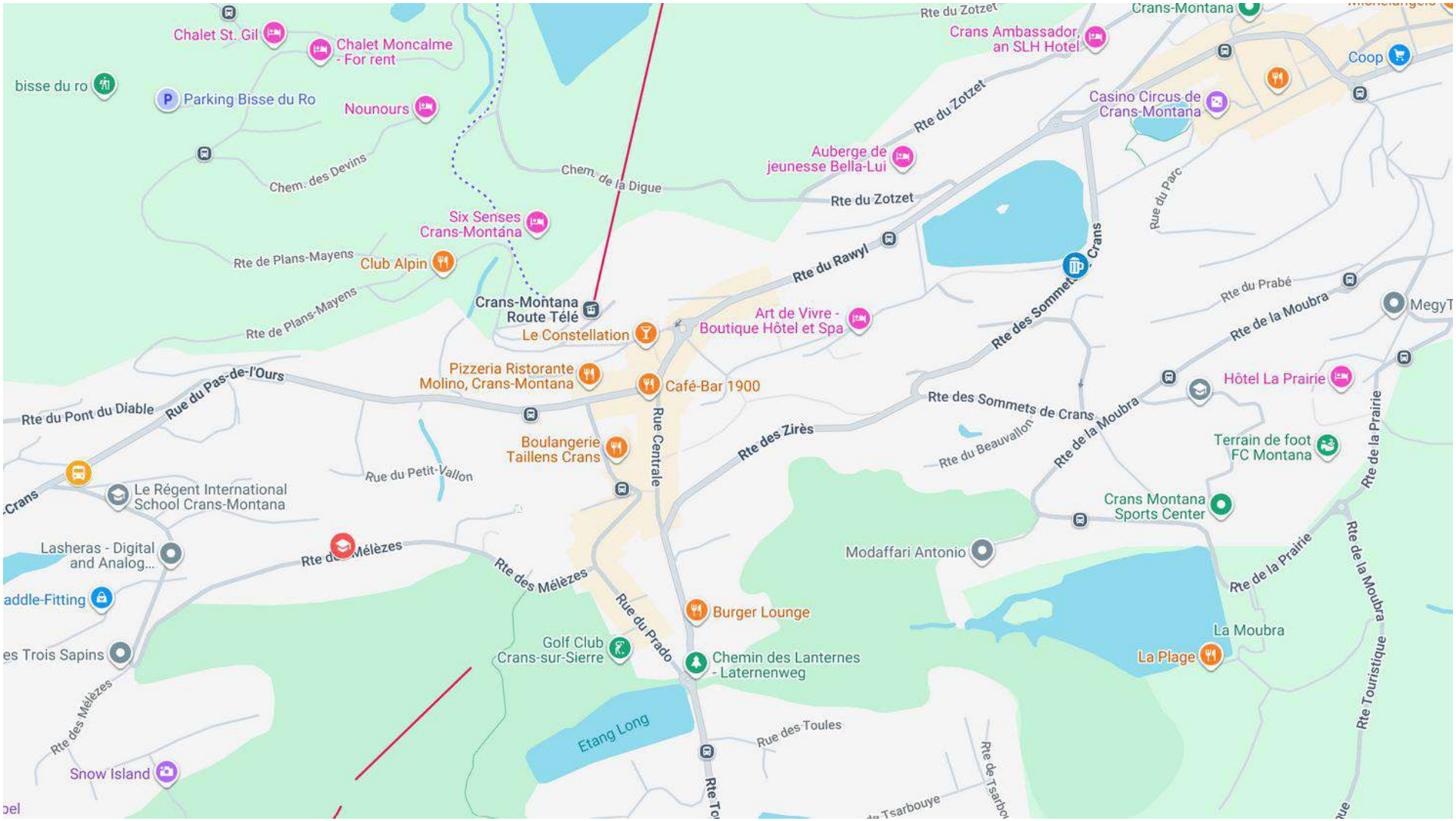
Jasminka Popović
Ruđer Bošković Institute



Congress Center Regent

Crans-Montana, Zier-Régent

Brasserie la Marmotte



Our EPDIC19 Team

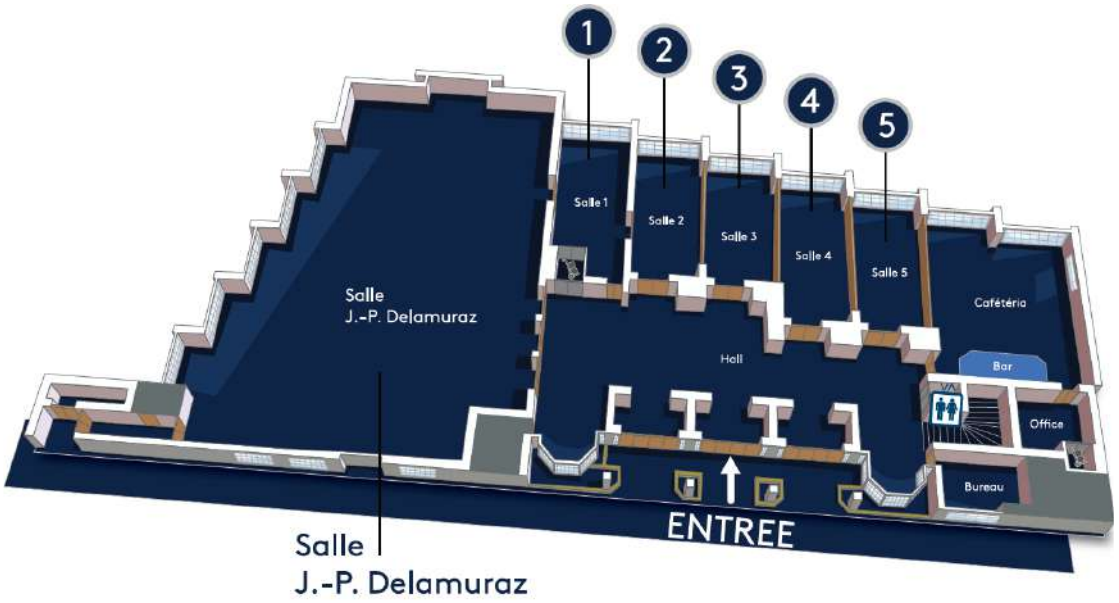
A warm thank you to our team, who will be available to help you during EPDIC19.

Dan Stefanita (EMPA)
Eva Bervas (PSI)
Kai Roeseler (Uni Geneva)
Pattaraphon Rodlamul (EPFL)
Marcel Janak (ETHZ)

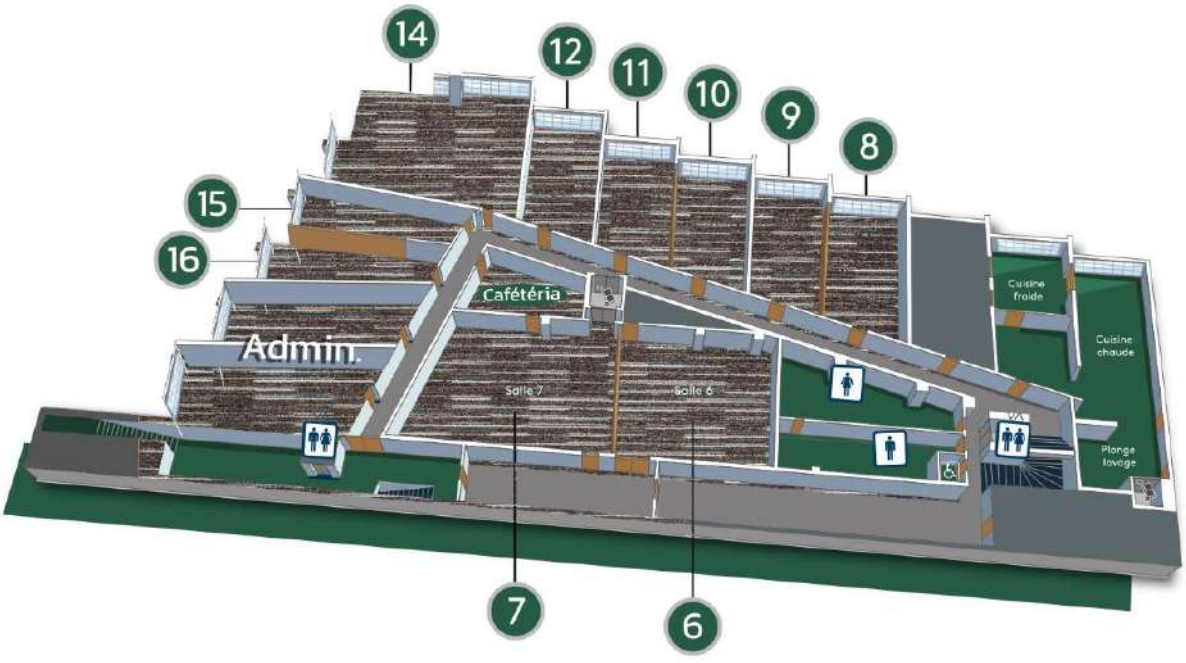
Matthieu Meoli (EPFL)
Qin Zhan (ETHZ)
Elisa Mégroz (Uni Fribourg)
Lucie Rabut (Uni Fribourg)

The Régent Congress Centre

Ground Floor (Salle Delamuraz, Common Spaces, Exhibition)



Floor -1 (Salles 6+7, Salles 8+9, Salles 15+16, Poster Sessions, Common Spaces)



XRR analysis

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Reflectometry simplified

Leading labs already trust Aeris to deliver rapid, reliable XRD results in an accessible platform. Now, it can do even more.



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Program at a glance

	June 21	June 22	June 23	June 24	June 25	June 26
8:30 AM 9:30 AM		Topas Workshop (Salles 6+7)	Topas Workshop (Salles 6+7)	**PL1** The Application of X-ray Scattering Contrast Imaging Methods for the Characterization of Catalytic Nanomaterials **Andrew Beale**	**PL3** Crystal structure determination of nanocrystalline organic compounds - pushing the limits **Martin U. Piepenbring**	**PL5** Hidden, Unknown, Unexpected: Unlocking Provenance, Technology and Degradation in Painted Artworks by X-ray Powder Diffraction **Silvie Švarcová**
9:30 AM 10:00 AM				Coffee break & Poster session 1	Coffee break & Poster session 1	Coffee break & Poster session 2
10:00 AM 12:00 PM		Smartlab Studio II Workshop (Salles 8+9)	ICDD Workshop (Salles 8+9)	**MS03** Short range order using totals scattering and XAS; **MS10** Microstruc-ture, stress and texture analysis	**MS09** Multi-technique and imaging approaches for structural studies; **MS05** Methodologic al advances in research and industry	**MS11** ML and general AI approaches for data collections and analysis; **MS08** Neutron scattering in materials science
12:00 PM 12:30 PM	Topas Workshop (Salles 6+7)			Lunch & Poster session 1 Software Fayre (6+7) Exhibition	Lunch & Poster session 2 Software Fayre (6+7) Exhibition	Lunch & Poster session 2 Software Fayre (6+7) Exhibition
12:30 PM 1:30 PM				Seminar BRUKER	Seminar Malvern Panalytical	Seminar DECTRIS
1:30 PM 3:30 PM			EPDIC Registration from 1:30 PM	**MS04** Materials for applications in energy storage and conversion; **MS06** Nanomateri-als, surfaces and interfaces	**MS02** In situ and operando: structure, methods and hardware; **MS07** Pharmaceutic al and biological materials	**MS01** Functional materials: state of the art and advance; **MS12** Advances at large facilities, ultra-fast studies and extreme conditions
3:30 PM 4:00 PM				Coffee break & Poster session 1 Software Fayre (6+7) Exhibition	**Group Photo** Coffee break & Poster session 2 Software Fayre (6+7) Exhibition; EPDiCcom	Coffee break
4:00 PM 5:00 PM				Seminar Rigaku	Seminar Anton Paar OXFORD	**PL6** Powder Diffraction Data: What We Collect, What We Lose, and What We Ignore **Bernd Hinrichsen**
5:00 PM 5:30 PM			**Opening Ceremony**	Young Scientist Award **Eleonora Isotta**	Young Scientist Award **Rebecca Pittkowski**	Best Poster Awards Ceremony
5:30 PM 5:45 PM			Distinguished Powder Diffractionist Award **Robert Dinnebier**			**Closing Ceremony**
5:45 PM 6:30 PM				**PL2** Metal-cyanide frameworks under pressure and radiation **Hanna Boström**	**PL4** Powder diffraction and total scattering across time-scales at Diamond Light Source **Philip Chater**	
6:30 PM 6:45 PM						
6:45 PM			**Welcome Party**			
From 7:30 PM				**Student Mixer** (Brasserie La Marmotte)	**Conference Dinner** (Fondation Opale) Buses: 7:00 PM 7:30 PM Bus stop Zier-Régent (10 min walk)	

Salle Delamuraz | Salles 6+7 | Salles 8+9 | Common Spaces | Salle 15+16

SUNDAY, JUNE 21

12:00 PM – 6:30 PM
TOPAS Workshop – Day 1
Room Salle 6–7

MONDAY, JUNE 22

8:30 AM – 6:30 PM
TOPAS Workshop – Day 2
Room Salle 6–7

9:00 AM – 4:00 PM
SmartLab Studio II Workshop
Room Salle 8–9

TUESDAY, JUNE 23

8:30 AM – 3:00 PM
ICDD Workshop
Room Salle 8–9

8:30 AM – 2:50 PM
TOPAS Workshop – Day 3
Room Salle 6–7

1:30 PM – 5:00 PM
Registration

5:00 PM – 5:30 PM
Opening Ceremony
Room Salle Delamuraz

5:30 PM – 6:30 PM
Distinguished Powder Diffractionist Award
Room Salle Delamuraz Chair: **Paolo Scardi**
Robert Dinnebier
Max Planck Institute for Solid State Research, Stuttgart, Germany
A life with/for powder diffraction

6:45 PM – 9:00 PM
Welcome Party
Common Spaces



XRD

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Innovation with Integrity

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WEDNESDAY, JUNE 24

8:30 AM – 9:30 AM

Plenary Lecture 1

Room Salle Delamuraz Chair: **Robert Cernik**

Andrew Beale

University College London, UK

The Application of X-ray Scattering Contrast Imaging Methods for the Characterisation of Catalytic Nanomaterials

9:30 AM – 10:00 AM

Coffee break – Poster session 1 (MS03, MS04, MS05, MS06, MS07, MS09, MS10) – Exhibition

Common Spaces

10:00 AM – 12:00 PM

Parallel sessions

MS03: Short-range order using total scattering and XAS

Room	Salle Delamaruz	
Chairs	**Paula Abdala**, **Federica Bertolotti**	
10:00 AM 10:30 AM	Keynote 1 **Giulia F. Mancini**	Quantifying photoinduced polaronic distortions in transition metal oxides and halide perovskites with ultrafast X-ray and state-selective spectroscopy methods
10:30 AM 11:00 AM	Keynote 2 **Stefano Checchia**	The dynamic behaviour of Pt-group metal nanoparticles during liquid- and gas-phase catalysis
11:00 AM 11:20 AM	Oral 1 **Gregorio Dal Sasso**	Structural and microstructural characterization of Pt/C catalyst through X-ray total scattering methods
11:20 AM 11:40 AM	Oral 2 **Till Schertenleib**	Anomalous Total Scattering: Deconstructing Pair Distribution Functions
11:40 AM 12:00 PM	Oral 3 **Kirill Yusenko**	Local Structure of High-Entropy Alloys: EXAFS vs. XRD analysis

MS10: Microstructure, stress, and texture analysis

Room	Salle 6+7	
Chairs	**Sebastian Bette, Milan Dopita**	
10:00 AM 10:30 AM	Keynote 1 **David Rafaja**	Mechanisms of plastic deformation in multiphase steels revealed using in situ high-energy synchrotron diffraction
10:30 AM 11:00 AM	Keynote 2 **Michael Meindlhumer**	80 nm-resolved in situ X-ray nanodiffraction reveals multiaxial stress-strain transfer at the indenter-thin film interface
11:00 AM 11:20 AM	Oral 1 **Marcelo A. Malagutti**	Thermal diffuse scattering from nanocrystalline systems
11:20 AM 11:40 AM	Oral 2 **Mogens Christensen**	Nuclear and Magnetic Texture in $SrFe_{12}O_{19}$ Using Combined 2D Neutron and X-ray Diffraction
11:40 AM 12:00 PM	Oral 3 **Maciej Zielinski**	High sensitivity to microstructure variations at different depths in thin surface layers

12:00 PM – 1:30 PM

Lunch – Poster session 1 (MS03, MS04, MS05, MS06, MS07, MS09, MS10) – Exhibition

Common Spaces

12:30 PM – 1:30 PM

Lachlan's Software Fayre

Room: Salle 6+7

12:30 PM – 1:15 PM

BRUKER Seminar

Salle Delamuraz

BRUKER

A Revolution In Structural Analysis

XtaLAB Synergy-ED AND XtaLAB Synergy-DW VHF

The combination of X-ray diffraction and electron diffraction broadens the range of single crystal sample size from nanometers to microns



Rigaku oxford diffraction



All XtaLAB Synergy diffractometers are operated by our popular CrysAlisPro software

CrysAlis PRO

XtaLAB Synergy-DW VHF
The ultimate X-ray diffractometer, with a powerful rotating anode source and two selectable wavelengths

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The world's first electron diffractometer designed to be used by crystallographers

Rigaku Powder XRD Solutions

From a cost-effective benchtop system to a multifunctional X-ray diffractometer (XRD)



SmartLab
Automated multipurpose X-ray diffractometer



MiniFlex
Benchtop powder X-ray Diffraction instrument

- Modular structure for all diffraction and scattering experiments with uncompromised performance in each application
- Automatic optical component recognition ensures error-free handling
- AutoAlign for all configurations and applications for always accurate data
- State-of-the-art X-ray detectors: D/teX Ultra 250 0D/1D, HyPix 400 and HyPix-3000 0D/1D/2D

- Most versatile benchtop XRD system
- Ambient and non-ambient experiments
- Multiple sample sizes and sample changer
- Powerful SmartLab Studio software

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WEDNESDAY, JUNE 24

1:30 PM – 3:30 PM
Parallel sessions

MS04: Materials for applications in energy storage and conversion

Room	Salle Delamuraz	
Chairs	**Phoebe Allan**, **David Wragg**	
1:30 PM 2:00 PM	Keynote 1 **Dorthe B. Ravnsbæk**	Out of order – Unravelling structural disorder in intercalation battery electrodes
2:00 PM 2:30 PM	Keynote 2 **Jean-Noël Chotard**	"Crystallo-Chemistry": A wonderful tool to study Energy Related Materials
2:30 PM 2:50 PM	Oral 1 **Peter Khalifah**	Understanding heterogeneous transformations in Li-S batteries through operando diffraction mapping
2:50 PM 3:10 PM	Oral 2 **Érick Alves Santos**	Operando XRD and TXM-XANES Reveal Dynamic Cation Disorder in Co-Mn-Al Spinel as the Key Mechanism for High-Performance Li-S Batteries
3:10 PM 3:30 PM	Oral 3 **Nicolas Schlegel**	Structural Changes in $Pt_5MnFeCoNiCu$ Solid Solutions and Intermetallics during Electrochemical Oxygen Reduction

MS06: Nanomaterials, surfaces, and interfaces

Room	Salle 6+7	
Chairs	**Ann-Christin Dippel**, **Jonathan de Roo**	
1:30 PM 2:00 PM	Keynote 1 **Bo B. Iversen**	Accelerated materials discovery through in situ X-ray diffraction
2:00 PM 2:30 PM	Keynote 2 **Kevin Stone**	Scattering as a Means to Isolate Sample Components: GIPDF and Resonant Scattering
2:30 PM 2:45 PM	Oral 1 **Guilherme B. Strapasson**	Modulation of exsolution dynamics through composition control of high-entropy spinel oxides
2:45 PM 3:00 PM	Oral 2 **Sebastian Mangelsen**	$M(C_2O_4)\cdot 2H_2O$ (M = Mg, Fe, Co) – Chained to Stacking Faults
3:00 PM 3:15 PM	Oral 3 **Marcel Janák**	Mechanistic insight into Pt exsolution from a defective fluorite $Sm_2Pt_{0.1}Ce_{1.9}O_7$ solid solution
3:15 PM 3:30 PM	Oral 4 **Tobias M. Nielsen**	Whole-nanoparticle-ensemble refinements of compositionally complex systems from X-ray pair distribution function data via the Reverse Monte

3:30 PM – 5:00 PM
Coffee break – Poster session 1 (MS03, MS04, MS05, MS06, MS07, MS09, MS10) – Exhibition
Common Spaces

4:00 PM – 5:00 PM
Lachlan's Software Fayre
Salle 6+7

4:00 PM – 5:00 PM
Rigaku Seminar
Salle Delamuraz

5:00 PM – 5:45 PM
Young Scientist Award
Room Salle Delamuraz Chair: **Sebastian Bette**

Eleonora Isotta
University of Trento, Trento, Italy - Max Planck Institute for Sustainable Materials, Düsseldorf, Germany
On the role of polymorphism, crystal disorder, and microstructure evolution in materials for energy conversion and storage

5:45 PM – 6:45 PM
Plenary Lecture 2 – Sponsored by DECTRIS
Room Salle Delamuraz Chair: **Arkadiy Simonov**

Hanna Boström
Stockholm University, Sweden
Metal-cyanide frameworks under pressure and radiation

7:30 PM – 12:00 AM
Student Mixer
Brasserie La Marmotte

THURSDAY, JUNE 25

8:30 AM – 9:30 AM
Plenary Lecture 3 – Sponsored by BRUKER
Room Salle Delamuraz Chair: **Rosanna Rizzi**

Martin U. Piepenbring
Goethe University, Frankfurt, Germany
Crystal structure determination of nanocrystalline organic compounds - pushing the limits

9:30 AM – 10:00 AM
Coffee break – Poster session 1 (MS03, MS04, MS05, MS06, MS07, MS09, MS10) – Exhibition
Common Spaces

10:00 AM – 12:00 PM
Parallel sessions

MS09: Multi-technique and imaging approaches for structural studies

Room	Salle Delamaruz	
Chairs	**Antonia Neels**, **Paolo Mazzeo**	
10:00 AM 10:30 AM	Keynote 1 **Giulio I. Lampronti**	Revealing insights into the amorphization mechanism of ZIF-4 and ZIF-62 by ball milling using in-situ PXRD, and ex-situ XAS, PDF and DSC
10:30 AM 11:00 AM	Keynote 2 **Stefan Salentinig**	Designing Adaptive Soft Matter via Reaction-Driven Interfacial Assembly: A SAXS/GISAXS/GISANS Study
11:00 AM 11:20 AM	Oral 1 **Ivana Brekalo**	In situ monitoring of guest-assisted mechanochemical synthesis of porous materials
11:20 AM 11:40 AM	Oral 2 **Mads R Jørgensen**	Combined μXRD and μXRF mapping of hierarchical materials – atomic structure, crystallographic texture and chemical mapping over large areas.
11:40 AM 12:00 PM	Oral 3 **Remo N. Widmer**	High-Throughput μXRD2 Mapping and Analysis of Combinatorial Thin Films

MS05: Methodological advances in research and industry

Room	Salle 6+7	
Chairs	**Robert Dinnebier**, **Arnt Kern**	
10:00 AM 10:30 AM	Keynote 1 **Alan Coelho**	New features and enhancements in TOPAS Version 8
10:30 AM 11:00 AM	Keynote 2 **Paolo Scardi**	XRD to study plasticity in nanocrystalline materials
11:00 AM 11:20 AM	Oral 1 **Bill David**	Tackling the optimisation challenge of structural faulting in battery cathode materials
11:20 AM 11:40 AM	Oral 2 **Jeremiah Tidey**	3D ED: Bridging the gap between bulk powders and pristine single crystals
11:40 AM 12:00 PM	Oral 3 **Kristian Ufer**	BGMNWrapper – a tool for efficient parametric Rietveld refinements of clay samples

12:00 PM – 1:30 PM
Lunch – Poster session 2 (MS01, MS02, MS08, MS11, MS12) – Exhibition
Common Spaces

12:30 PM – 1:30 PM
Lachlan's Software Fayre
Salle 6+7

12:30 PM – 1:15 PM
Malvern Panalytical Seminar
Salle Delamuraz

Anton Paar



Get expert advice at our booth

Automated Multipurpose Powder X-Ray Diffractometer

XRDynamic 500

Best solution for non-ambient XRD

Out-of-the-box: Best-in-class resolution/signal-to-noise ratio

TruBeam concept: Larger goniometer radius, evacuated beam path

Full automation: X-ray optics and beam geometry change

Efficiency: Increase instrument usage by up to 50 %

Maximum convenience: Self-alignment of instrument and sample

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THURSDAY, JUNE 25

1:30 PM – 3:30 PM
Parallel sessions

MS02: In situ and operando: structure, methods and hardware

Room	Salle Delamuraz	
Chairs	**Catherine Dejoie**, **Jean-Noël Chotard**	
1:30 PM 2:00 PM	Keynote 1 **Serena Cussen**	Coat-doping strategies for stabilizing Ni-rich layered cathodes
2:00 PM 2:30 PM	Keynote 2 **Mauro Coduri**	Quasi simultaneous operando XRD/XAS studies in heterogeneous catalysis
2:30 PM 2:50 PM	Oral 1 **Fabio Manzoni**	Modulation Excitation PDF for Studying Dynamic Changes in Ni based Catalyst
2:50 PM 3:10 PM	Oral 2 **Matthew Suchomel**	Development of a Flexible In-Situ Cell for Structural Studies of Hydro/Solvothermal Chemistry under Sub- and Supercritical Conditions
3:10 PM 3:30 PM	Oral 3 **Jesper Simonsen**	SiEN$_2$AH: Custom in situ sample environment for fast and high-temperature sintering in mixed nitrogen/oxygen atmospheres using 2D PXRD

MS07: Pharmaceutical and biological materials

Room	Salle 6+7	
Chairs	**Irene Margiolaki**, **Arnaud Grandeury**	
1:30 PM 2:00 PM	Keynote 1 **Kenneth Shankland**	The evolution of SDPD for molecular organics: from routine PXRD to DFT-D
2:00 PM 2:30 PM	Keynote 2 **M. Puchkov**	Revealing Microstructural Dynamics in Pharmaceutical Materials with Advanced X-ray Imaging and Analysis
2:30 PM 2:45 PM	Oral 1 **Lucie Rabut**	Solvent-Driven Control of Structure in Short Fmoc Peptide Hydrogels: A SAXS Study
2:45 PM 3:00 PM	Oral 2 **Dan Stefanita**	Local antibiotic therapy: in situ time-resolved powder diffraction studies on drug carrier systems
3:00 PM 3:15 PM	Oral 3 **Christina Papaefthymiou**	Structural Investigation of Insulin Complexes for the Development of Drugs Against Diabetes
3:15 PM 3:30 PM	Oral 4 **Dusko Popović**	Crystallization of molecular glass: from amorphous state to new polymorphic forms in the API sodium naproxen

3:30 PM – 5:00 PM
Coffee break – Poster session 2 (MS01, MS02, MS08, MS11, MS12) – Exhibition – Group Photo
Common Spaces

4:00 PM – 5:00 PM
Lachlan's Software Fayre
Salle 6+7

4:00 PM – 4:45 PM
Anton Paar Seminar Anton Paar
Salle Delamuraz

4:45 PM – 5:00 PM
OXFORD CRYOSYSTEMS
Salle Delamuraz

5:00 PM – 5:45 PM
Young Scientist Award
Room Salle Delamuraz Chair: **Dorthe B. Ravnsbæk**

Rebecca Pittkowski
University of Copenhagen, Denmark
Probing Catalysts in Action: Multi-technique Operando Studies of Nanoparticle Electrocatalysts

5:45 PM – 6:45 PM
Plenary Lecture 4 – Sponsored by Malvern Panalytical
Room Salle Delamuraz Chair: **Federica Bertolotti**

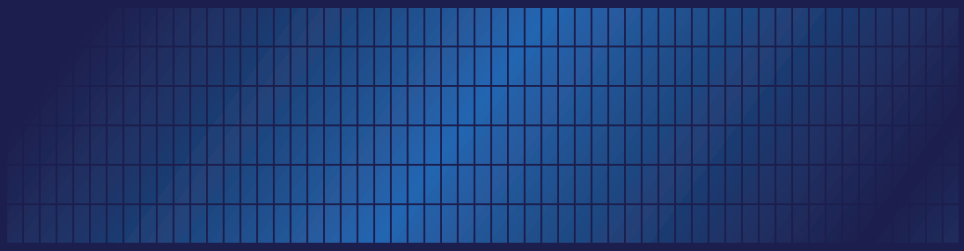
Philip Chater
Diamond Light Source Ltd, UK
Powder diffraction and total scattering across time-scales at Diamond Light Source

7:30 PM – 12:00 AM
Conference Dinner: Fondation l'Opale. Buses: 7:00 PM - 7:30 PM (Zier-Régent) Return 11:00 PM -12:00 AM

DECTRIS 20 YEARS ENABLING SCIENTIFIC BREAKTHROUGHS

June 26

Redefining 1D Resolution



Get ready for the **newest POLLUX** X-ray detector, redefining 1D resolution and giving you finer, more detailed sampling of your diffraction peaks than ever before. Don’t miss the launch. Join us at our Lunchtime Seminar on Friday, June 26, at 12:30 to learn all the details!

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FRIDAY, JUNE 26

8:30 AM – 9:30 AM

Plenary Lecture 5 – Sponsored by

Room Salle Delamuraz Chair: **Petr Bezdička**

Silvie Švarcová

Czech Academy of Sciences, Czech Republic

Hidden, Unknown, Unexpected: Unlocking Provenance, Technology and Degradation in Painted Artworks by X-ray Powder Diffraction

9:30 AM – 10:00 AM

Coffee break – Poster session 2 (MS01, MS02, MS08, MS11, MS12) – Exhibition

Common Spaces

10:00 AM – 12:00 PM

Parallel sessions

MS11: ML and general AI approaches for data collection and analysis

Room	Salle Delamuraz	
Chairs	**Rosanna Rizzi**, **Simon Billinge**	
10:00 AM 10:30 AM	Keynote 1 **Toms Rekis**	Deep learning approach for solving crystal structures from low-resolution data
10:30 AM 11:00 AM	Keynote 2 **Martin A.Karlsen**	From synchrotron-dependency to in-house experiments: a self-driving lab for nanoparticle synthesis
11:00 AM 11:20 AM	Oral 1 **Adam Sapnik**	Tackling real-world crystal structure prediction from powder X-ray diffraction data
11:20 AM 11:40 AM	Oral 2 **Navid Panchi**	Nanoparticle Shape Optimization using Differentiable Total Scattering
11:40 AM 12:00 PM	Oral 3 **Federica Bertolotti**	Tracking Atomic-Scale Structural Evolution in Bimetallic Nanoparticles Using Deep Learning and X-ray Scattering

MS08: Neutron scattering in materials science

Room	Salle 6+7	
Chairs	**Mogens Christensen**, **Romain Sibille**	
10:00 AM 10:30 AM	Keynote 1 **Vladimir Pomjakushin**	Powder neutron diffraction on topological magnets
10:30 AM 11:00 AM	Keynote 2 **Alexandra Gibbs**	Magnetism and chirality in complex osmates
11:00 AM 11:15 AM	Oral 1 **Samuel H. Moody**	Magnetic Lock-In Transition and Exchange Frustration in the Polar Semimetal EuAuBi
11:15 AM 11:30 AM	Oral 2 **Dariusz J.Gawryluk**	Magnetism-Induced Symmetry Breaking in $YNiO_3$ Across the Néel Transition Revealed by Powder Diffraction
11:30 AM 11:45 AM	Oral 3 **Caroline Kirk**	Sustainable Approaches to Uranium Remediation: Insights from Neutron Powder Diffraction
11:45 AM 12:00 PM	Oral 4 **Emmanuelle Suard**	In-Situ and Operando Neutron Powder Diffraction on Li-ion batteries at the ILL

12:00 PM – 1:30 PM

Lunch – Poster session 2 (MS01, MS02, MS08, MS11, MS12) – Exhibition

Common Spaces

12:30 PM – 1:30 PM

Lachlan's Software Fayre

Salle 6+7

12:30 PM – 1:15 PM

Dectris Seminar

Salle Delamuraz

DECTRIS

FRIDAY, JUNE 26

1:30 PM – 3:30 PM
Parallel sessions

MS01: Functional materials: state of the art and advances

Room	Salle Delamaruz	
Chairs	**Wendy Queen**, **Mark Senn**	
1:30 PM 2:00 PM	Keynote 1 **Valentina Colombo**	Crystallography Beyond Structure in Metal–Organic
2:00 PM 2:30 PM	Keynote 2 **Felipe Gándara**	Chemical and Structural Complexity in functional Multi-metal Metal-Organic Frameworks
2:30 PM 2:50 PM	Oral 1 **Lara Janus**	Control of A-site cation order and concentration in Prussian blue analogues
2:50 PM 3:10 PM	Oral 2 **Kai Röseler**	Synthesis-Controlled Vacancy Disorder and Superstructures in Delafossite-Type $Rb_{1-x}CrTe_2$
3:10 PM 3:30 PM	Oral 3 **Javier Gainza**	Stabilisation of bulk infinite-layer nickelates and new structural insights by means of high-resolution powder X-ray and neutron diffraction

MS12: Advances at large facilities, ultra-fast studies and extreme conditions

Room	Salle 6+7	
Chairs	**Malgorzata Makowska**, **Jonathan Wright**	
1:30 PM 2:00 PM	Keynote **Ulf Zastrau**	Time-resolved diffraction at an X-ray free-electron laser: femtosecond pump–probe and MHz studies at extreme conditions
2:00 PM 2:30 PM	Keynote 2 **Steven Van Petegem**	Time-resolved diffraction during laser–material interaction: operando studies under extreme thermal conditions
2:30 PM 2:50 PM	Oral 1 **Adam Sapnik**	High-quality ultra-fast total scattering and pair distribution function data using an X-ray free electron laser
2:50 PM 3:10 PM	Oral 2 **Mathias Sander**	Ultrafast Photoinduced transition of $Cr:V_2O_3$
3:10 PM 3:30 PM	Oral 3 **Martina Vrankić**	Lead-free hybrid ferroelectrics under high pressure: record-low compressibility in $[N(C_2H_5)_3CH_3]FeCl_4$

3:30 PM – 4:00 PM
Coffee break

4:00 PM – 5:00 PM
Plenary Lecture 6 – Sponsored by Anton Paar

Room Salle Delamaruz — Chair: **Maxwell Terban**

Bernd Hinrichsen

Momentum Transfer, Germany

Powder Diffraction Data: What We Collect, What We Lose, and What We Ignore

5:00 PM – 5:30 PM
Best Poster Awards Ceremony

Room Salle Delamaruz

5:30 PM – 5:45 PM
Closing Ceremony

Room Salle Delamaruz

List of posters

MS01 – Poster session 2

MS01P01	**L. Adami** Rietveld Structural Analysis of Tl^{+}-Exchanged K-L Zeolite from Powder Diffraction Data
MS01P02	**L. Androš Dubraja** Correlating crystalline structure of $LaCoO_3$ perovskites with the photocatalytic degradation of cefixime
MS01P03	**N. Audebrand** Cations localisation within the pores of the crystal structure of a terbium-based luminescent MOF as a chemical sensor
MS01P04	**E. Batisai** Investigating the effect of the metal ion in carbon dioxide sorption in flexible isostructural metal–organic frameworks
MS01P05	**R. J. Cernik** Probing the Entropic Stabilization of High-Entropy Lanthanide Oxysulfates
MS01P06	**C. F. Eugenio** Structure and magnetism of non-equimolar compositionally complex oxides
MS01P07	**T. Grgurić** Role of liquid in cocrystallization of 2,2'-bipyridine with salicylic and anthranilic acid
MS01P08	**M. Jurić** Effect of temperature on structural properties and photocatalytic performance of Ni- and Mn-doped $LaCoO_3$
MS01P09	**D. Kuznetsov** Lattice oxygen coupling during water oxidation on an oxide electrocatalyst probed by X-ray and neutron techniques
MS01P10	**P. N. Lekshmi** Structural Evolution and Uniaxial Negative Thermal Expansion in $RbNdTa_2O_7$
MS01P11	**J. J. B. Levinsky** The Role of Hydrogen Bond Competition in the Colossal Barocaloric Response of Choline-based Plastic Crystals
MS01P12	**K. Lisac** Novel topologies of zinc imidazolate (ZnIm2) prepared by mechanochemistry
MS01P13	**V. Martinez** Liquid additive directed mechanosynthesis of copper (II) based Ruddlesden-Popper perovskites
MS01P14	**P. P. Mazzeo** Mechanochemistry-Accessed MOF Polymorphism Revealed by an Integrated 3DED/DFT-Assisted Rietveld Analysis
MS01P15	**J.A.O. Neto** Structural and Electrochromic Properties of IR-MOF-74 III Thin Films on Functionalized FTO Substrates
MS01P16	**K. Okyere** Agro-waste-derived functional materials for dye removal: Cocoa nib shell functionalized gum ghatti grafted poly (acrylamide-co-acrylic acid)
MS01P17	**E. Petrović Hađar** Thermo-mechanochemistry towards new MOF-74 derivatives
MS01P18	**H.S. Rahimi Mosafer** Solubility limit and thermostructural properties of new kagome material
MS01P19	**D.Terebenec** Short-range atomic structure of $Pd_{40}Cu_{30}Ni_{10}P_{20}$ metallic glass: insights from Xray pair distribution function analysis in bulk and thin films
MS01P20	**M. Toku** Pristine Amorphous Silica Xerogel inclusion in Limestone Calcined Clay Cement (LC3) production
MS01P21	**S. Welzmiller** Digging into different symmetries in crowded systems: C3S, C2S, C3A and all the polymorphs
MS01P22	**A. A. White** Exploring Structural Properties of the Al-Mn-Ni based φ Phase
MS01P23	**K. F. Würzer** Selective Synthesis of Cobalt Oxo Cubane Polymorphs
MS01P24	**Y. Xu** Mechanochemical synthesis of biocompatible metal-organic frameworks and guest encapsulation

MS02 – Poster session 2

MS02P01	**S. Bette** CO_2 and H_2O sorption induced bulk-phase changes of CALF-20 captured using in situ laboratory X-ray powder diffraction
MS02P02	**D. Bonavia** The new Debye beamline at SLS2.0: a versatile operando platform for X-ray scattering and X-ray absorption spectroscopy
MS02P03	**S. Burazer** Operando XRD Investigation Towards Industrially Relevant Battery Configurations Using the DANOISE Cell
MS02P04	**E. Díaz-Acevedo** In-situ hydration studies of PC: a joint laboratory powder diffraction ($MoK_{\alpha 1}$) and calorimetry approach
MS02P05	**F. Fauth** MSPD : 12 years of SXRPD on Operando Batteries at ALBA, MSPD2 to come
MS02P06	**F. H. Gjørup** A(nother) file format? A standardized format for large azimuthally integrated area detector data
MS02P07	**D. S. Gonçalves** A High-Pressure Capillary Reactor for In Situ and Operando Powder X-Ray Diffraction: Design and Proof-of-Concept Performance
MS02P08	**G. Guerrero-Muñoz** In situ hydration studies of C_3S: a joint laboratory powder diffraction (MoKα1) and calorimetry approach
MS02P09	**K. Hibino** Temperature-Dependent Crystallization Behavior of Natural Rubber during Stretching Studied by In-situ WAXS
MS02P10	**J. Jacobs** A simple Capillary Reactor to Study Solid/Solid and Solid/Gas Reactions in the Lab by in situ XRD with Coupled Mass Spectrometry (XRD-MS)
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MS02P12	**M. J. Marks** Multimodal Operando XRD, PDF and XAS Reveal the Structural Evolution of Layered Ni OER Catalysts
MS02P13	**K. Marshall** Science with combined scattering and spectroscopy experiments on BM31 at SNBL
MS02P14	**C. McMonagle** A new sapphire capillary cell: a moderate pressure cell for powder diffraction at The Swiss-Norwegian Beamlines at ESRF

MS02P15	**L. F. Pedersen** Tracking and modelling the in situ formation of NiCo layered double hydroxides using pair distribution function analysis
MS02P16	**B. Puhr** In Situ and Operando X-Ray Diffraction Under Non-Ambient Conditions: Recent Application Examples
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MS02P18	**R. Rae** Understanding the Dehydration and Rehydration Pathway of Calcium Monosulfoaluminate
MS02P19	**A. Shlyaykher** Polymorphism of Tl[ChCN] (Ch=O, S, Se)
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MS02P21	**V. Smith** Investigating the Structural Response of the CAU-64 Family of Compounds to Temperature and Humidity Through Combined Laboratory Single-Crystal and Powder Diffraction Studies
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MS02P23	**J. Thomas-Hunt** The Fast Formation of Yttrium Iron Garnet: an In-Situ Study of Sol-Gel Synthesis
MS02P24	**J. Volný** Energy dispersive X-ray diffraction in laboratory conditions using 2D photon counting detector
MS02P25	**Q. Zhang** Unravelling the Dynamic Reconstruction of PdIn Intermetallic Nanoparticles during CO_2 Hydrogenation to Methanol by Operando XRD, PDF and XAS

MS03 – Poster session 1

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MS03P02	**J. Edelvang-Pejrup** Capturing High Entropy Oxide Formation: Insights from In Situ X-ray Scattering and Absorption
MS03P03	**A. Herlihy** Overcoming Challenges in High-Pressure Total Scattering: Radial Diffraction with Low-Z Metallic Glass Gaskets
MS03P04	**N. H. Richter** Disordered High-Entropy Transition-metal Hydroxides: Synthesis, Local Structure and OER Activity
MS03P05	**A. Shevchenko** Local structure – bulk property relationship in the mineral Strätlingite
MS03P06	**Y. Shiramata** Extending the Capabilities of Laboratory-Based PDF Measurements
MS03P07	**R. S. Silberg** Exploring Signatures of Ions in Solution with Pair Distribution Function
MS03P08	**A. Simonov** Fast simulation of disordered crystals using Gaussian copulas
MS03P09	**C. A. Triana** Structure Selection Dynamics of Cobalt Nanoparticles from Solution Synthesis
MS03P10	**B. Völker** Advancing PDF Analysis: Fast and High-Quality Local Structure Insights with XRDynamic 500
MS03P11	**M. T. Wharmby** MOF Glasses for Gas Separation: Structural Information from Laboratory Pair Distribution Function Analysis
MS03P12	**F. Z.T. Yang** Earth Abundant Mixed Metal Oxide Catalysts for Polyolefin Upcycling
MS03P13	**L. Yang** 3D probing of hidden nanoscale states in functional materials

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MS04P02	**R. Caradeuc** Crystallographic insights into the solid-solid phase change of pentaglycerine
MS04P03	**J. Doody** Probing structural changes in the lithium imide system through anion doping
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MS04P11	**W. Maiaugree** Sustainable 3D Network Counter Electrodes Based on Peanut Shell–Derived rGO/NiS for Dye-Sensitized Solar Cells
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MS08P03	**E. Kislitsinaa** Combined X-ray and Neutron Diffraction investigation of multimetallic and High-Entropy transition metal Phosphates
MS08P04	**E. Mégroz** SANS-Guided Design of Responsive Microemulsions
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MS09P05	**C. Montembault** Degradation process of ancient egyptian pigments
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MS10P04	**M. A. Kojdecki** Simulated X-ray diffractograms for analysis of crystalline microstructure
MS10P05	**B.S. Newell** Diffraction-Based Quantification of Plasma-Induced Microstructural Evolution in Tungsten
MS10P06	**D. Paulus** X-ray diffraction reveals a new deposition mechanism for Powder Aerosol Deposition of films derived from layered crystalline materials

MS12 – Poster session 2

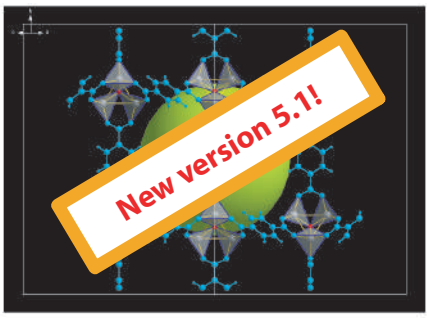
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MS12P02	**M. C. Kokkinidou** Versatile cryogenic sample exchange with the Phenix Front Loader: applications from physics and chemistry of materials to studying planetary ices
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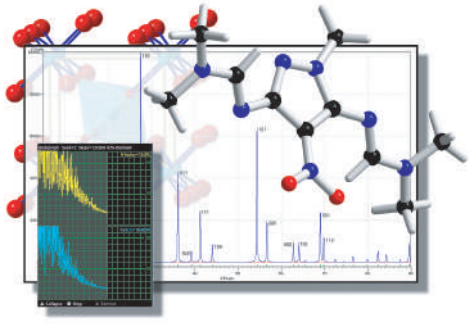
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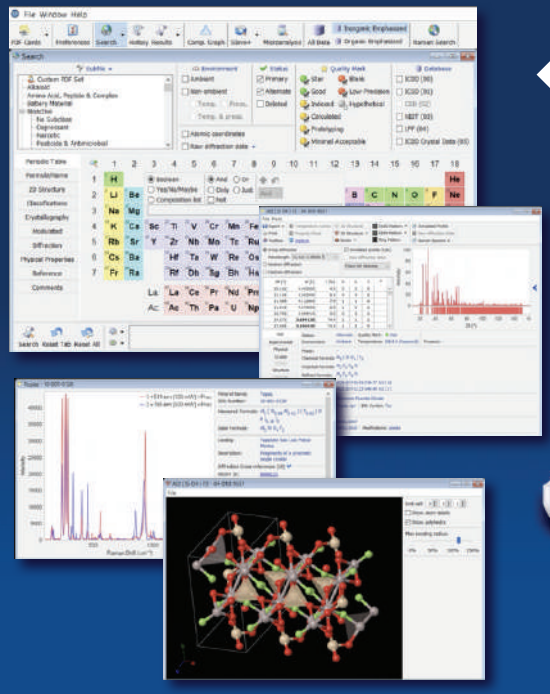


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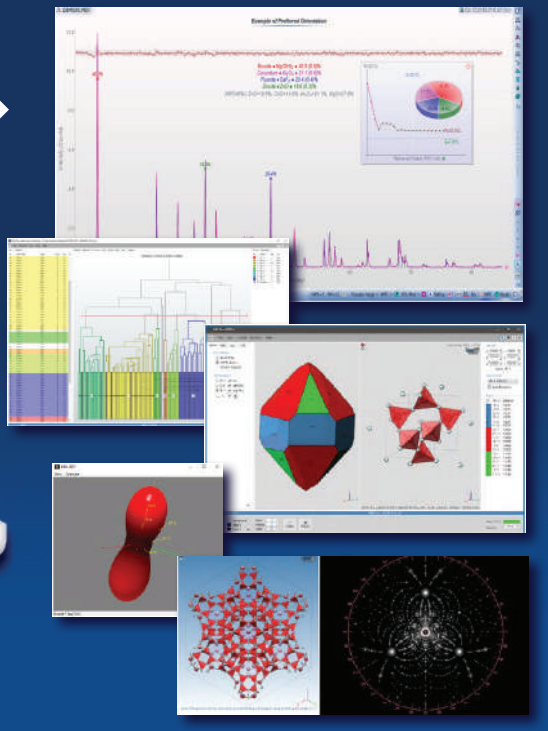
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