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SYNCHROTRON RADIATION IN NATURAL SCIENCE

Bulletin of the Polish Synchrotron Radiation Society
Volume 17, Number 1-2, July 2018

Includes:
Information on PTPS, Programme and List of Abstracts
of the 17th International Conference on X-ray Absorption Fine Structure
(Kraków, Poland, 22-27 July, 2018)

PTPS
Polish Synchrotron Radiation Society

Organised by:
Polish Synchrotron Radiation Society

under the auspices of the International X-ray Absorption Society (IXAS)
supported by International Union of Crystallography (IUCr)

In cooperation with:
National Synchrotron Radiation Centre, Jagiellonian University in Kraków
and Institute of Nuclear Physics PAN, Kraków

under the honorary patronage of Mayor of the Royal City of Kraków Jacek Majchrowski

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SYNCHROTRON RADIATION IN NATURAL SCIENCE
Bulletin of the Polish Synchrotron Radiation Society

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Note for contributors: Contributions in English (preferred) or in Polish should be sent to the Editor. The topics include: synchrotron and alternative radiation sources such as free electron lasers, beamline instrumentation, experimental and theoretical results connected with application of various methods and approaches (x-ray scattering, x-ray diffraction, x-ray absorption, fluorescence and photoelectron spectroscopies, magnetic dichroism, etc.) in connection with application of synchrotron radiation in physics, chemistry, crystallography, materials science and life sciences.

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Dear Colleagues;

It is my pleasure to welcome you to Kraków the most beautiful City of Poland. The City of history, art and science. Here you will have the opportunity to visit one of the oldest University in Europe that is the most important educational center in the country.

As a chairman of the Polish Synchrotron Radiation Society I am very pleased to inform you that Poland has its own synchrotron facility – SOLARIS which is located here in Kraków and that was the reason why the XAFS17 Conference is organized here. During the Conference beside the outstanding lecturers and presentations you will also have a chance to visit SOLARIS.

I wish the meeting will be very attractive for all of you from both scientific and social points of view. I hope the attractive discussions will lead to create new scientific networks and fruitful collaborations.

Have a good time in Kraków!

XAFS17 Chairman

Prof. Wojciech M. Kwiatek

COMMITTEES

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conference is organized by:

PTPS
Polish Synchrotron Radiation Society

under the auspices of the International X-ray Absorption Society (IXAS)

IXAS
International
X-ray Absorption Society

in cooperation with:

SOLARIS
NATIONAL SYNCHROTRON
RADIATION CENTRE

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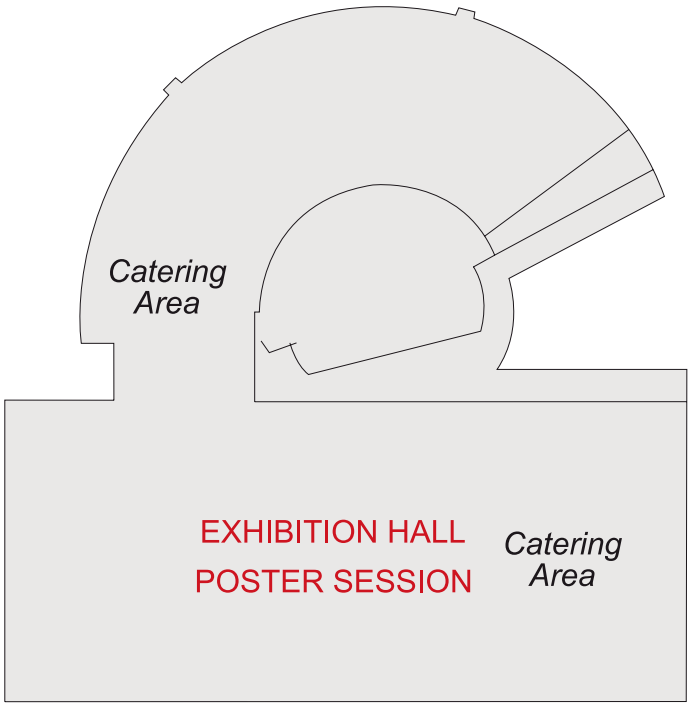
VENUE PLAN

BASEMENT / – 1 LEVEL



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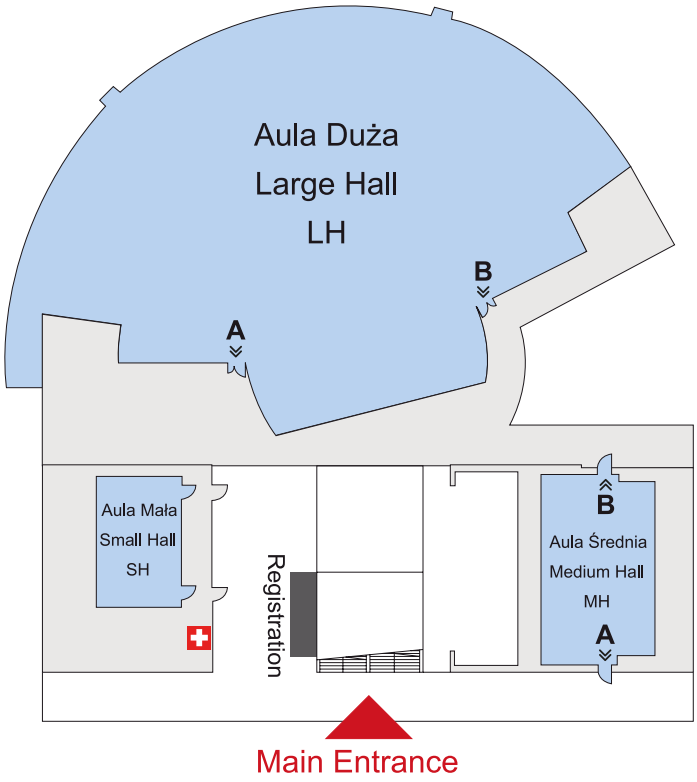

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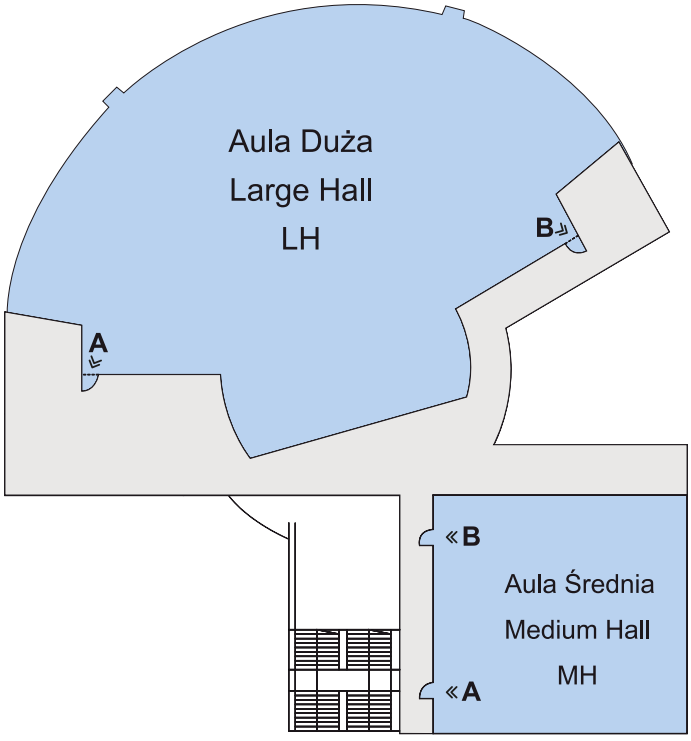

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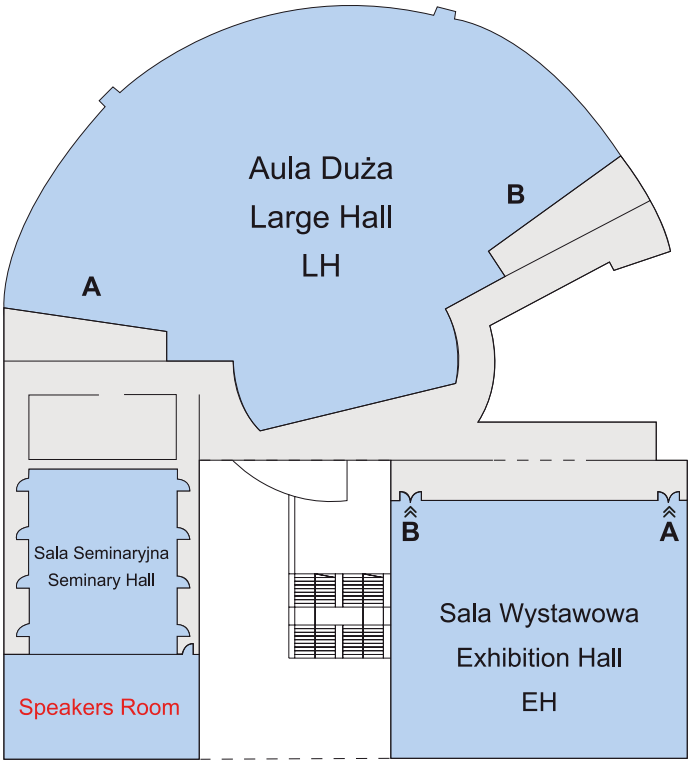

PROGRAMME OVERVIEW

Day 1: Sunday, 22nd July

08:00-21:00	Registation	Foyer
	Workshops:	
09:00-16:20	Workshop on Advances in XAFS Experimental Techniques: Bridging The Light Source Generations	Small Hall
09:00-16:00	An Introduction to XAFS Data Analysis with Athena and Artemis (and Larch)	Exhibition Hall - A
09:00-14:00	Hands-on workshop on spectroscopy with FEFF and DFT	Exhibition Hall - B
09:00-14:00	Hands-on workshop on spectroscopy with GNXAS/RMC/GuI	Seminary Hall
17:00-17:30	**Opening/Welcome** chair: Wojciech M. Kwiatek	Large Hall
17:30-18:15	**PL** **Prof. Marek Stankiewicz** *Synchrotron Solaris - present and future research options* **PL** **Prof. Mikael Eriksson** *SOLARIS and MAX IV; a unique cooperation based on new accelerator concepts*	Large Hall Large Hall
18:15-19:00	**PL** **Dr. Sakura Pascarelli** *Science at High Pressure: the emerging role of X-ray absorption spectroscopies*	Large Hall
19:00-21:00	Welcome Party	

Day 2: Monday, 23rd July

	EH-A Exhibition Hall-A	**EH-B** Exhibition Hall-B	**MH-A** Medium Hall-A Aula Średnia-A	**MH-B** Medium Hall-B Aula Średnia-B	**SH** Small Hall Aula Mała
9:00-9:45	**PL** **Prof. Majed Chergui** *Time-resolved X-ray spectroscopic studies of solar materials and biological systems*				Large Hall
9:45-10:30	**PL** **Prof. Tao Yao** *XAFS in Energy Materials*				Large Hall
10:30-11:00	**Mark Ridgway's session** Ch. Chantler, Ch. Glover, F. Boscherini				Large Hall
11:00-11:30	Coffee break / Exhibition				-1 Level
11:30-13:00	*Spectroscopies at XFEL sources, time-resolved and ultrafast techniques* room: EH-A&B		*Materials science and energy-related materials* room: MH-A	*Magnetism* MH-B *11:30-12:50*	*Earth and environmental sciences* room: SH
13:00-14:30	Lunch / Exhibition				-1 Level
14:30-16:00	*session cont'd* room: EH-A&B *14:30-15:50*		*session cont'd* room: MH-A	*X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy* room: MH-B	*session cont'd* room: SH
16:00-16:30	Coffee break / Exhibition				-1 Level
16:30-17:50	*Applied X-ray techniques* room: EH-A	*Soft matter, Atoms & Molecules* room: EH-B	*session cont'd* room: MH-A	*session cont'd* room: MH-B	*Nanotechnology* room: SH
18:00-20:00	SOLARIS Tour				

PROGRAMME OVERVIEW

Day 3: Tuesday, 24th July

9:00-9:45	**PL** **Dr. Alexei Kuzmin** *Treatment of disorder effects in x-ray absorption spectra beyond conventional approach*	Large Hall
9:45-10:30	**PL** **Prof. Melissa Denecke** *X-ray speciation studies of materials and processes related to the nuclear fuel cycle*	Large Hall
10:30-11:00	**Ziu Wu's session** S. Wei, A. Marcelli, K. Hatada	Large Hall
11:00-11:30	Coffee break / Exhibition	
11:30-18:00	Excursions	
18:00-20:00	Poster Session I	-1 Level

Day 4: Wednesday, 25th July

	EH-A Exhibition Hall-A	**EH-B** Exhibition Hall-B	**MH-A** Medium Hall-A Aula Średnia-A	**MH-B** Medium Hall-B Aula Średnia-B	**SH** Small Hall Aula Mała
9:00-9:45	**PL** **Prof. Jason Shearer** *Why the "Unmakeable" Can Be Made and the "Undoable" Can Be Done - Understanding Purportedly Inaccessible Transition Metal Species Through X-ray Spectroscopies and Electronic Structure Calculations*				Large Hall
9:45-10:30	**PL** **Prof. Hikaru Takaya** *XAS- and DFT-based Mechanistic Study on Homogeneous Iron Catalysis in Organic Synthesis*				Large Hall
10:30-11:00	Coffee break / Exhibition				-1 Level
11:00-13:00	*Software, data analysis, theoretical methods* room: EH-A *11:00-12:30*		*Catalysis* room: MH-A	*Materials science and energy-related materials* room: MH-B *11:00-12:50*	*Life science, biology, biochemistry and medicine* room: SH *11:00-12:40*
13:00-14:30	Lunch / Exhibition				-1 Level
13:45-14:30					Special session ***Technical details of the new high energy (1830-10000 eV) XAS station on SOLARIS*** room: SH
14:30-16:10	*session cont'd* room: EH-A *14:30-15:20*	*Instrumentation, new sources and new beamlines* room: EH-B *14:30-15:50*	*session cont'd* room: MH-A *14:30-16:00*	*session cont'd* room: MH-B	*Life science, biology, biochemistry and medicine* room: SH *14:30-16:00*
16:00-16:30	Coffee break / Exhibition				
16:30-17:50	*session cont'd* room: EH-A	*Instrumentation, new sources and new beamlines* room: EH-B	*session cont'd* room: MH-A	*session cont'd* room: MH-B	*Life science, biology, biochemistry and medicine* room: SH
19:00-23:00	Conference Dinner				

PROGRAMME OVERVIEW

Day 5: Thursday, 26th July

09:00-11:30	Excursion - Kraków Walking Tour				
	EH-A Exhibition Hall-A	**EH-B** Exhibition Hall-B	**MH-A** Medium Hall-A Aula Średnia-A	**MH-B** Medium Hall-B Aula Średnia-B	**SH** Small Hall Aula Mała
11:30-13:00	*Instrumentation, new sources and new beamlines* room: EH-A	*Magnetism* room: EH-B *11:30-12:50*	*Radioactive and nuclear materials* room: MH-A	*New methods and combination of techniques* room: MH-B	
13:00-14:30	Lunch / Exhibition				-1 Level
13:15-14:30	**Meeting of the German XAFS Community** room: EH-A		**General Assembly of the Polish Synchrotron Radiation Society** room: MH-A		
14:30-16:00	*session cont'd* room: EH-A	*session cont'd* room: EH-B	*X-ray microscopy and tomography* room: MH-A	*X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy* room: MH-B	
16:00-16:30	Coffee break / Exhibition				-1 Level
16:30-18:00	*Catalysis* room: EH-A *16:30-17:50*	*session cont'd* room: EH-B *16:30-17:50*	*Radioactive and nuclear materials* room: MH-A *16:30-17:50*	*Joint CXAFS/IXAS session* room: MH-B	
18:00-20:00	Poster Session II				-1 Level

Day 6: Friday, 27th July

9:00-10:30	**PL** **Prof. Andrea Di Cicco** *X-ray Absorption Spectroscopy investigations of disordered matter*	Large Hall
	PL **Dr. Małgorzata Korbas** *From fruit flies to whales: probing mercury toxicity across the animal kingdom with X-ray fluorescence mapping and XAS*	Large Hall
10:30-11:00	Coffee break / Exhibition	-1 Level
11:00-12:10	**Tadashi Matsushita's session** Hitoshi Abe, Sakura Pascarelli, Kiyotaka Asakura	Large Hall
	Ed Stern's session Daniel Haskel, Matthew Newville, Bruce Bunker	Large Hall
12:10-12:30	**IXAS Awards** Matthew Newville, Pieter Glatzel	Large Hall
12:30-13:00	**Summary remarks & Closing**	Large Hall
13:00-14:30	Lunch / Exhibition	-1 Level
14:00-16:00	SOLARIS Tour	

SESSIONS COLOUR LEGEND

- Applied X-ray techniques
- Catalysis
- Earth and environmental sciences
- Instrumentation, new sources and new beamlines
- Joint CXAFS/IXAS session
- Life science, biology, biochemistry and medicine
- Magnetism
- Materials science and energy-related materials
- Nanotechnology
- New methods and combination of techniques
- Radioactive and nuclear materials
- Soft matter, Atoms & Molecules
- Software, data analysis, theoretical methods
- Spectroscopies at XFEL sources, time-resolved and ultrafast techniques
- X-ray microscopy and tomography
- X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy

PL	Plenary Lecture
KN	Keynote Lecture
O	Oral Presentation

LECTURE HALLS:

EH-A	Exhibition Hall-A
EH-B	Exhibition Hall-B
MH-A	Medium Hall-A
MH-B	Medium Hall-B
SH	Small Hall
LH	Large Hall
SRH	Seminary Hall

SCIENTIFIC PROGRAMME

HOW TO READ THE CONFERENCE PROGRAMME

The different formats are highlighted in different colours. The conference programme is listed by day, time and format.

SUNDAY, 22ND JULY

Plenary Session

17:00-19:00 **Large Hall**
Chair: Wojciech M. Kwiatek

17:30 PL-1
Prof. Marek Stankiewicz
Synchrotron Solaris - present and future research options

17:50 PL-2
Prof. Mikael Eriksson
SOLARIS and MAX IV; a unique cooperation based on new accelerator concepts

18:15 PL-3
Dr. Sakura Pascarelli
Science at High Pressure: the emerging role of X-ray absorption spectroscopies

MONDAY, 23RD JULY

Plenary Session

09:00-11:00 **Large Hall**
Chair: Pieter Glatzel

09:00 PL-1
Prof. Majed Chergui
Time-resolved X-ray spectroscopic studies of solar materials and biological systems

09:45 PL-2
Prof. Tao Yao
XAFS in Energy Materials

10:30 Mark Ridgway's session

Christopher Chantler, Chris Glover, Federico Boscherini

Session: Spectroscopies at XFEL sources, time-resolved and ultrafast techniques

11:30-13:00 **Exhibition Hall-A&B**
chair: Majed Chergui

11:30 KN-1
Dr. Jakub Szlachetko
X-ray spectroscopy of nonlinear interactions of X-rays with matter

12:00 O-1
Gerald Seidler
Ultrafast XES During XFEL Heating of Crystalline Fe3O4: Watching Magnetism Melt and Electrons Delocalize

12:20 O-2
Piter Miedema
Excited-state RIXS of Cobaltates

12:40 O-3
Scott Jensen
Understanding and interpreting x-ray emission data from ultrashort pulses

Session: Materials science and energy-related materials

11:30-13:00 **Medium Hall-A**
chair: Andrea Di Cicco

11:30 KN-1
Prof. Faisal Alamgir
XAFS using Combined Soft and Hard X-rays under Operando and In/Ex-situ Conditions to Solve Reaction Mechanisms in Batteries and Electrocatalysts

12:00 O-1
Georg Spiekermann
Valence-to-core X-ray emission spectroscopy for insight into the first and second coordination shells in crystalline and amorphous germanium oxides

12:20 O-2
Themis Sidiropoulos
Attosecond dispersive soft X-ray absorption fine structure spectroscopy in graphite

12:40 O-3
Salvatore Macis
Correlated strain fluctuations in BaPb1-xBixO3 promoting high temperature quantum coherence by novel Scanning-Micro-XANES

Session: Magnetism

11:30-12:50 **Medium Hall-B**
chair: Amelie Juhin

11:30 KN-1
Dr. Corwin Booth
XAFS at the edge of the periodic table: Determining the role of 5f-orbital delocalization in bonding and magnetism

12:00 KN-2
Prof. Daniel Haskel
X-ray resonant probes of magnetism at high pressures: towards realization of novel quantum spin liquids in 5d oxides

12:30 O-1
Philippe Sainctavit
X-ray optical activity of a tricobalt extended metal atom chain

Session: Earth and environmental sciences

11:30-13:00 **Small Hall**
Chair: Augusto Marcelli

11:30 KN-1
Dr. Andrew Berry
The quantitative determination of oxidation state ratios in minerals and melts

12:00 O-1
Chuanyong Jing
XAFS study of antimony adsorption on faceted TiO2

12:20 O-2
Delphine Vantelon
Characterization of the network organization of iron-organic matter nano-aggregates and its impact on arsenic uptake

12:40 O-3
Marija Krstulovic
Local structural changes in amorphous NaAlGe3O8 upon compression to 50 GPa

Session: Spectroscopies at XFEL sources, time-resolved and ultrafast techniques

14:30-15:50 **EH-A&B**
chair: Christian Bressler

14:30 KN-1
Dr. Wojciech Gawelda
Femtosecond X-ray Experiments: new observables for chemical dynamics studies

KN-2
15:00 Gyorgy Vanko
Tracking chemical transformations of transition metal complexes

15:30 O-1
Yohei Uemura
Ultrafast structural changes of photocatalysts studied by transient XAFS

SCIENTIFIC PROGRAMME

Session: Materials science and energy-related materials

14:30-16:00 **Medium Hall-A**
chair: Paola D'Angelo

14:30 KN-1
Prof. Jianzhong Jiang
Atomic structure changes in amorphous alloys

15:00 O-1
Oliviero Cannelli
Element selective probing of the photo-induced charge carriers in inorganic lead perovskites

15:20 O-2
Didier Grandjean
Atomic-Scale Reversible Opto-Structural Switching of Few Atom Luminescent Silver Clusters in LTA Zeolites Unraveled By a Combination of XAFS and Optical Spectroscopies

15:40 O-3
Aram Bugaev
Advanced characterization of palladium catalysts by in situ, operando and time-resolved X-ray absorption and scattering

Session: X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy

14:30-16:00 **Medium Hall-B**
chair: Jacinto Sá

14:30 KN-1
Prof. Federico Boscherini
Studies of charge transfer in photocatalytic materials by resonant scattering methods

15:00 O-1
Carlo Lamberti
The Effect of Molecular Guest Binding on the d-d Transitions of Ni2+ of CPO-27-Ni: a Combined UV-Vis, Resonant Valence to Core XES and Theoretical Study

15:20 O-2
Lukas Burkhardt
Exploring the Sensitivity of HERFD-XANES and VtC-XES to Probe Hydride Interactions and Spin States in Transition Metal Complexes

15:40 O-3
Piter Miedema
3d-, 3s-Partial Fluorescence yield XAS and RIXS electronic structure characterization - some insights on the L2,3-edge of 3d-metal materials

Session: Earth and environmental sciences

14:30-16:00 **Small Hall**
Chair: Andrew Berry

14:30 KN-1
Dr. Joerg Goettlicher
Application of X-ray Absorption Spectroscopy in Earth and Environmental Sciences

15:00 O-1
Ning Chen
XAS characterization of nano-chromite particles precipitated on magnetite-biochar composites

15:20 O-2
Flora Maria Brocza
Mercury speciation at a former wood preservation site

15:40 O-3
Marcel Görn
Structural incorporation of Mo6+ into iron oxides

Session: Applied X-ray techniques

16:30-17:50 **Exhibition Hall-A**
Chair: Wolfgang Caliebe

16:30 O-1
Tsun Sham
Synchrotron radiation in application to 19th century daguerreotypes

16:50 O-2
Nicolas Finck
Iron speciation in smectites of different charge and charge location

17:10 O-3
Haruaki Matsuura
Local Structural Analysis of Rare Earth Complex in the Adsorbents for Extraction Chromatography

17:30 O-4
Yakub Fam
Synchrotron nanotomography studies of hierarchical nanoporous gold catalysts

Session: Soft matter, Atoms & Molecules

16:30-17:50 **Exhibition Hall-B**
Chair: Bronisław Orłowski

16:30 O-1
Robert Hauko
K-edge absorption spectra of isoelectronic gaseous hydrides: a combination of atomic and molecular channels

16:50 O-2
Bethan Evans
Structural Characterization of Organic Salts by Combined X-ray Raman Scattering and Excited-State DFT Calculations

17:10 O-3
Thokozile A. Kathyola
Combined operando X-ray absorption and infrared spectroscopy of multiphase multicomponent calcium carbonate crystallization processes

17:30 O-4
Francesco Sessa
Studying metal speciation in non-conventional solvents through X-ray absorption spectroscopy and molecular dynamics

Session: Materials science and energy-related materials

16:30-17:50 **Medium Hall-A**
chair: Faisal Alamgir

16:30 O-1
Grigory Smolentsev
Time-resolved XAS to study molecular photocatalytic H2 evolving systems

16:50 O-2
Amélie Bordage
Photomagnetic Prussian Blue analogue as 5 nm-particles : Structural and electronic effects of size reduction

17:10 O-3
Emiliano Fonda
Pressure induced amorphization of molecular crystals: SnI4 and GeI4

17:30 O-4
Inga Jonane
Low-temperature X-ray absorption spectroscopy study of CuMoO4 and CuMo0.90W0.10O4 using advanced reverse Monte-Carlo simulations

SCIENTIFIC PROGRAMME

Session: X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy

16:30-17:50 **Medium Hall-B**
chair: Federico Boscherini

16:30 O-1
Jan-Dierk Grunwaldt
Operando X-ray absorption and emission spectroscopic study of V-W-TiO2 catalysts for NOx removal from the diesel exhaust

16:50 O-2
Laila H. Al-Madhagi
Combined X-ray Raman Scattering and NEXAFS Analysis of Imidazole in Aqueous Solutions: Structural Evolution during Cooling Crystallisation

17:10 O-3
Shogo Kusano
Observation of Electronic State Related to Fe Bonding in Fe-N-C Catalyst by X-ray Emission Spectroscopy

17:30 O-4
Luke Higgins
Carbon K-edge X-Ray Raman Spectroscopy (XRS) of Sustainable Hydrothermal Carbons at two Popular Beamlines (APS-ID20, ESRF-ID20)

Session: Nanotechnology

16:30-17:50 **Small Hall**
chair: Krystyna Jabłońska

16:30 O-1
Dirk Lützenkirchen-Hecht
EXAFS investigations of Cobalt electrodeposition

16:50 O-2
Tristan Petit
Soft X-ray absorption spectroscopy of aqueous dispersions of nanoparticles in the water window

17:10 O-3
Jing Liu
Reversed Nanoscale Kirkendall Effect in Au-InAs Hybrid Nanoparticles

17:30 O-4
Marte van der Linden
From silver ions to atomically monodisperse Ag29 clusters

TUESDAY, 24TH JULY

Plenary Session

09:00-11:00 **Large Hall**
Chair: Matthew Newville

09:00 PL-1
Dr. Alexei Kuzmin
Treatment of disorder effects in x-ray absorption spectra beyond conventional approach

09:45 PL-2
Prof. Melissa Denecke
X-ray speciation studies of materials and processes related to the nuclear fuel cycle

10:30 Ziu Wu's session

Shiqiang Wei, Augusto Marcelli, Keisuke Hatada

Poster Session I

18:00-20:00 **Basement /-1 level**

I. Spectroscopies at XFEL sources, time-resolved and ultrafast techniques
II. Materials science and energy-related materials
III. Soft matter; Atoms and molecules
IV. Nanotechnology
V. Magnetism
VI. Cultural heritage
VII. Earth and environmental sciences

WEDNESDAY, 25TH JULY

Plenary Session

09:00-10:30 **Large Hall**
Chair: Bruce Bunker

09:00 PL-1
Prof. Jason Shearer
Why the "Unmakeable" Can Be Made and the "Undoable" Can Be Done - Understanding Purportedly Inaccessible Transition Metal Species Through X-ray Spectroscopies and Electronic Structure Calculations

09:45 PL-2
Prof. Hikaru Takaya
XAS- and DFT-based Mechanistic Study on Homogeneous Iron Catalysis in Organic Synthesis

Session: Software, data analysis, theoretical methods

11:00-12:30 **Exhibition Hall-A**
chair: Joshua Kas

11:00 KN-1
Dr. Keith Gilmore
First principles Calculations of Resonant Inelastic X-ray Scattering

11:30 O-1
Yves Joly
Ab initio simulation of Surface Resonant X-ray Diffraction

11:50 O-2
Martin Schalken
Propagation of uncertainty in experiment: structures of Ni (II) coordination complexes

12:10 O-3
Guido Fratesi
Lattice mismatch and spectroscopy of buckybowls on Ag(111)

Session: Catalysis

11:00-13:00 **Medium Hall-A**
chair: Valérie Briois

11:00 KN-1
Prof. Kiyotaka Asakura
Elucidation of local structure change of photocatalysts during the photoabsorption process by use of fs-ps pump-probe XAFS method

11:30 KN-2
Dr. Ritimukta Sarangi
Homogeneous Catalysis at SSRL: From Metalloenzymes to Energy Materials

12:00 O-1
Jeroen A. van Bokhoven
Single particle XAS spectroscopy to elucidate fundamental processes in catalysis

12:20 O-2
Elisa Borfecchia
XAS reveals structure-activity relationships for the methane to methanol conversion over Cu-SSZ-13 zeolites

12:40 O-3
Xiao Yan Liu
Resolving structures of atomically dispersed M-N-C catalysts

SCIENTIFIC PROGRAMME

Session: Materials science and energy-related materials

11:00-12:50 **Medium Hall-B**
chair: Tsun Sham

11:00 KN-1
Dr. Antonella Iadecola
Decoupling cationic-anionic redox processes in Li-rich cathodes using operando X-ray absorption spectroscopy

11:30 O-1
Holger Meyerheim
Surface doping of Bi2Se3(0001) by Cr and Au studied by EXAFS

11:50 O-2
Henning Lichtenberg
Synchrotron-based operando studies of Ni-based catalysts for methanation of CO2

12:10 O-3
Angelo Mullaliu
The peculiar redox mechanism of copper nitroprusside disclosed by a multi-technique approach

12:30 O-4
Augusto Marcelli
The dynamics of Fe oxidation in amphiboles: electronics processes vs. local structural strain by means of simultaneous XRD and XAS experiments

Session: Life science, biology, biochemistry and medicine

11:00-12:40 **Small Hall**
chair: Sofia Diaz-Moreno

11:00 KN-1
Prof. Jacinto Sá
Atomic telemetry: in situ determination of anti-cancer drug mechanism of action

11:30 KN-2
Dr. Marcin Klepka
XAFS studies of non-crystalline metal organic-ligand complexes

12:00 O-1
Katharina Witte
A Carbon K-edge NEXAFS Study of the Chlorophyll Derivative Sodium Copper Chlorophyllin and its Breakdown Products

12:20 O-2
Michał Nowakowski
Attempt to determine the structure of the huPrPC-Cu(II)/Zn(II) complexes.

Special session

13:45-14:30 **Small Hall**
Technical details of the new high energy (1830-10000 eV) XAS station on SOLARIS

Session: Software, data analysis, theoretical methods

14:30-15:30 **room: Exhibition Hall-A**
chair: Keith Gilmore

14:30 O-1
Anatoly Frenkel
Advances in nanoparticle structure characterization by X-ray absorption spectroscopy

14:50 O-2
Joshua Kas
Corvus: A Workflow Tool for X-Ray and Related Spectroscopies

15:10 O-3
Nadejda Bouldi
Calculations of core level spectroscopies including many-body effects: influence of the model

Session: Instrumentation, new sources and new beamlines

14:30-15:50 **Exhibition Hall-B**
chair: Henryk Fiedorowicz

14:30 KN-1
Prof. Birgit Kanngiesser
Current and future possibilities of XAFS in the laboratory

15:00 KN-2
Dr. Jakob Andreasson
The study of ultrafast phenomena using X-ray spectroscopy and related techniques at the ELI Beamlines facility

15:30 O-1
Mauro Rovezzi
TEXS: high-efficiency in-vacuum tender X-ray emission spectrometer based on eleven cylindrically bent Johansson crystal analyzers

Session: Catalysis

14:30-16:00 **Medium Hall-A**
chair: Hikaru Takaya

14:30 KN-1
Dr. Andrea Zitolo
IIdentification of catalytic sites in non-precious metal electrocatalysts for PEM fuel cells

15:00 O-1
Fernando Vila
Dynamic anomalies in the nanoscale structure and disorder of supported metal nanoparticles

15:20 O-2
Christopher Schlesiger
Catalysis research with laboratory XAFS – two first application examples

15:40 O-3
Akihiko Kato
Effect of CO2 on NOx Storage and Reduction (NSR) catalyst studied by spatio-temporal operando XAFS

Session: Materials science and energy-related materials

14:30-16:10 **Medium Hall-B**
chair: Agnieszka Witkowska

14:30 O-1
Sang-Wook Han
The influence of structural disorder and phonon on the metal-to-insulator transition of VO2

14:50 O-2
Lucia Amidani
Oxidation and luminescence quenching of europium doped BaMgAl10O17 probed by HERFD-XANES

15:10 O-3
Krzysztof Maćkosz
Local structure of dopants in bismuth chalcogenides probed with EXAFS

15:30 O-4
Soma Chattopadhyay
In situ XANES/EXAFS study of the formation of doped and undoped hollow g-Fe2O3 nanoparticles

15:50 O-5
Gianluca Ciatto
Ga clustering and Ga-H interaction in virgin and hydrogenated InGaN/GaN nanostructures addressed via Ga K-edge diffraction anomalous fine structure spectroscopy

Session: Life science, biology, biochemistry and medicine

14:30-16:00 **Small Hall**
chair: Jason Shearer

14:30 KN-1
Dr. Junko Yano
Taking Snapshots of Water Oxidation Reaction in Photosystem II at X-ray Free Electron Lasers

SCIENTIFIC PROGRAMME

15:00 O-1
Mikhail Soldatov
The Insight into Td3+/Oh2+/3+ Fe Site Distribution in Iron Oxide Magnetic Nanoparticles for Medical Applications.

15:20 O-2
Paweł Rejmak
Refining the structures of novel Cu(II) bioactive complexes: XAFS spectroscopy, laboratory techniques and DFT calculations

15:40 O-3
Joanna Kowalska
Insights into the Magnetic Coupling of Iron and Heterometal Atoms in FeMo and FeV Cofactor of Nitrogenase Enzyme

Session: Software, data analysis, theoretical methods

16:30-17:50 **Exhibition Hall-A**
chair: Anatoly Frenkel

16:30 O-1
Keisuke Hatada
Recent developments on ES2MS package

16:50 O-2
Alexander Guda
Multiplet ligand field approach based on Wannier functions for ab initio simulations of RIXS

17:10 O-3
Masashi Ishii
Model-free determination of interatomic distance by using a new mathematical XAFS oscillation analysis

17:30 O-4
Dmitry Bocharov
Interpretation of the Cu K-edge EXAFS spectra of Cu3N using ab initio molecular dynamics

Session: Instrumentation, new sources and new beamlines

16:30-17:50 **Exhibition Hall-B**
chair: Wojciech Gawełda

16:30 O-1
Ioanna Mantouvalou
Nanosecond pump-probe soft X-ray NEXAFS spectroscopy using a laser-produced plasma source

16:50 O-2
William Holden
A Versatile Tender X-ray Emission Spectrometer for Benchtop Analytical XES and Synchrotron RIXS Without Constraint on Source Size

17:10 O-3
Oliver Mueller
From point-to-point, to continuous and quick scanning EXAFS: achieving time resolution

17:30 O-4
Gülperi Cavusoglu
Investigation of a Rh/CeO2 Catalyst and a Pd Membrane in a Micro-Structured Membrane Reactor

Session: Catalysis

16:30-17:50 **Medium Hall-A**
chair: Ritimukta Sarangi

16:30 O-1
Dzulija Kuzmenko
X-ray absorption spectroscopy as a tool for in situ investigating sulfur poisoning and regeneration of ruthenium supported nanoparticles for dry biomass derived syngas methanation

16:50 O-2
Rafal Baran
Dynamic changes of Mn species in MnSiBEA zeolite under NH3-SCR realistic conditions monitored by XAS and XES spectroscopies

17:10 O-3
Chen Liu
In situ XAS study of temperature effect on the oxygen reduction reaction of Pt-Pd/C core-shell catalyst

17:30 O-4
Husn Ubayda Islam
Operando Infrared and XAS study of NO adsorption on zeolite supported palladium under complex gas feeds

Session: Materials science and energy-related materials

16:30-17:50 **Medium Hall-B**
chair: Antonella Iadecola

16:30 O-1
Alvaro Muñoz Noval
Metal Chelation with Carboxylic Acids and its structure in solution as strategy to accelerate the electrodeposition of metals in nanocavities

16:50 O-2
Tomohiro Sakata
In-situ observation of the adsorption species on carbon-supported Platinum catalyst in polymer electrolyte fuel cells probed by HERFD-XANES

17:10 O-3
Alexey Boubnov
In-situ EXAFS/XANES Studies of Reactive Sorption of Hydrogen Sulfide by Copper Oxide Sorbents

17:30 O-4
Alain Michalowicz
Multivariate Curve Resolution with Alternating Least Square Fitting: An optimized algorithm for providing chemical speciation from time-resolved XAS data with a high time frame

Session: Life science, biology, biochemistry and medicine

16:30-17:50 **Small Hall**
chair: Maciej Kozak

16:30 O-1
Shino Homma-Takeda
Two-dimensional μXAFS for uranium in kidney of rats exposed to uranyl acetate

16:50 O-2
George Cutsail
High-Resolution EXAFS Supports an Open-Core Structure in the Q Intermediate of Methane Monooxygenase

17:10 O-3
Maria Magdalena Grzelak
Quantification of selected elements and speciation of iron in ovarian cancer tumours and their potential as a malignancies indicator

17:30 O-4
Michael Haumann
Effective Intermediate-Spin Iron in O2-Transporting Heme Proteins

THURSDAY, 26TH JULY

Session: Instrumentation, new sources and new beamlines

11:30-13:00 **Exhibition Hall-A**
chair: Jakob Andreasson

11:30 KN-1
Narcizio Souza-Neto
X-ray spectroscopy at the Extreme condition Beamline of Sirius source: study of rare earths and actinides

12:00 O-1
Marcin Zając
PEEM/XAS beamline at SOLARIS: Status of the commissioning and first results

SCIENTIFIC PROGRAMME

12:20 O-2
Wolfgang A. Caliebe
XAFS at PETRA IV – What can be done?

12:40 O-3
Thomas Huthwelker
XES Microspectroscopy: A new von Hamos Spectrometer for tender x-rays at the PHOENIX beamline

Session: Magnetism

11:30-12:50 **Exhibition Hall-B**
chair: Corwin Booth

11:30 KN-1
Amelie Juhin
Advanced magnetic spectroscopies for the fine characterization of magnetic nanomaterials

12:00 KN-2
Dr. Marcin Sikora
Mixed valence oxides – interplay between structure and magnetism revealed by X-ray spectroscopy

12:30 O-1
Michał Studniarek
Slowing down magnetization relaxation of lanthanide phthalocyanine double deckers using a thin oxide film

Session: Radioactive and nuclear materials

11:30-13:00 **Medium Hall-A**
chair: Melissa Denecke

11:30 KN-1
Dr. Tonya Vitova
HR-XANES/RIXS structural studies of actinide materials

12:00 O-1
Joerg Rothe
XAFS and μ-XANES/XRF investigation of highly radioactive spent nuclear fuel fragments at the KIT synchrotron source

12:20 O-2
Sergei Butorin
Electronic structure of actinide compounds by high-resolution x-ray absorption spectroscopy

12:40 O-3
Evgeny Gerber
High energy resolution X-ray spectroscopy and diffraction studies of plutonium oxide nanoparticles

Session: New methods and combination of techniques

11:30-13:00 **Medium Hall-B**
chair: Edmund Welter

11:30 KN-1
Dr. Valentina Migliorati
Structural properties of disordered systems: a combined Molecular Dynamics and XAS approach

12:00 O-1
Christopher Chantler
Accuracy and insight possible with advanced methods in absorption and fluorescence XAS

12:20 O-2
Steffen Witte
S2XAFS@work: Customization for the Characterization of VOx based Catalysts

12:40 O-3
Ellie Dann
Following the Evolution of Supported PdO nanoparticle catalysts using a combined XAFS/DRIFTS method

13:15-14:30 **Exhibition Hall-A**

Meeting of the German XAFS Community

13:15-14:30 **Medium Hall-A**

General Assembly of the Polish Synchrotron Radiation Society

Session: Instrumentation, new sources and new beamlines

14:30-16:00 **Exhibition Hall-A**
chair: Marek Stankiewicz

14:30 KN-1
Dr. Przemysław Wachulak
Laser plasma source of the extreme ultraviolet and soft X-ray radiation for NEXAFS and imaging applications

15:00 O-1
Nicola Di Palo
Attosecond Water-Window Soft X-ray source for XANES

15:20 O-2
Steve Heald
Sector 25 at the APS-U: Two new beamlines for spectroscopy

15:40 O-3
Messaoud Harfouche
XAFS/XRF Beamline at SESAME: First Monochromatic Light in the Middle East

Session: Magnetism

14:30-16:00 **Exhibition Hall-B**
chair: Sakura Pascarell

14:30 KN-1
Dr. Gloria Subias
Charge and magnetic orders in single-layer transition-metal oxides: an insight from XAS, XES and REXS

15:00 O-1
Hebatalla Elnaggar
Dynamical local correlations in Magnetite revealed by Fe 2p3d RIXS MCD

15:20 O-2
Juliusz Kuciakowski
Development of superparamagnetism in solutions of nanoparticles studied by means of 1s2p RIXS-MCD

15:40 O-3
S. Fatemeh Shams
Characterization of Pd-decorated cobalt ferrite nanoparticles for magnetic ferrofluid hyperthermia applications

Session: X-ray microscopy and tomography

14:30-16:00 **Medium Hall-A**
chair: Joerg Goettlicher

14:30 KN-1
Prof. Alessandro Olivo
Non-interferometric approaches to x-ray phase contrast imaging

15:00 O-1
Masao Kimura
Identification of trigger sites in crack-formation during heterogeneous reduction of iron-ore sinters using persistent homology

15:20 O-2
J. Fred Mosselmans
Using XANES mapping to examine the speciation of metal debris in tissue

15:40 O-3
Zou Finfrock
Confocal x-ray fluorescence microscopy at the Advanced Photon Source sector 20

SCIENTIFIC PROGRAMME

Session: X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy

14:30-16:00 **Medium Hall-B**
chair: Gyorgy Vanko

14:30 KN-1
Dr. Christoph Sahle
X-ray Raman scattering spectroscopy

15:00 O-1
Fukiko Ota
Theoretical calculation of X-ray absorption near edge structure and photoelectron angular distribution for gas-phase molecule

15:20 O-2
Joaquin Garcia
Charge superstructure in single-layered La2-xCaxCoO4±d (0.4≤x≤0.7) studied by resonant x-ray scattering

15:40 O-3
Saleh Aghakhani
Isolated Ag Cations Interacting with Luminescent Ag Clusters Confined in FAU Zeolites Identified as Highly Active Sites for CO Oxidation By a Combination of XEOL-XAFS, DRIFT and PL Spectroscopy

Session: Catalysis

16:30-17:50 **Exhibition Hall-A**
chair: Kiyotaka Asakura

16:30 O-1
Rok Bohinc
Distribution of aluminum over different T-sites in ferrierite zeolites studied with aluminum valence to core X-ray emission spectroscopy

16:50 O-2
Aleksandra Wandzilak
STXM study of Fe-based NH3 synthesis and decomposition catalyst

17:10 O-3
Yuanjie Cao
Structure-activity correlations of Co single-sites photocatalyst studied by XAFS

17:30 O-4
Cody Wrasman
Structure-activity relationships of Au-Pd single-atom alloys for selective oxidation studied by EXAFS

Session: Magnetism

16:30-17:50 **Exhibition Hall-B**
chair: Gloria Subias

16:30 O-1
Hengli Duan
Beating the exclusion rule against the coexistence of robust luminescence and ferromagnetism in chalcogenide monolayers

16:50 O-2
Verena Ney
Electric field-induced changes in the magnetic properties in doped semiconductors with lack of inversion symmetry

17:10 O-3
Nadejda Bouldi
Electronic and magnetic properties of iron hydride under pressure using XAS and XMCD at the Fe K-edge: a combined theoretical and experimental study

17:30 O-4
Hao Tan
XAFS study on the ferromagnetism in Mn-doped MoS2 nanosheets

Session: Radioactive and nuclear materials

16:30-17:50 **Medium Hall-A**
chair: Tonya Vitova

16:30 O-1
Akihiro Uehara
High temperature reactions of UO2, ZrO2, B4C, CaO, and SiO2 under reducing and oxidizing atmospheres

16:50 O-2
Aaron Beck
U/Pu M4,5 edge HR-XANES investigations (i) of aqueous/colloidal Pu and (ii) at the Zircaloy cladding/spent nuclear fuel interface

17:10 O-3
René Bes
X-ray absorption spectroscopy at laboratory scale: towards new actinide research opportunities.

17:30 O-4
Sarah Saslow
Understanding Tc-99 Retention in Ettringite for Improving Cementitious Waste Forms

Joint CXAFS/IXAS session

16:30-18:00 **Medium Hall-B**
chair: Christopher Chantler

16:30
Short introduction

16:40 O-1
Farideh Jalilehvand
Aerobic Reactions of Antitumor Active Rh2(CH-3COO)4 with Glutathione, Cysteine and Its Derivatives

17:00 O-2
Peter Krüger
Transition metal L-edge spectra with ligand-field multiplet parameters from density functional theory

17:20 O-3
Hidekazu Ikeno
Analyzing RIXS and RIXS-MCD of Iron Oxides by the Ab-initio Multiplet Method

17:40 O-4
Ryan Trevorah
Solving Self-Absorption in Fluorescence: Stereochemical Analysis of mM solutions

Poster Session II

18:00-20:00 **Basement /-1 level**

VIII. Life science, biology, biochemistry and medicine
IX. Catalysis
X. Surfaces and interfaces
XI. X-ray scattering, electron spectroscopy, photon-in & photo-out spectroscopy
XII. Software, data analysis; Theoretical methods
XIII. Instrumentation, new sources and new beamlines
XIV. New methods and combination of techniques
XV. X-ray microscopy and tomography
XVI. Radioactive and nuclear materials

SCIENTIFIC PROGRAMME

FRIDAY, 27TH JULY

Plenary Session

09:00-10:30 Large Hall
Chair: Bruce Bunker

09:00 PL-1
Prof. Andrea Di Cicco
X-ray Absorption Spectroscopy investigations of disordered matter

09:45 PL-2
Dr. Małgorzata Korbas
From fruit flies to whales: probing mercury toxicity across the animal kingdom with X-ray fluorescence mapping and XAS

Plenary Session

11:00-12:50 Large Hall
Chair: Hiroyuki Oyanagi

11:00 Tadashi Matsushita's session

Hitoshi Abe, Sakura Pascarelli, Kiyotaka Asakura

11:40 Ed Stern's session

Daniel Haskel, Matthew Newville, Bruce Bunker

12:10 IXAS Awards

Matthew Newville, Pieter Glatzel

12:30 Summary remarks & Closing

POSTERS LIST

Tuesday, 24th July, 2018, 18:00-20:00

#	Poster board no.	Abstract no	Surname	Fist name	Abstract title
SPECTROSCOPIES AT XFEL SOURCES, TIME-RESOLVED AND ULTRAFAST TECHNIQUES					
1	I - 1	1002	Błachucki	Wojciech	Creation of high valency iron molecule with high intensity ultrashort X-ray pulse
2	I - 2	1005	Choi	Tae Kyu	Ultrafast X-ray spectroscopy of transition metal complexes relevant for catalysis
3	I - 3	1006	Galler	Andreas	Exploring Ultrafast Molecular Dynamics: the Femtosecond X-ray Experiments (FXE) Instrument
4	I - 4	109	Gentle	Cecilia	Internal Atomic-Scale Structure, Band Alignment and Charge Transfer Dynamics of ZnTe/CdSe Core/Shell Quantum Dots
5	I - 5	310	Janulewicz	Karol Adam	Femtosecond time-resolved X-ray spectroscopy with a laser plasma source
6	I - 6	1003	Kayser	Yves	RXES experiments using stochastic data from non-monochromatized XFEL SASE radiation
7	I - 7	232	Keenan	Luke	I20-EDE: The Energy Dispersive EXAFS beamline at Diamond Light Source
8	I - 8	421	Kinschel	Dominik	Ligand dissociation and recombination of Nitrosyl-myoglobin in physiological media studied by ultrafast X-ray spectroscopy and X-ray Diffuse Scattering
9	I - 9	393	Kong	Qingyu	Microsecond time-resolved XAFS measurements at ODE beamline Synchrotron Soleil
10	I - 10	461	Kroll	Thomas	Stimulated X-ray emission using hard X-rays
11	I - 11	421	Liu	Boyang	C K-edge Selective Probing Ultrafast Surface Chemistry in Catalytic CO Oxidation on Ru (0001)
12	I - 12	537	Naumova	Maria	Structural dynamics of photoinduced charge transfer in a dicopper(I)-disulfide complex
13	I - 13	314	Nozawa	Shunsuke	Ultrafast studies of photoreaction dynamics in artificial photosynthesis systems by time-resolved XAFS
14	I - 14	428	Tyrała	Krzysztof	Determination of two photon absorption cross – sections dependence on the atomic number
MATERIALS SCIENCE AND ENERGY-RELATED MATERIALS					
15	II - 1	354	Acuña	Leandro	In Situ XAS Study of Pr0.6Sr0.4CoO3-d for IT-SOFC Cathode Application
16	II - 2	1	Ali	Ghulam	X-ray Absorption Spectroscopy and In-Situ XRD Studies on the Structure Evolution of SnF2 Anode Material during Sodium Insertion/Extraction Process
17	II - 3	319	Anspoks	Andris	Local structure of A atom in ABO3 perovskites studies by RMC/EA-EXAFS
18	II - 4	67	Asakura	Daisuke	Soft X-ray Absorption and Emission Studies of Rechargeable Battery Electrodes to Clarify the Redox Reactions
19	II - 5	472	Asanov	Igor	XAFS study of fluorides and aminofluorides graphite and few layered graphene
20	II - 6	454	Asanova	Tatyana	In situ observation of formation of bimetallic PdOs nanoalloy during thermal decomposition a single-course precursor [Pd(NH3)4][OsCl6]
21	II - 7	15	Babaee Tooski	Sahib	Biomaterial based toxic gas sensor using microwave resonant cavity
22	II - 8	311	Baster	Dominika	The chemical environment of Mn atoms in spinel-based intercalated electrodes for Li- and Na-ion batteries determined by x-ray absorption and emission spectroscopy
23	II - 9	271	Blasco	Javier	Electronic and local structure of CaBaCo4-xMxO7 (M= Fe, Zn) revealed by X-ray absorption spectroscopy
24	II - 10	402	Bugaev	Aram	Formation of metal nanoparticles inside UiO-67 metal-organic framework by in situ and operando X-ray absorption and diffraction
25	II - 11	173	Bugaev	Lusegen	XAFS study of AgAu nanoparticles formation in glass by UV laser irradiation
26	II - 12	163	Bulat	Natalia	Structure of bimetallic PtCu/C nanocatalysts studied by ASAXS and EXAFS
27	II - 13	517	Canche Tello	Jesus Gonzalo	Structural evolution in lead free perovskite electro-ceramics based on Ba1-xCaxTi0.9Zr0.1O3 by micro-XANES.
28	II - 14	292	Cao	Linlin	XAFS study on Cobalt oxide clusters electrocatalyst for overall water splitting
29	II - 15	512	Castro	Isabel	Metal-organic frameworks as colorimetric magnetic sensors of amine vapors. X-Ray Absorption Studies on the Structural and Chemical Dynamic Transformations.
30	II - 16	287	Che	Wei	XAFS study on the structure and photocatalytic activity of g-C3N4-based in-plane heterostructure
31	II - 17	400	Chen	Jiatang	Tracking the Evolution of Pt-Ni Bimetallic Nanoparticles with X-ray Absorption Spectroscopy
32	II - 18	274	Ciambezi	Matteo	In-situ XAS study of carbon-coated ZnFe2O4 anode material for lithium-ion batteries
33	II - 19	371	Cintins	Arturs	Temperature dependence of bcc iron local environment using x-ray absorption spectroscopy
34	II - 20	169	Cuartero	Vera	X-ray absorption spectroscopy study of CuO at high pressure: the first binary multiferroic at room temperature?
35	II - 21	341	Dacapito	Francesco	Structural characterization of innovative chalcogenide glasses used in Ovonic Threshold Switching selectors
36	II - 22	183	Efimov	Vadim	Study of a spin-state transition in a LaCoO3 single crystal by the method of X-ray magnetic circular dichroism at the cobalt K- and L2,3-edges
37	II - 23	48	Ekwongsa	Chinawat	Temperature dependent local structure of LiCoO2 determined by in-situ Co K-edge X-ray absorption fine structure (EXAFS)
38	II - 24	555	Elbers	Mirko	Temperature dependent study of the local atomic structure of bromine ions in polymerized ionic liquids
39	II - 25	263	Fan	Dongxiao	X-Ray absorption spectroscopy of titanate phosphors
40	II - 26	545	Figueroa	Santiago	In situ XAFS studies in complex hydride Mg-8% mol. Fe
41	II - 27	32	Gautam	Sanjeev	Structural Modifications in Magnetic Multi-walled Carbon Nanotubes by Swift Heavy Ion Irradiations: XAS and XMCD Study
42	II - 28	186	Giorgetti	Marco	XAFS studies on battery materials: data analysis supported by a chemometric approach
43	II - 29	552	Gunnella	Roberto	Disproportionation hindrance of Mn +3 ion due to nanoparticles surface interaction with Alumina coating

Tuesday, 24th July, 2018, 18:00-20:00 **POSTERS LIST**

44	II - 30	563	Gunnella	Roberto	Strain-free structural transition during Li-ion rocking chair battery operation based on LTO anodes
45	II - 31	417	Gupta	Disha	Advanced Structural Characterization of Energy Storage Materials
46	II - 32	553	Hayakawa	Shinjiro	Ti K-edge XAFS investigation of lithium migration in lithium titanium oxide negative electrode under charge/discharge cycles
47	II - 33	556	Hayakawa	Shinjiro	Insertion and electrochemical desorption of iodide onto organo-MnO2 thin film and XAFS characterization
48	II - 34	195	Herrera-Perez	Guillermo	Charge transfer contribution in Rutile-TiO2, perovskite- Ba0.9Ca0.1Ti0.9Zr0.1O3 and monazite-LaVO4 by X-ray absorption and X-ray emission spectroscopies.
49	II - 35	356	Holden	William	New Analytical XES Applications for Phosphorus and Sulfur Speciation
50	II - 36	222	Hu	Fengchun	Atomic and electronic structure of CoOOH nanosheets studied by XAFS
51	II - 37	234	Huang	Li	Atomic structure of Pt-CoOx cluster catalysts for preferential oxidation of CO in H2
52	II - 38	526	Hyatt	Neil	Underpinning the management and disposal of UK radioactive wastes with X-ray absorption spectroscopy
53	II - 39	223	Ikemoto	Hiroyuki	Local structure of tellurium particles synthesized by plasma processing
54	II - 40	228	Ikemoto	Hiroyuki	Phase transition of bismuth nanoparticles
55	II - 41	135	Ismail	Ahmed	Understanding the working mechanism of hematite-based water splitting photoanodes by operando X-ray absorption spectroscopy
56	II - 42	319	Ivanov	Andrei	Amorphous-to-crystalline and fluorite-to-pyrochlore phase transitions in Ln2M2O7 (Ln = Gd, Tb, Dy; M = Ti, Zr): XAFS data analysis
57	II - 43	455	Kathyola	Thokozile A.	Combined EXAFS and X-ray Pair Distribution Function (XPDF) analysis of local structure in calcium carbonates and ferroelectric relaxors
58	II - 44	261	Kato	Seiya	Dielectric properties of BaTiO3 under AC electric field studied by time-resolved X-ray absorption spectroscopy
59	II - 45	526	Kavcic	Matjaz	Sulfur based batteries studied by in-operando S K-edge RIXS and XAS spectroscopy
60	II - 46	388	Kawde	Anurag	HERFD-XANES and vtc-RIXS study of mesoporous TiO2 as an efficient interfacial charge-transporting layer for photo-electrochemical water splitting
61	II - 47	196	Kimijima	Ken'ichi	Development of in situ cell at high temperatures for XAFS/XRD simultaneous measurements
62	II - 48	215	Kintsu	Kohei	Local structure analysis of clusters in Mg-Zn-Y alloys with long period stacking ordered structure
63	II - 49	250	Kirste	Karsten	Bimetallic CoRe in APD silica aerogels for ammonia decomposition.
64	II - 50	230	Kobayashi	Takeshi	Charge-discharge mechanism of NaCoO2 by XAFS measurement
65	II - 51	233	Kobayashi	Takeshi	XAFS measurement of blended electrode materials in lithium-ion battery
66	II - 52	431	Kroner	Anna	Industrial Research on Catalysis using XAS at Diamond Light Source
67	II - 53	1007	Kurnatowska	Michalina	The effect of ytterbium doping on stabilization of reduced palladium species on doped ceria oxide
68	II - 54	321	Lee	Chih-Hao	Determination of the oxide composition of an oxidized Tb0.32Dy0.67Fe1.92 thin film by synchrotron radiation anomalous X-ray scattering
69	II - 55	445	Lee	Chih-Hao	Determination of order parameter of YMn0.5Fe0.5O3 epitaxial film by synchrotron radiation anomalous X-ray scattering
70	II - 56	10	Lee	Ik-Jae	X-ray absorption fine structure investigation of the local structure of SnO2-replaced ZnO films
71	II - 57	123	Li	Weihan	Local and electronic structure study of black phosphorus by XAFS
72	II - 58	413	Li	Weihan	Application of X-ray Absorption Fine Structures in the Study of Advanced Rechargeable Batteries
73	II - 59	414	Li	Weihan	Application of X-ray Absorption Fine Structures in the Study of Advanced Rechargeable Batteries
74	II - 60	33	Limphirat	Wanwisa	Investigation of Crosslinking Structure of Natural Rubber on Curing Process using X-ray Absorption Near Edge Spectroscopy (XANES)
75	II - 61	63	Liu	Chang	The Influence of Subsurface Oxygen on CO Adsorption
76	II - 62	188	Liu	Jing	Controlling Growth of Colloidal Cu doped ZnSe Nanostructures Using Magic Size Clusters
77	II - 63	300	Liu	Wei	XAFS Study on Single-site Active Cobalt-based Photocatalyst
78	II - 64	403	Lomachenko	Kirill	Kinetics of hydrogen desorption from PdH nanoparticles monitored by dispersive X-ray absorption spectroscopy
79	II - 65	418	Lu	Kueih-Tzu	In-situ XANES Investigation of Co(OH)2-based Supercapacitor Electrodes with Remarkable Pseudocapacitance
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57	IX - 42	32	Yingyot	Poo-arporn	The influence of cerium on cobalt compounds in cerium doped cobalt oxide catalysts studied by XANES
58	IX - 43	401	Olga	Safonova	Complexity of CO oxidation mechanisms on ceria-based catalysts uncovered by time-resolved X-ray absorption spectroscopy.
59	IX - 44	219	Andrey	Saraev	CuFeAl-composite catalysts of oxidation of gasification products of solid fuels: In situ study by XAS and XRD
60	IX - 45	594	Ritimukta	Sarangi	Homogeneous Catalysis at SSRL: From Biology to Energy Materials
61	IX - 46	225	Takruo	Sasaki	Study on the effect of the interfacial structure of supported NiO nanocluster catalysts to 1-phenylethanol oxidation reaction
62	IX - 47	346	Roland	Schoch	XAS under real conditions: Two in-situ cells and their applications in homogeneous and heterogeneous catalysis
63	IX - 48	153	Emma	Shmatko	Probing the Role of a Non-Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane
64	IX - 49	324	Alina	Skorynina	Evolution of carbide phase in palladium nanoparticles exposed to acetylene and ethylene by X-ray absorption and diffraction
65	IX - 50	99	Yun-Liang	Soo	Studies of cation reduction and catalytic activity enhancement in x-ray and UV-light irradiated CeO2 nanocrystal catalysts using XANES
66	IX - 51	29	Franklin (Feng)	Tao	Application of XAS to studies of single atom catalysis and design of EXAFS catalysis reactor
67	IX - 52	245	AKHIL	TAYAL	Local Geometry and Electronic Properties of Nickel Nanoparticles Prepared via Thermal Decomposition of Ni-MOF-74
68	IX - 53	346	George	Tierney	Investigating the Influence of Solvent Protocols in Ultra-Dilute Colloidal Au: A XAFS Study.
69	IX - 54	12	Janis	Timoshenko	Learning the nanocatalyst structure “on the fly” using neural networks
70	IX - 55	349	Tomoki	Uchiyama	in situ XAS study of Pt catalyst in MEA for Polymer Electrolyte Fuel Cells
71	IX - 56	140	Takashi	Ukawa	XAFS Analysis on Reduction Process of Copper(II) Oxide Supported on Ceria and Silica
72	IX - 57	329	Oleg	Usoltsev	Discrimination of surface and bulk carbide by combined EXAFS and XANES analysis
73	IX - 58	131	Bas	Venderbosch	Spectroscopic investigation of the activation of a chromium pyrrolyl ethene trimerization catalyst
74	IX - 59	88	Jianqiang	Wang	XAFS Characterization of Industrial Catalysts: Cu-ZnOx/SiO2 Catalyst for ester hydrogenolysis
75	IX - 60	307	Edmund	Welter	An international initiative for a Round Robin test of XAFS experiments
76	IX - 61	268	Ruoou	Yang	Characterization CoMn catalyst by in situ X-ray absorption spectroscopy for Fischer−Tropsch to Olefins Reaction
77	IX - 62	247	Anna	Zimina	XAS study of structure-activity relationships in CuO/ZnO catalysts at the CAT-ACT beamline at KIT

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80	X - 3	532	Iciar	Arnay	Influence of the evaporation temperature on the structural properties of epitaxial Fe3O4 films evaporated on SrTiO3/Si
81	X - 4	83	Kyoko	Bando	Structural Analysis of Tb doped Alumina during a Preparation Process by Combined in situ XAFS and XRD
82	X - 5	113	Jau-Wern	Chiou	Investigate the electronic structure of HfO2 thin films prepared by ALD method
83	X - 6	80	Keitaro	Eguchi	Magnetic properties of magnetic ionic liquid thin films prepared on Cu(001) and ferromagnetic Co/Cu(001)
84	X - 7	322	Yves	Kayser	Applications of reference-free X-ray spectrometry towards the development of 3D heterogeneous integration technology
85	X - 8	197	Eiichi	Kobayashi	Study of defect induced by hydrogen reduction in MgO single crystal by NEXAFS
86	X - 9	535	Jerzy	Kubacki	hydroxyapatite layer deposition after photofunctionalization titanium dioxide substrate
87	X - 10	262	Manvendra	Kumar	Magnetic properties and local structural investigation of MgO/Co/MgO trilayer in presence of oxygen migrated interface
88	X - 11	365	Salvatore	Macis	Thin and ultrathin conducting MoO3 films on copper for technological application: a XAS study of electronic and structural properties
89	X - 12	299	Sven	Schroeder	Ambient Pressure Gas-Flow Total Electron-Yield Cell for Operando XAFS Studies of Liquid Jets with Soft and Tender X-rays
90	X - 13	512	Aida	Serrano Rubio	Stabilization of epitaxial α-Fe2O3 thin films grown by pulsed laser deposition on oxide substrates
91	X - 14	119	Nidhi	Tiwari	Depth dependent structural probing of magnetic multilayers by Grazing Incidence XAFS study at Indus-2 SRS .
92	X - 15	534	Nicolas	Trcera	Investigation of the MgO thin film growth on Ag(100) on LUCIA beamline
93	X - 16	61	Ashok Kumar	Yadav	Local structure investigation of transition metal doped ZnO and TiO2 thin films by X-ray absorption spectroscopy
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94	XI - 1	435	Olga	Bakieva	Local atomic structure of the Fe surface modified of O+ and Ar+ ions
95	XI - 2	446	Olga	Bakieva	A study of the local atomic structure of the ion-modified carbon film formed by magnetron sputtering on Fe surface
96	XI - 3	583	Izabela	Biało	The charge distribution in high-Tc superconductors studied by X-ray absorption spectroscopy
97	XI - 4	484	Roberto	Boada	Unravelling the microscopic details of the “gate-opening” in ZIF-8 upon gas adsorption.
98	XI - 5	248	Delphine	Cabaret	Quantum thermal effects of the Al K-edge X-ray Raman Spectrum in -Al2O3
99	XI - 6	313	Emmanuelle	de Clermont Gallerande	Oxygen environment in lithium borates and silicates: an X-ray Raman Spectroscopic study
100	XI - 7	313	Iraida N.	Demchenko	Resonant photoelectron spectroscopy at the Yb N5 absorption edge in ZnO:Yb
101	XI - 8	28	Boris	Gabrelian	S K XANES edges and electron energy structure of Tl3TaS4
102	XI - 9	413	Jurij	Galanzew	Electronic Structure Studies of Th Systems using X-ray and theoretical Methods
103	XI - 10	177	Andrey	Geondzhian	Green’s function approach to vibrational contributions in X-ray spectroscopy
104	XI - 11	105	Mahnaz	Ghiasi	Core-level photoemission study of 3d transition metal oxides with multiplet and LDA+DMFT approaches
105	XI - 12	117	Atsushi	Higashiya	Electronic Structures of Layered Oxychalcogenides BiOCuCh (Ch = Se and Te) Studied by Photoemission Spectroscopy
106	XI - 13	345	Luke	Higgins	X-Ray Raman Spectroscopy of Hydrothermally Processed Biofuel at APS and ESRF
107	XI - 14	473	Sy Minh Tuan	Hoang	The Pixe/Pige Facility of the 2-MV KIST Tandem Ion Accelerator: Design and Simulation
108	XI - 15	499	Philipp	Hoenicke	Sample cell for soft X-ray absorption spectrometry in liquid environments
109	XI - 16	30	Shang-Hsien	Hsieh	Role of electronic and atomic properties in an XY-like spin-glass system Ni0.4Mn0.6TiO3
110	XI - 17	500	Krystyna	Jablonska	Study of the local atomic order in the amorphous TaxOy thin films
111	XI - 18	281	Sadaf	Jethva	Electronic Structure studies on Ca-doped BiFeO3 Multiferroic films using X-ray Absorption Spectroscopy
112	XI - 19	294	Savan	Katba	X-ray Absorption Spectroscopy study for understanding the dielectric behaviour of ErFeO3 orthoferrites
113	XI - 20	456	Jonas	Kläs	In-situ EXAFS investigations of Nitrogen doped Niobium
114	XI - 21	304	Pavlo	Konstantynov	XRD investigations combined with molecular dynamics simulations to interpret X-ray absorption spectra
115	XI - 22	592	Aldona	Kubala-Kukuś	Total reflection X-ray photoelectron spectroscopy of Ti and TiO2 nanolayers implanted by Xeq+ ions
116	XI - 23	368	Kaori	Niki	XANES analysis for cation-vacancy distribution induced by doping Al ions in transition-metal-oxide anodes of lithium battery.
117	XI - 24	424	Takamasa	Nonaka	In situ X-ray Raman scattering spectroscopy of a negative electrode for Li-ion batteries
118	XI - 25	427	Bronislaw	Orlowski	Samarium ions on semiconductor surface, interface and in volume by Fano resonance photoemission
119	XI - 26	497	Nicolas	Pilet	Hybrid Photon Counting takes X-ray spectroscopy to the next level
120	XI - 27	462	Hitoshi	Sato	Cu 2p-1s x-ray emission spectroscopy of mineral tetrahedrite Cu12Sb4S13
121	XI - 28	2	Vijay Raj	Singh	Irreversible metal-insulator transition in thin film VO2 induced by soft X-ray irradiation

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125	XI - 32	560	Bartosz	Wilk	Electronic and crystallographic structure of (EuxBi1-x)2Te3 thin films
126	XI - 33	476	Galina	Yalovega	The influence of the temperature of thermostating on the electronic structure of PANI / Cu composites
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129	XII - 2	202	Hiroyuki	Asakura	xTunes: a new XAS processing tool for detailed and on-the-fly analysis
130	XII - 3	540	Dmitry	Bocharov	Validation of ab initio molecular dynamics simulations of ZnO using the Zn K-edge EXAFS spectra
131	XII - 4	114	Christopher	Chantler	Helping to set standards for high quality XAFS: Q2XAFS, Round Robin, International Tables for Crystallography I
132	XII - 5	433	Tao	Chen	Extracting Lifetime-Broadening-Reduced XANES Spectroscopy by Hilbert Transform
133	XII - 6	440	Giannantonio	Cibin	Towards an open access, integrated XAS data repository at Diamond Light Source.
134	XII - 7	329	Emmanuelle	de Clermont Gallerande	DFT modelling of X-ray Raman Spectroscopy: applications to lithium model compounds
135	XII - 8	150	Federica	Frati	Coupled cluster study of the near-edge absorption fine structure spectra of small molecules containing carbon and oxygen up to the ionization limit.
136	XII - 9	288	Sergey	Guda	Ways to apply the machine learning to the analysis of local atomic structure based on XANES spectra
137	XII - 10	587	Hieu	Ho	High-order EXAFS cumulants and their contributions in EXAFS spectra
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140	XII - 13	243	Akihro	Koide	Effects of spin-orbit interaction in photoelectron scattering process for magnetic EXAFS
141	XII - 14	280	Patrick	Mueller	Experimental and Theoretical High Energy Resolution X-Ray Absorption Spectroscopy
142	XII - 15	549	Matthew	Newville	Recent Advances in XAFS Analysis with Larch
143	XII - 16	71	Pattarapong	Nijapai	Molecular Dynamic Simulation studies of Manganese Lithium Borate-Based Glasses
144	XII - 17	295	Marius	Retegan	Crispy: a Modern User Interface for Simulating Core-Level Spectra
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146	XII - 19	14	Ondrej	Sipr	Broadening calculated XANES by introducing complex energy: understanding the risks
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149	XIII - 2	125	D.	Bhattacharyya	Development of in-situ EXAFS facilities to probe structural changes during growth of nanoparticles and hetergenous catalysis at Indus-2 SRS, INDIA.
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153	XIII - 6	547	Roman	Chernikov	Biological X-Ray Absorption Spectroscopy beamlines at the Canadian Light Source
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155	XIII - 8	320	francesco	dacapito	LISA: the Italian CRG beamline at ESRF
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160	XIII - 13	448	Chris	Glover	Commissioning and performance of a fast scanning cryocooled DCM at the Australian Synchrotron
161	XIII - 14	557	Richard	Gnewkow	A high performance HAPG ring optic for X-ray Emission Spectroscopy
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167	XIII - 20	196	Aleksandr	Kalinko	New von Hamos-type spectrometer at PETRA III P64 beamline
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172	XIII - 25	303	Wolfgang	Malzer	A laboratory spectrometer for high throughput XES in catalysis research
173	XIII - 26	483	Victoria	Mazalova	Frontiers in Attosecond X-ray Science: Imaging and Spectroscopy (AXSIS)
174	XIII - 27	318	Margarita	Merkulova	New hard X-ray crystal analyzer spectrometer for X-ray absorption and emission measurements on a micro scale.
175	XIII - 28	360	Lindsay R.	Merte	Endstation development for heterogeneous catalysis research at the Balder beamline at MAX IV
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177	XIII - 30	350	Ewa	Partyka-Jankowska	XMCD beamline at SOLARIS synchrotron
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180	XIII - 33	170	Bruce	Ravel	The Beamline for Materials Measurement at NSLS-II
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182	XIII - 35	567	Meike	Schellhorn	A XANES Tabletop Spectrometer for the Soft X-ray Region
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190	XIV - 3	344	Sin Yuen	Chang	A versatile liquid (liquid-macrojet and droplet) cell for operando monitoring of multiphase systems using XAS: design considerations and advantages
191	XIV - 4	42	THANUN	CHUNJAEMSRI	Synchrotron-based NEXAFS Analysis of Diamond-Like Carbon Films
192	XIV - 5	390	Diego	Gianolio	Exploring the capabilities of a graphite dispersive spectrometer in von Hamos geometry
193	XIV - 6	228	Ana	Guilherme Buzanich	TXRF-XANES: a unique experimental setup for chemical speciation of traces down to pg range.
194	XIV - 7	52	Misaki	Katayama	Development of Dispersive XAFS System for Simultaneous Measurement at Two Absorption Edges
195	XIV - 8	102	Andrea	Martini	Multivariate analysis of in situ XAS to determine Cu-speciation in zeolite catalysts
196	XIV - 9	358	Yimin	Mijiti	Structure and melting/crystallization dynamics under high pressure and high temperature conditions by x-ray absorption spectroscopy
197	XIV - 10	75	Yasuji	Muramatsu	Total-electron-yield measurements of insulating bulk materials by soft X-ray irradiation
198	XIV - 11	238	Toshihiro	Okajima	XAFS spectrum from X-ray fluorescent Kβ line
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200	XV - 1	279	Yakub	Fam	Designing a user platform for in situ 2D & 3D X-ray ptychography at DESY-P06
201	XV - 2	458	Stefan	Mangold	Full field transmission spectroscopy as tool for screening of large and non-uniform samples shown for environmental science
202	XV - 3	141	Bećo	Pehlivanović	Patient Dose Estimation in Computed Tomography Diagnosis in Una-Sana and Tuzla Canton, Bosnia and Herzegovina
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204	XVI - 2	527	Maxim	Boyanov	The utility of EXAFS in discovering novel species relevant to U mobility in reducing environments
205	XVI - 3	411	Gaëlle	CREFF	Actinides speciation in phosvitin protein and in Dogfish Scyliorhinus Canicula egg yolk
206	XVI - 4	474	Sy Minh Tuan	Hoang	Calculation of DPA in the Reactor Pressure Vessel of VVER-1000/V320
207	XVI - 5	284	Yuying	Huang	HERFD-XANES study of crystal-field split of 6d orbits of ThO2
208	XVI - 6	382	Myrtille O.J.Y.	Hunault	Title: Local structure around cations in glasses: how worth increasing the EXAFS k-range?
209	XVI - 7	36	Brendan	Kennedy	In-Situ studies of phase transformations in Uranium Oxides
210	XVI - 8	137	Pier Lorenzo	Solari	Advances on the MARS beamline at Synchrotron SOLEIL
211	XVI - 9	5	Linjuan	Zhang	Coordination Structure of Uranium Complexes in disordered Systems using X-ray Absorption Fine Structure Spectroscopy

PRACTICAL INFORMATION

Conference Venue

The International Conference on X-Ray Absorption Fine Structures XAFS 2018 will be held in Kraków, Poland on 22-27 July 2018.

Auditorium Maximum

This is a modern lecture theatre complex, officially opened in 2005. The main hall can be divided into two smaller ones for 600 persons each. Moreover, there are one lecture room for 250 persons, two for 150 persons, and one for 100 persons, as well as the necessary catering and sanitary facilities.

Jagiellonian University – Auditorium Maximum

Krupnicza 33, Kraków

Congress Registration opening hours

22.07 (Sunday) 8:00-21:00
23.07 (Monday) 8:00-18:00
24.07 (Tuesday) 8:00-12:00; 17:00-20:00
25.07 (Wednesday) 8:00-18:00
26.07 (Thursday) 8:00-20:00
27.07 (Friday) 8:00-14:00

Certificates of attendance

Certificates of attendance will be sent by email after the conference.

Conference language

Official conference language is English.

Coffee breaks and lunches

Coffee breaks and lunches are included in registration fee. Catering area is located on LEVEL -1.

Internet

Dedicated Wi-Fi is available in the whole venue.
SSID: **UJ_WiFi** login: **maximumwifi@uj.edu.pl** password: **xafs2018@KRAKOW**

Public transportation:

Public transportation (trams and buses in Kraków) for XAFS 2018 participants is free of charge from 22.07 till 27.07.2018.
You will receive hologram during registration, that must be stick on the badge. Remember, that only badge with hologram entitles you to use free public transportation.
The current timetable is available at: http://rozklady.mpk.krakow.pl
We recommend using the website: https://jakdojade.pl/krakow

Taxis

In order to avoid unpleasant surprises, we recommend only using licensed taxi companies. Such taxi should have a visible price-list, a taximeter and a company logo with a phone number.
Taxis can be ordered by phone, some of them online or at a taxicab stand.
You will pay approx 7.00 zloty (1.80 euro) upfront charge and 2.80 zloty (0.60 euro) for every subsequent kilometre (week day, day-time fare, zone 1).

Bike

Kraków is a great place to explore by bike. It can help to avoid rush hours and to explore streets and shortcuts unavailable to drivers.

Public bike system Wavelo: you have to register online beforehand and prepay. Depending on the option you choose, you will get up to 90 minutes a day included in the fee. Bike stands are situated around the city centre and you do not have to return your bike to the same spot you collected it from.

On foot

Kraków is perfect for exploring on foot. Most city highlights, such as Wawel Royal Castle or St. Mary's Basilica, are situated close to one another, in the historical centre where pedestrian zones make walking friendly and safe.

PRACTICAL INFORMATION

Accessible Kraków

The city centre, including the Main Square is covered with flagstone or asphalt alleys (Planty Gardens), therefore disabled guests should not have problems exploring the city. Nevertheless, some of the narrow, cobblestoned streets and high kerbs can cause difficulties. Many shops and cafes around the Main Square have at least one step. Modern public transport vehicles are modified to meet the needs of disabled passengers.

Touching Kraków

Almost all the biggest museums offer audioguides. There are also twelve 3D models of the most popular historical buildings situated along the Royal Route (incl. the Barbican, St. Mary's Basilica or Cloth Hall 'Sukiennice'). Each model has English and Polish braille descriptions. Tourist maps for visually impaired guests can be collected from Tourist Information offices.

Foreign Consulates in Kraków

List of foreign consulates and institutions in Kraków: http://www.Kraków.pl/Kraków_open_city/12590,artykul,consulates.html

Electricity

Electric power is 230 volts, 50 hertz alternating current. Outlets take plugs with two round pins. In any case, please take adaptors for different plug types with you. Please make sure that the electrical devices you will be using (computers, mobile phone chargers, electric shavers, etc.) are suitable for this voltage, otherwise transformers or batteries are advisable.

Local currency

The official currency of Poland is the Zloty (PLN). The exchange rate is approximately 1 EUR to 4.20 PLN (1 USD to 3.60 PLN). Banks are open from Monday to Friday from 09:00/10:00 to 18:00. Exchange offices can be found all around Kraków, and are clearly marked. ATMs are widely available around the city and shops accept major credit cards.

Local time

Local time in Kraków: summer time DST; UTC +2 (CEST)

Official language

Official language is Polish.
English is widely spoken.

Weather

In July, Kraków enjoys pleasant days and warm nights. The average maximum temperature range between 19 to 25 ºC while the average minimum is 12 ºC. You should prepare for the rain too.

First Aid

A first aid service will be available at the Auditorium Maximum at all times during the congress. Please note, however, no other medical service will be provided. Participants are expected to cover the costs of any medical expenses incurred in Poland. Therefore, it is highly recommended that participants have an insurance policy covering medical expenses in Poland and elsewhere during their travel.
EU citizens should carry the European Health Insurance Card.
Participants requesting an entry visa will also be required to submit proof of medical insurance.

Medical services

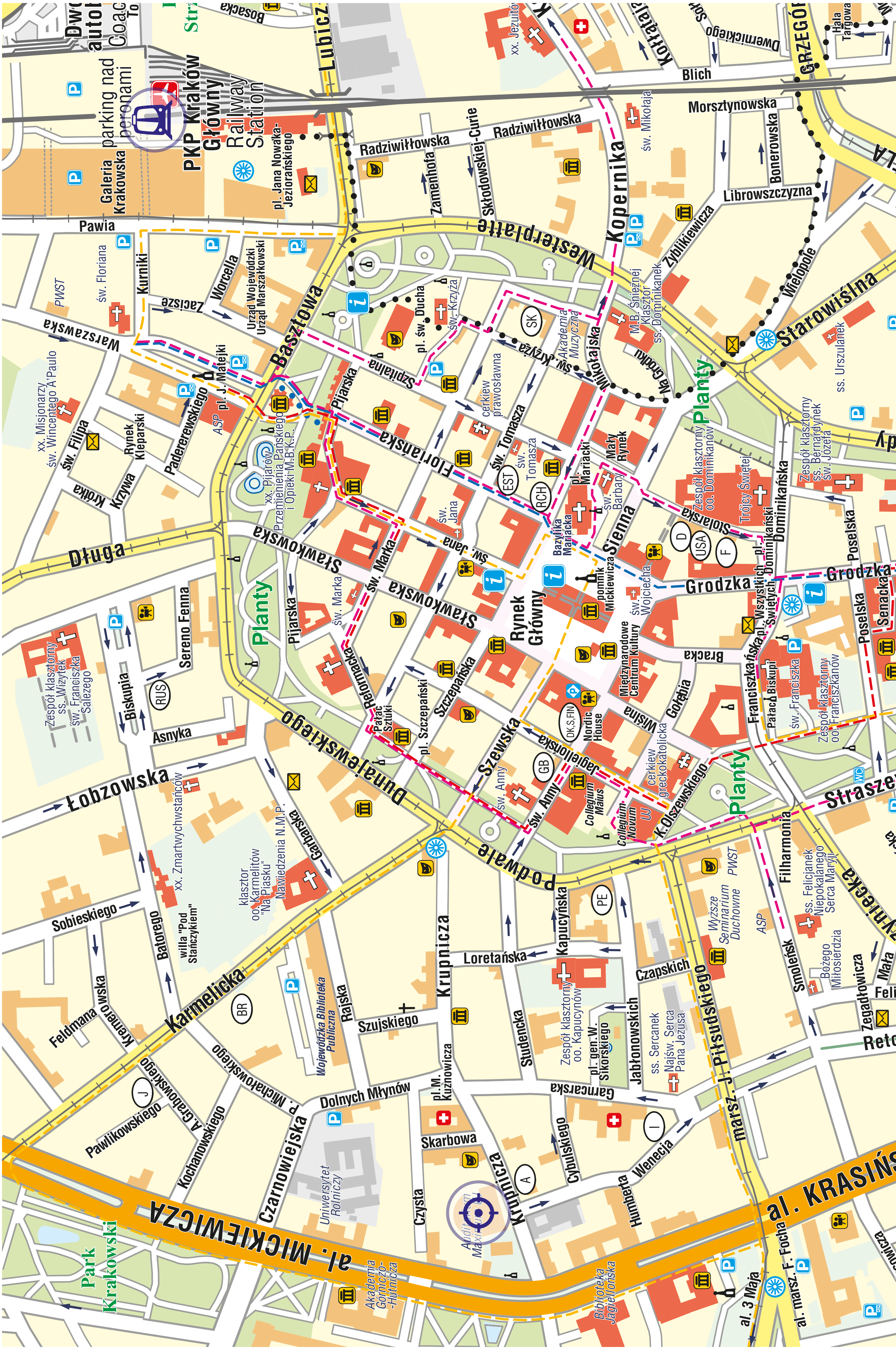
Kraków has a good network of health centres (primary care services) and hospitals.
In the case of an emergency, injury, sudden disease or health deterioration, patients should either call an ambulance or go directly to a hospital, to the A&E department. In such cases, medical transport is free of charge. In hospital, you must present your valid European Health Insurance Card or a replacement certificate or insurance.

Emergency service phone numbers

112 – General emergency number – dial without any area code
997 – Police
998 – Fire Brigade
999 – Ambulance

note: Emergency calls are toll-free

Map of Kraków




Legend:
Auditorium Maximum
Stara Zajezdnia Kraków
Kraków Główny - Train Station
Kraków
Wawel
Krakowska
Stradomska
Dietla
Starowiślna
Konopnickiej
Monte Cassino
rondo Grunwaldzkie
most Grunwaldzki
most Dębnicki
Wisła
Bulwar Czerwieński
Bulwar Inflancki
Bulwar Wołyński
Bulwar Poleski
Muzeum Sztuki i Techniki Japońskiej Manggha
Rynek Dębnicki
Gazownia Krakowska
Zakład Gazowniczy
kładka pieszo-rowerowa

SOCIAL PROGRAMME

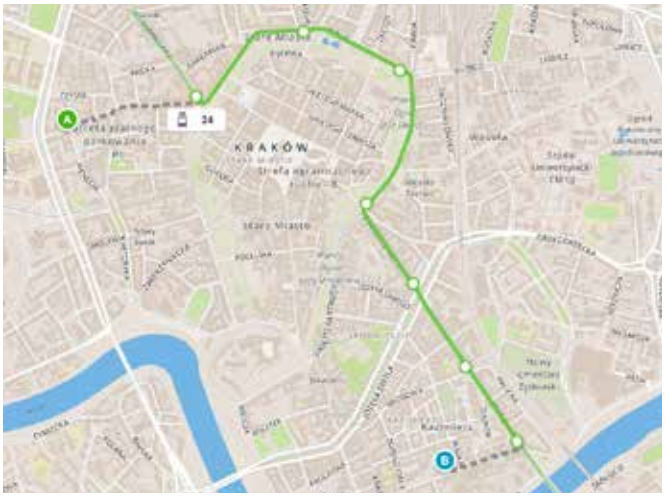
CONFERENCE DINNER IN STARA ZAJEZDNIA

DATE: 25.07.2018 (WEDNESDAY)
HOURS: 19:00-23:00
ADDRESS: ŚWIĘTEGO WAWRZYŃCA 12, KRAKÓW

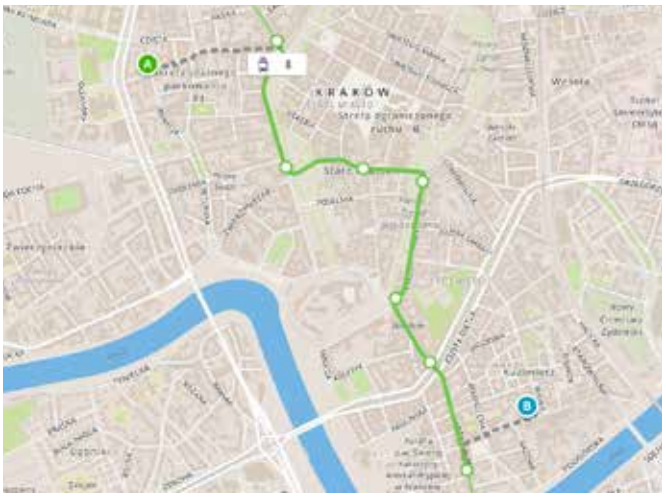
Stara Zajezdnia is a place that combines history with modernity. There is a beer hall with a local brewery, restaurant and courtyard. The renovated building of the Stara Zajezdnia is a unique object. The hall is a rare example of a wooden Krakow arch framing with brick filling, commonly called "Prussian wall". The main hall is one of the architectural team-building, covered by legal protection - included on the register of historic monuments in 1985 and on the UNESCO World Cultural and Natural Heritage, which is considered a historical monument.

How to get there by public transportation:
(Do not forget that public transportation for XAFS 2018 participants is for free. You must have only your badge with hologram)

Option 1
Tram 24
First stop – Bus stop Teatr Bagatela 3t
Direction Kurdwanów P+R
Last stop – Św. Wawrzyńca 1t + 390m on foot



Option 2
Tram 8
First stop – Bus stop Teatr Bagatela 3t
Direction – Borek Fałęcki
Last stop – Plac Wolnica 1t + 520m on foot



SOCIAL PROGRAMME

WIELICZKA SALT MINE

DATE: 24.07.2018 (TUESDAY)
HOURS: 11:20-18:00
MEETING POINT: MAIN FOYER OF JAGIELLONIAN UNIVERSITY, AUDITORIUM MAXIMUM (33 KRUPNICZA ST, KRAKÓW)

Sightseeing of Wieliczka Salt Mine with the English speaking local guide – a world class tourist attraction and UNESCO site – which will definitely be an unforgettable underground experience. Over 700-year-old, this monument of history has been created by many generations of Polish miners. You can see up to 20 excavated chambers on 3 levels: the main one is located 130 meters below the ground level. Exceptional in its beauty, with the rich interior decoration of the chapels – including the most beautiful of Blessed Kinga, the original linings of the galleries and workings, and the underground salt lakes. Chambers are decorated with beautiful statues sculpted in salt.

SOCIAL PROGRAMME

PIESKOWA SKAŁA CASTLE

DATE: 24.07.2018 (TUESDAY)
HOURS: 11:20-18:00
MEETING POINT: MAIN FOYER OF JAGIELLONIAN UNIVERSITY, AUDITORIUM MAXIMUM (33 KRUPNICZA ST, KRAKÓW)

The Pieskowa Skała Castle is located in the Ojców National Park, set in an old forest, on a limestone cliff over the Prądnik River Valley. Together with the magnificent rock formation Maczuga Herkulesa (Hercules' Club) stands close nearby create some of the most iconic and unique views within Ojców National Park. It is one of the major tourist attractions of the Cracow area.
Its chambers, colonnades and courtyard reflect the style of the Italian Renaissance. The museum has a large collection of fine old furniture and interior decoration details. This well-preserved castle was most significantly updated in the 16th century when the original medieval tower was transformed into a beautiful two-level loggia (an arcaded open-air balcony) embellished with sgraffito wall decorations, a taller steepled tower with a large clock-face was added alongside it, and the courtyard was arcaded in north-Italian style.

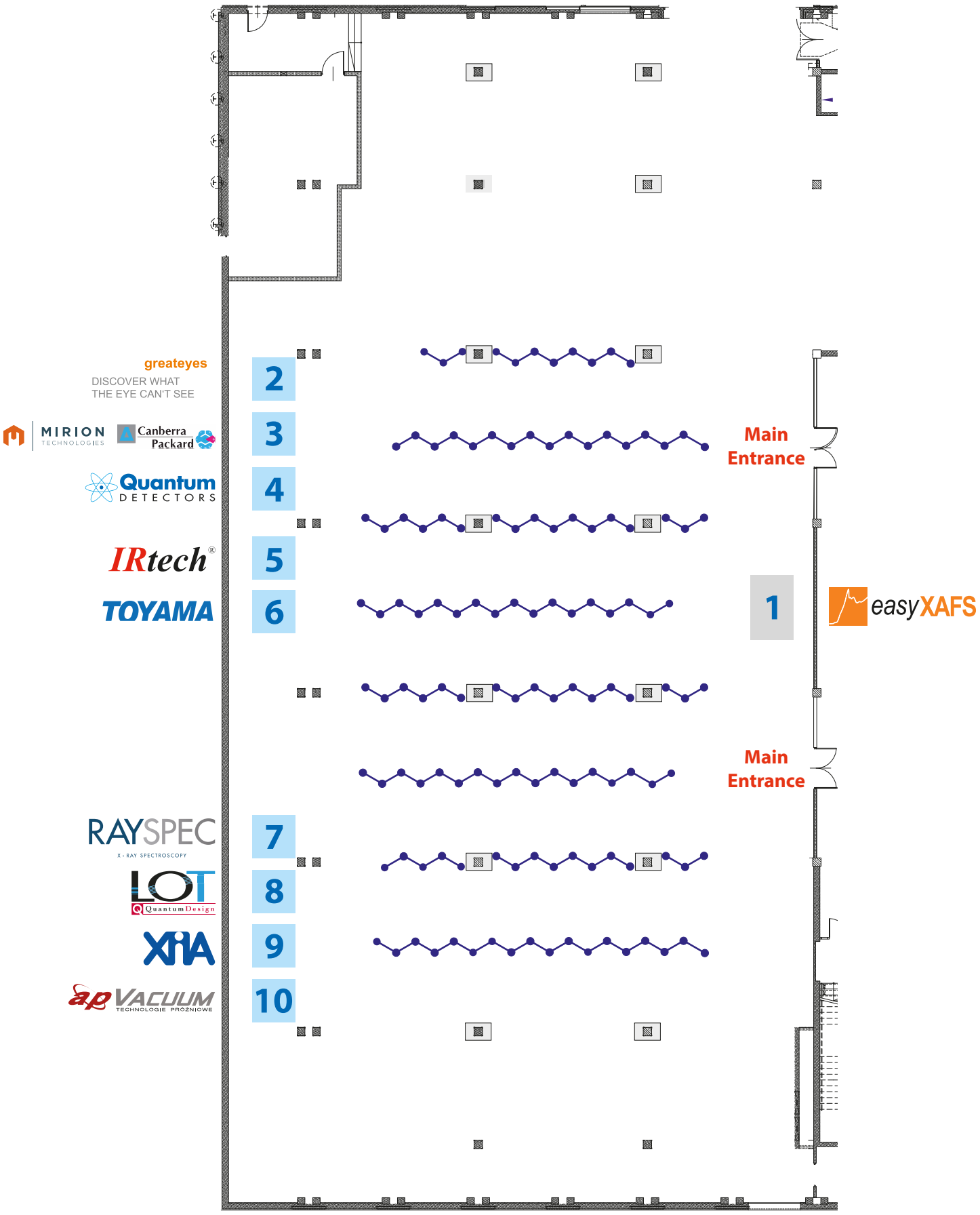
KRAKÓW WALKING TOUR

DATE: 26.07.2018 (THURSDAY)
HOURS: 9:00-11:30
MEETING POINT: MAIN FOYER OF JAGIELLONIAN UNIVERSITY,AUDITORIUM MAXIMUM (33 KRUPNICZA ST, KRAKÓW)

See all the highlights of the Old Town area that made Cracow so famous:

- The spectacular Main Market Square with the Renaissance Cloth Hall – a perfect place to buy local souvenirs, the Town Hall Tower and St Mary's Basilica with unique wooden masterpiece of Veit Stoss.
- Wawel Hill that is dominated by the Cathedral, the Castle and the defense towers .
- The buildings of Poland's oldest university, Jagiellonian University, where Nicolaus Copernicus studied.

LIST OF EXHIBITORS



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Company IRtech was established in 2003 and is delivering unusual solutions for chemical analysis as well as for material imaging in nanoscale. Big part in our portfolio are products based on Xray radiation. Our offer includes:

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LOT-QuantumDesign group is a leading European distributor of high-quality scientific instruments and components supplying academic and industrial scientific research customers. The group offers components and systems used in material sciences, imaging, spectroscopy, photonics, nanotechnology and life science research. The group was founded almost 45 years ago and now employs more than highly-qualified 140 staff across Europe. The headquarters are in Darmstadt, Germany, further offices are located in Paris. London. Rome and Lausanne. Together with the parent company Quantum Design International Inc. and sister companies in North America. Asia and South America LOT· QuantumDesign offers the only global distribution network for high-tech instrument.

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International Union of Crystallography

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"The IUCr is an International Scientific Union. Its objectives are to promote international cooperation in crystallography and to contribute to all aspects of crystallography, to promote international publication of crystallographic research, to facilitate standardization of methods, units, nomenclatures and symbols, and to form a focus for the relations of crystallography to other sciences."

CITY OF KRAKÓW

Kraków

(Latin: Cracovia, French: Cracovie, German: Krakau, Jidish: עקאָרק, “Kroke”, also Cracow or Kraków)

Kraków is a city with surface rights, located in southern Poland on the Vistula river, as the second largest city in Poland both with reard to the population and surface area. It is a former capital of Poland, Royal Capital City and necropolis of Polish kings, as well as the capital of Małopolska Region. The ancient, royal city of Kraków is a unique symbol of Polish national identity. Enchantingly picturesque, rich in relics of all epochs, it represents the thousand-year-long history of the Polish nation.

In Kraków you can admire many different styles of architecture, unique Romanesque objects, monumental Gothic edifices, and masterpieces by some of the most outstanding architects of the Renaissance and Baroque period. Kraków has always been a centre of Polish culture and science.

Kraków is one of the best recognizable cities in this part of Europe, a favourite destination of individual and group trips. The city attracts visitors with its legend: a treasure trove of Polish heritage, European Capital of Culture, City of Literature UNESCO, a city full of events and unique collections, an organizer of excellent festivals. Currently, Kraków is the artistic and intellectual centre of southern Poland, and one of the most popular tourist spot in Europe. Kraków’s main Market Square – the largest mediaeval square in Europe (200x200 meters) – has always been the heart of the city, vibrant with life throughout the year. It is a favorite meeting place for Cracovians, students, tourist, and businesspeople. The 47 tenement buildings surrounding the square house numerous cafés, restaurants, pubs, galleries, shops, bookstores, and museums. Wawel and the Kraków Old Town, alongside old Jewish district Kazimierz, were selected for the original UNESCO World Heritage List, created in 1978. Other locations include the Salt Mine in Wieliczka, the oldest active salt mine in the world, located 12 kilometers south of Kraków.

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http://www.synchrotron.org.pl

Składki członkowskie dla członków zwyczajnych:
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Zawiadomienie
Walne Zebranie Polskiego Towarzystwa Promieniowania Synchrotronowego

Serdecznie zapraszamy Państwa na Walne Zebranie sprawozdawcze PTPS, które odbędzie się w trakcie 17 International Conference on X-ray Absorption Fine Structure (XAFS2018) dnia 26 lipca 2018 roku o godz. 13.15 w Audytorium Maximum Uniwersytetu Jagiellońskiego, ul. Krupnicza 33, 31-123 Kraków.

Sekretarz PTPS A. Witkowska

Prezes PTPS W. M. Kwiatek

Porządek obrad:

1. Powitanie uczestników i przyjęcie porządku obrad
2. Wybór protokolanta
3. Sprawy osobowe
4. Sprawozdanie merytoryczne z działalności Zarządu PTPS za okres XI 2017 – VI 2018
5. Sprawozdanie finansowe Zarządu PTPS
6. Sprawozdanie Komisji Rewizyjnej PTPS
7. Dyskusja nad sprawozdaniami i głosowanie nad ich przyjęciem
8. Informacja o planach dalszej działalności Towarzystwa na rok 2018-2019
9. Podjęcie Uchwały w sprawie organizacji konferencji ISSRNS 2019
10. Wręczenie nagród PTPS
11. Sprawy bieżące
12. Wolne wnioski

	Sunday 22.07.2018	Monday 23.07.2018	Tuesday 24.07.2018	Wednesday 25.07.2018	Thursday 26.07.2018	Friday 27.07.2018
07.45-09.00		Registration	Registration	Registration	Registration	Registration
09.00-09.30	Registration / Workshops	Plenary session	Plenary session	Plenary session	Kraków Walking Tour	Plenary session
09.30-10.00						
10.00-10.30						
10.30-11.00				Coffee break		
11.00-11.30		Coffee break			Coffee break	
11.30-12.00		Parallel sessions	Excursions (optional)	Parallel sessions	Parallel sessions	Plenary session
12.00-12.30						
12.30-13.00						Summary remarks
13.00-13.30		Lunch/Exhibition		Lunch/Exhibition	Lunch/Exhibition	
13.30-14.00						
14.00-14.30						SOLARIS tour
14.30-15.00		Parallel sessions		Parallel sessions	Parallel sessions	
15.00-15.30						
15.30-16.00						
16.00-16.30		Coffee break		Coffee break	Coffee break	
16.30-17.00		Parallel sessions		Parallel sessions	Parallel sessions	
17.00-17.30	Opening					
17.30-18.00	Plenary Session					
18.00-18.30		SOLARIS tour	Poster Session I		Poster Session II	
18.30-19.00						
19.00-19.30	Welcome Party			Conference Dinner – Stara Zajezdnia		
19.30-20.00						
20.00-20.30						
20.30-21.00						
21.00-21.30						
21.30-22.00						
22.00-22.30						
22.30-23.00						