Karlsruhe Institute of Technology

HELMHOLTZ GEMEINSCHAFT

Program

16th International Conference on X-ray Absorption Fine Structure
XAFS16 KARLSRUHE2015

XAFS16

16th International Conference on X-ray Absorption Fine Structure

23–28 August 2015, Karlsruhe | ITCP/ANKA/INE

KIT – University of the State of Baden-Wuerttemberg and
National Research Center of the Helmholtz Association

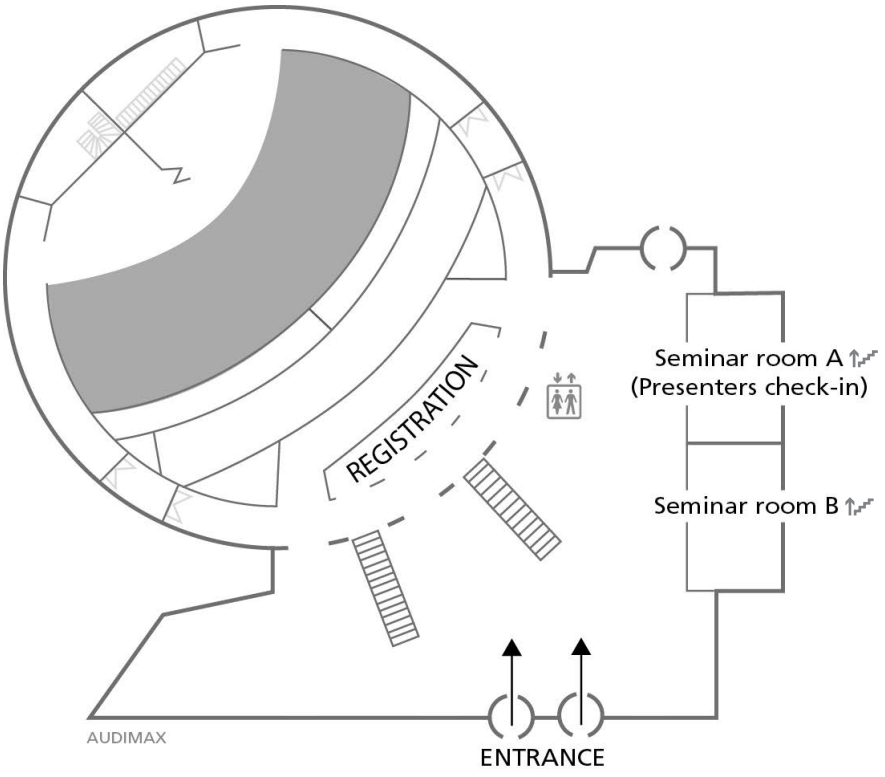
www.kit.edu

Conference program overview | UTC + 01:00 Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna

Sunday **23 August 2015** **16:00–20:00**	16:00–19:00 Registration 18:00–20:00 Welcome party
Monday **24 August 2015** **07:30–19:30**	07:30 Registration 08:30–10:10 Plenary session: welcome | general announcements | plenary talk 10:10 Coffee break, after parallel sessions 10:40–17:40 Parallel session, lunch & coffee breaks 18:00–19:30 1st poster session (with refreshments)
Tuesday **25 August 2015** **08:30–19:30**	08:30–10:10 Plenary session: plenary talks | conference picture | general announcements 10:10 Coffee break, after parallel sessions 10:40–17:40 Parallel sessions, lunch & coffee breaks 18:00–19:30 2nd poster session (with refreshments)
Wednesday **26 August 2015** **08:30–19:10**	08:30–10:10 Plenary session: plenary talks | IXAS & CXAFS/IUCr presentations 10:10 Coffee break, after parallel sessions 10:40–12:40 Parallel sessions after lunch: excursions 14:00–19:10 h
Thursday **27 August 2015** **08:30–23:00**	08:30–10:00 Plenary session: plenary talks / general announcements 10:00 Coffee break, after parallel sessions 10:20–17:00 Parallel sessions, lunch & coffee breaks 18:00–19:00 Center for Art and Media (ZKM) guided tour 19:00–23:00 Conference banquet at ZKM
Friday **28 August 20150** **08:30–18:00**	08:30–09:50 Plenary session: plenary talks / IXAS awards ceremony / general announcements 09:50 Coffee break, after parallel sessions 10:20–12:30 Parallel sessions 13:40–15:00 Plenary session: plenary talk / XAFS17 presentation / closing remarks 15:00–18:00 ANKA tour 18:00 Sino-German Workshop on Catalysis and Membranes

General Information

The registration desk is located in the Audimax:



Opening hours

- Sunday: 16:00 – 19:00
- Monday: 07:30 – 17:30
- Tuesday: 08:00 – 17:30
- Wednesday: 08.00 – 14:00
- Thursday: 08:00 – 14:00
- Friday: 08:00 – 14:00

Internet Access / WiFi

All registered participants will receive personalized guest account data upon check-in to connect mobile devices like smart phones, tablets and laptops to a wireless network for free access to internet services. All participants are obliged to adhere to the WiFi terms of use!

Help Desk

+49 (0) 721 / 608 47390

Emergency Number

112 (Emergeny) / 110 (Police)

Taxi

+49 (0) 721 / 160 200 (Taxi-Ruf Karlsruhe)
+49 (0) 721 / 94 41 44 (Taxi-Funk-Zentrale Karlsruhe)

Photos/Videos

It is prohibited to take photos and/or videos in all buildings.

Audimax

16:00	Registration	16:00
	Welcome party	18:00
19:00		
20:00		20:00

Topic color code

General
I. Theory and Modelling, Data analysis
II. New sources and new instrumentation
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
VIII. Soft Matter and biology
IX. Microscopy, beamlines, applications, cultural heritage
XFEL, Industriesession

Monday, August 24

07:30 Registration

08:30 Welcome session
B. Bunker, IXAS President; D. Löhe, KIT Vice President; F. Mentrup, Mayor of the City of Karlsruhe; B. Murphy, KFS Vice President; J.-D. Grunwaldt, XAFS16 Chair

09:20 General announcements

09:30 **III-PL-01** C. Heske
Serena de Beer
X-ray emission spectroscopic studies of biological catalysis

10:10 Coffee break

Audimax A — Time-resolved and ultrafast
R. Frahm, A. Rochet

10:40
10:50 **IV-O-01 Y. Li**
Origin of giant electrostriction in Gd doped ceria revealed by differential QEXAFS

11:10 **IV-O-02 S. Gu**
Quick-scanning system update at SSRF XAFS experimental station

11:30 **IV-O-03 M. Chergui**
Pico- and Femtosecond X-ray absorption study of electron localization in photoexcited TiO2 nanoparticles

11:50 **IV-O-04 J. Just**
Nucleation and Growth Kinetics of Multinary Nanocrystals by Quick Extended X-ray Absorption Fine Structure

12:10
12:20

Audimax B — From hard to soft X-rays
G. Vanko, W. Caliebe

10:40
10:50 **III-O-01 P. Miedema**
State-dependent fluorescence through the Coulomb exchange

11:10 **III-O-02 T. Kroll**
Extracting Electronic Structure Information from 1s2p RIXS and L-edge XAS of Transition Metal Complexes

11:30 **III-O-03 P. Glatzel**
Orbital mixing and multiplet effects in the K absorption pre-edges of TiO2 and Mn2O3

11:50 **III-KN-04 S. Huotari**
Non-resonant X-ray Raman scattering spectroscopy

12:10
12:20

Neue Chemie — Fundamental theory
A. di Cicco, C. Jacob

10:40
10:50 **I-KN-01 J.J. Kas**
Advances in the theory and calculation of many-body effects in x-ray spectra

11:10 **I-O-02 F.D. Vila**
Dynamic structural disorder and reactivity in supported metal nanocatalysts

11:30 **I-O-03 J. Rehr**
Efficient Bethe-Salpeter equation calculations of x-ray spectra of large systems

11:50 **I-O-04 B. Ravel**
FEFF85EXAFS: open source theoretical standards for EXAFS analysis

12:10
12:20

Criegee — Environmental I
R. Dähn, A. Manceau

10:40
10:50 **V-O-01 S.A. Thomas**
Coordination environment of Hg(II) bound to E. coli in the presence and absence of organic ligands: influence of metabolic activity

11:10 **V-O-02 A.R. Showalter**
An X-ray absorption spectroscopy study of Cd binding onto a halophilic archaeon

11:30 **V-O-03 M. Harfouche**
Absorption and Mobility of Cr and Zn in Soil in the Vicinity of Jordan River

11:50 **V-O-04 E. Montarges-Pelletier**
Zn K-edge XAFS for the study of river material reactivity towards metals

12:10
12:20

Lunch break

Audimax A — Catalysis & Novel methods
A. Jentys, V. Briois

13:20
13:30 **IV-KN-05 C. Lamberti**
Local environment and electronic structure of active sites in Cu-SSZ-13 deNOx catalyst under reaction conditions

14:00 **IV-O-06 B. Liu**
In-situ 2p3d resonant x-ray emission spectroscopy of Co/CNT Fischer-Tropsch catalysts

14:20 **IV-O-07 R. Kopelent**
Identification of active and spectator species during low-temperature CO oxidation on a ceria-based catalyst using in situ time-resolved resonant X-ray emission spectroscopy

14:40 **IV-O-08 P.P. Wells**
XAFS Investigations of MoOx/Fe2O3 based systems

15:00 **IV-O-09 L. Lukashuk**
Investigation of preferential CO oxidation over Co3O4 and CeO2-Co3O4 by operando X-ray absorption spectroscopy

15:20

Audimax B — Nano-analysis and applications
K. Ławniczak-Jabłońska

13:40 **VI-O-01 M. Staniuk**
Tracking of the changes during nucleation and growth of nanoparticles in solution – MCR-ALS analysis of time-resolved XANES data

14:00 **VI-O-02 T. Petit**
Interfacial water on nanodiamonds in colloidal dispersions probed by transmission X-ray absorption spectroscopy

14:20 **VI-O-03 H.W.P. Carvalho**
In situ XAS uncovering the mechanisms of thermal stabilization of polymer-clay nanocomposites

14:40 **VI-O-04 S. Mirzaei**
Characterizing the structural properties of the NPs formed by ion implantation in LPCVD and PECVD Si3N4 using XAS

15:00 **VI-O-05 A. Konashuk**
Advanced ultralow-k organosilicate glasses: NEXAFS study

15:20

Neue Chemie — Data analysis
B. Ravel, M. Newville

13:20
13:30 **I-O-05 H. Ikemoto**
miXAFS: A Program for X-ray Absorption Fine Structure Data Analysis

13:40 **I-O-06 M.U. Delgado-Jaime**
Analysis of X-ray spectra by fitting Multiplet Simulations to experimental data

14:00 **I-O-07 K. Hatada**
EXAFS analysis using the new Graphical User Interface of the GNXAS suite of programs

14:20 **I-O-08 J. Timoshenko**
Disappearance of correlations in the atom motion upon hydrogen intercalation into ReO3 lattice: in-situ EXAFS study, deciphered by a novel reverse Monte Carlo / evolutionary algorithm approach

14:40 **I-O-09 A.A. Guda**
Efficient multicore parallelization of the finite difference method for x-ray absorption spectroscopy in the FDMNES code

15:00 **I-O-10 X. Junquig**
X-ray absorption spectra of graphene and graphene oxide by Full Potential Multiple Scattering calculations with self-consistent potential

15:20

Criegee — Actinides & Radionuclides I
M. Denecke, J. Rothe

13:20
13:30 **V-KN-05 S. Conradson**
Novel Structural Chemistry – and More – from Actinide XAFS

14:00 **V-O-06 T. Vitova**
High energy resolution XANES as a tool for electronic and geometric structural investigations of actinide materials

14:20 **V-O-07 M.I. Boyanov**
Biological and abiotic factors affecting the solid-phase speciation of U(IV) following reduction of aqueous U(VI)

14:40 **V-O-08 V.A. Samson**
Identifying the "Unidentified": Crud Deposits from Swiss Pressurized Water Reactor Analyzed by Multi-Edge micro-X-ray Absorption Spectroscopy, micro-XRD and Complementary Chemical Imaging

15:00 **V-O-09 T. Reich**
Speciation of neptunium during sorption and diffusion in natural clay

15:20

Coffee break

	Catalysis & Noble metal clusters O. Safonova, W. Grünert	Nanostructures, Ferroelectrics to metal-organic frameworks D. Batchelor	Instrumentation beamlines P. Kappen, V. Briois	Biology S. de Beer, M. Haumann	
15:50		**VI-KN-06 F. Rocca** Negative thermal expansion of ScF3: an EXAFS study at the Scandium K-edge from 10 K up to 1100 K	**II-KN-01 M. Newville** Upgraded X-ray Spectroscopy Microprobe Beamline 13-ID-E of the Advanced Photon Source	**VIII-KN-01 W.S. Chu** Progress in XANES ab initio calculations of complex metalloenzymes with two metal centers	15:50
16:00	**IV-O-10 D. Matsumura** Precise observation of structural change of Pd nanoparticles during surface adsorption and catalytic reaction				16:00
16:20	**IV-O-11 X. Pan** Confinement effects of carbon nanotubes on catalysis	**VI-O-07 H. Wahab** Identification of carbon bonds in graphene oxide using soft x-ray reflectometry	**II-O-02 O. Mathon** X-ray Absorption Spectroscopy under Extremes	**VIII-O-02 M. Haumann** Metal-hydride intermediates in FeFe and NiFe hydrogenase enzymes detected and characterized by XAS/XES and DFT	16:20
16:40	**IV-O-12 T. Uchiyama** Mechanochemical preparation and local structural analysis of Pd-LaFeO3 solid solutions by Pd K- and L3-edge X-ray absorption spectroscopy	**VI-O-08 M. Rovezzi** High-resolution x-ray absorption and emission spectroscopy study of Mn incorporation in AlxGa1-xN hetero-structures	**II-O-03 T. Uruga** Quick XAFS system with millisecond time resolution	**VIII-O-03 J. Kowalska** Insights into the electronic structure of iron atoms in FeMo cofactor of nitrogenase and related models	16:40
17:00	**IV-O-13 A.M. Abdel-Mageed** Geometric and electronic structure of Au on Au/CeO2 catalysts during the CO oxidation: Deactivation by reaction induced particle growth	**VI-O-09 A. Anspoks** Local dynamics and phase transition in quantum paraelectric SrTiO3 studied by Ti K-edge x-ray absorption spectroscopy	**II-O-04 W. Caliebe** High-Flux EXAFS Beamline P64 at PETRAIII	**VIII-O-04 F. Stellato** Zn(II)/Cu(II) cross-coordination to Ab peptides can modulate the peptide aggregation propensity. A XAS structural study	17:00
17:20	**IV-O-14 A. Gänzler** Operando structure-activity correlations in applied catalytic systems: Oscillatory CO oxidation in exhaust gas catalysts	**VI-O-10 M. Rangus** XAS study of structural dynamics induced by heating and hydration of Ca-terephtalate metal-organic framework	**II-O-05 O. Müller** The new QEXAFS monochromator, detection and data acquisition system at the SuperXAS beamline (SLS) for EXAFS spectroscopy with 15 ms time resolution	**VIII-O-05 B. Pollakowski** Characterization of surface contaminants of medical devices	17:20
17:40	Evening break, transition to poster session				17:40
18:00			Poster session I		18:00
19:30					19:30

Audimax A

Audimax B

Neue Chemie

Criegee

Topic color code

General
I. Theory and Modelling, Data analysis
II. New sources and new instrumentation
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VIII. Soft Matter and biology

Tuesday, August 25

II-PL-02 — F. de Groot
Anders Nilsson
Ultrafast X-ray Spectroscopic Probing of Catalytic Surface Chemical Reactions using LCLS

V-PL-03 — A. Vögelin
Alain Manceau
Emerging applications of high-resolution XANES spectroscopy in environmental science

Conference picture and general announcements

Coffee break

Audimax A

Environmental II
A. Manceau, J. Göttlicher

V-KN-10 A. Voegelin (10:40)
Exploring the formation and structural diversity of Fe(III)-precipitates in aquatic systems using XAS

V-O-11 D. Cabaret (11:10)
Probing the 3d states of Fe in goethite using Al K-edge XANES spectroscopy

V-O-12 F. Pinakidou (11:30)
Metal (Hydr)oxides for the removal of Cr(VI) from drinking water: a XAFS study

V-O-13 R. Dähn (11:50)
X-ray microspectroscopic investigations of heavy metal uptake by argillaceous rocks

Audimax B

Operando and time-resolved
G. Aquilanti, J. Purans

VI-O-11 A.D. Winter (10:50)
Thermo-mechanical behaviour of EVA|CNT composites studied through in situ NEXAFS spectroscopy

VI-O-12 T. Yao (11:10)
Time-resolved XAFS in kinetic formation and transition mechanism of nanoclusters and nanocrystals

VI-O-13 D. Degler (11:30)
Operando X-ray absorption spectroscopy: A key technique to understand the structure-function-relationship of noble metal doped gas sensing materials

VI-O-14 T. Asanova (11:50)
Energy-dispersive XAFS and PXRD study of (NH4)2[OsCl6] thermolysis

Neue Chemie

Advanced XAS Technics I
P. Glatzel, S. Huotari

III-KN-05 M. Nachtegaal (10:40)
Time-resolved x-ray absorption and emission spectroscopies to determine the structure of the catalytic active site

III-O-06 J.-C. Gasse (11:10)
Yoneda-XAFS experiments with X-ray area detectors

III-O-07 G. van der Laan (11:30)
Probing the magnetization dynamics of spin valve systems using x-detected ferromagnetic resonance

III-O-08 C.T. Chantler (11:50)
The quality of X-ray Absorption Fine Structure measurements by Transmission for dilute systems, using the Hybrid Technique

Criegee

Surfaces and interfaces
D. Lützenkirchen-Hecht, H. Abe

IV-KN-15 K. Asakura (10:40)
Polarization dependent total reflection fluorescence XAFS and the control of metal structures on oxide surfaces

IV-O-16 H.L. Meyerheim (11:10)
XAFS study of the local structure of iron on the (0001) surface of the topological insulator Bi2Se3

IV-O-17 N.I. Verbitskiy (11:30)
Atomically precise semiconductor-graphene interfaces by Ge intercalation

IV-O-18 F. d'Acapito (11:50)
The Role Of Ag and Sb Ions In The Resistive Switching Mechanism Of Conductive Bridging Random Access Memories

Chemie HS I

Soft X-Ray XAFS
A. Nilsson

XFEL-Spectroscopies at XFELs: a Short Introduction
C. Bressler

XFEL-01 S. Schreck (10:40)
Implications of adding the dimension of time to science with X-rays

XFEL-02 P. Wernet (11:10)
Orbital-specific mapping of chemical dynamics

XFEL-03 R. Carley (11:30)
Ultrafast generation of magnetic ordering in a first order phase transition in FeRh

XFEL-04 M. Beye (11:50)
Stimulating soft X-ray emission from condensed matter

Lunch break

Audimax A

Earth and extreme conditions
A. Vögelin, R. Dähn

V-KN-14 Y. Ping (13:30)
XAFS in high-energy-density matter: solid iron up to 560GPa

V-O-15 J. Pohlenz (14:00)
Structural Properties of Sodium-Rich Carbonate-Silicate Melts: An In-situ High-Pressure EXAFS Study on Y and Sr

V-O-16 M.J. Ward (14:20)
Large area – high spatial resolution iron XANES mapping of impact melt-bearing breccias

V-O-17 N. Thammajak (14:40)
Discovering effect of radiation interaction on color of freshwater cultured pearls

Audimax B

In situ and operando studies
A. Leon, F. Scheiba

VII-KN-01 D. Asakura (13:30)
Electrochemical operando soft x-ray emission spectroscopy for Li-ion-battery electrodes

VII-O-02 M. Tromp (14:00)
Operando XAS Characterization of LiS Batteries

VII-O-03 Z. Arthur (14:20)
In situ XAS/XRD Study of Li2FeSiO4 as LIB Cathode Material

VII-O-04 K. Aziz-Lange (14:40)
In-situ techniques for soft X-ray spectroscopy on catalytic and electrochemical systems

VII-O-05 G. Aquilanti (15:00)
Operando XAS study of Li-S batteries

Neue Chemie

XES + RIXS
H. Carvalho, M. Nachtegaal

III-KN-09 M. Bauer (13:30)
Homogeneous catalysis and high resolution hard X-ray absorption and emission spectroscopy

III-O-10 S. Mebs (14:00)
Abrupt vs. gradual spin-crossover in classic Fe(II) and Fe(III) compounds analyzed by high-resolution XAS/XES and DFT

III-O-11 A. Bordage (14:20)
In situ site-selective K-edge XAS: A powerful probe of the transformation of mixed-valence compounds

III-O-12 M. al Samarai (14:40)
Redox sensitivity of cobalt in the CoMoS and CoNiMoS HDS catalyst: a Resonant Inelastic X-ray Scattering study

Criegee

Surfaces and electrocatalysis
K. Asakura, S.L. Schroeder

IV-O-19 D. Lützenkirchen-Hecht (13:40)
Ex-situ and in-situ investigations of thermal anti-oxidation treatments of Cr-Ni steels by reflection mode EXAFS

IV-O-20 M.-H. Chu (14:00)
In situ X-ray absorption spectroscopy characterization of the incipient growth of ZnO thin films by atomic layer deposition

IV-O-21 K.K. Bando (14:20)
In situ XAFS and XRD observation during a preparation process of an electroluminescent Tb doped alumina film

IV-O-22 L.A. Bugaev (14:40)
Atomic structure of PtCu nanoparticles in PtCu/C catalysts prepared by simultaneous and sequential deposition of components on carbon support

IV-O-23 L. Zhang (15:00)
EXAFS-A Powerful Tool to Determine the Structure of Active Species in Single-atom Catalysts

Chemie HS I

Hard X-Ray XAFS
C. Bressler

XFEL-05 K. Gaffney (13:30)
Probing chemical reaction dynamics with atomic resolution and specificity using ultrafast x-ray spectroscopy

XFEL-06 G. Vankó (14:00)
Tracking light-induced ultrafast transformations of transition metal complexes

XFEL-07 T. Katayama (14:20)
Developments for time-resolved X-ray spectroscopies using X-ray Free Electron Lasers at SACLA

XFEL-08 Y. Uemura (14:40)
Femto to Picosecond Transient States of a Photoexcited WO3 Photocatalyst

XFEL-09 D. Zhu (15:00)
Development in Ultrafast X-ray Spectroscopy at the X-ray Pump Probe Instrument of the LCLS

Coffee break

Audimax A

Earth & Radionuclides
T. Reich, M. Boyanov

V-O-18 K. Kvashnina
Recent progress in high energy resolution X-ray spectroscopy of actinides

V-O-19 B. Mishra
Using X-ray Raman to Study Soil Carbon Biogeochemistry

V-O-20 A. Gaur
XAFS study of copper(II) diethylenetriamine complexes having different coordination geometries

V-O-21 M. Vespa
X-Ray Absorption Spectroscopic analyses of stable Fe-phases in aged cements

Audimax B

Nanostructures & Coordination chemistry
C. Roth, Y.-L. Soo

VII-O-06 M. Marcus
Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity

VII-O-07 A. Zitolo
XAS spectroscopic fingerprint of the active site in non-precious metal electrocatalysts for PEM fuel cells

VII-O-08 E. Borfeccia
A XAS study of the local environment and reactivity of Pt-sites in functionalized UiO-67 MOFs

VII-O-09 W. Szczerba
On the electronic structure and coordination geometry of iron based metallo-supramolecular coordination polyelectrolytes in working electrochromic devices

Neue Chemie

Implanted atoms and particles
F. Boscherini

VI-O-15 A. Figueroa
Local structure and bonding of magnetic dopants in Bi2Se3 and Bi2Te3 topological insulator thin films

VI-O-16 R. Feng
EXAFS study on the structural properties of In and In + C implanted Ge

VI-O-17 M.A. Sahiner
Subtle local structural variations in oxygen deficient niobium germanate thin film glasses as revealed by x-ray absorption spectroscopy

VI-O-18 I.A. Kowalik
Soft x-ray absorption spectroscopy on Atomic Layer Deposition grown ZnO films

Criegee

Session reserved for special topics

To be announced on short notice

Chemie HS I

XFEL XAFS Applications
W. Gawelda

XFEL-10 T. Kroll
X-Ray Spectroscopy at XFELs – Present and Future

XFEL-11 C. Milne
Revealing Charge Carrier Trapping in ZnO nanoparticles with Femtosecond time-resolved X-ray Spectroscopy

XFEL-12 Y. Kayser
RIXS spectroscopy at hard XFELs using non-monochromatized SASE pulses

XFEL-13 M. Harmand
Matter under extreme conditions probed with ultrafast XANES on FEL facilities

XFEL-close out
C. Bressler/W. Gawelda

15:40 – 17:20

Evening break, transition to poster session

18:00 – 19:30

Poster session II

Topic color code

General
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
XFEL, Industrial Symposia

Wednesday, August 26

Audimax

08:30 **IV-PL-04**
Simon Bare — J.-D. Grunwaldt
In situ XAFS: An Industrial Perspective

09:10 **IX-PL-05**
Jennifer Mass — R. Gordon
Fading Old Masters and post-Impressionists: XANES Methodologies for the Preservation of Iconic Paintings

09:50 IXAS presentation — B. Bunker, P. Glatzel

10:00 Presentation of CXAFS/IUCr — C. Chantler

10:10 Coffee break

Audimax A — Microscopy & cultural heritage
R. Gordon, J. Hormes

10:40 **IX-KN-01 P. Gilbert**
PEEM and Pearls

11:10 **IX-O-02 C. Gervais**
Time resolved XANES illustrates a substrate-mediated redox process in Prussian blue cultural heritage materials

11:30 **IX-O-03 L. Monico**
Synchrotron X-ray spectromicroscopy for the study of the photo-redox alteration process of chrome yellow pigments: towards safer illumination conditions and original color reconstruction of Van Gogh paintings

11:50 **IX-O-04 E. Willneff**
Near Edge X-Ray Absorption Fine Structure (NEXAFS) Imaging of Artists' Acrylic Paint Films

12:10 **IX-O-05 P.-J. Sabbe**
Chemical imaging of heritage metal surfaces with X-ray-excited optical microscopy

Audimax B — Operando spectroscopy
X. Bao, J.A. van Bokhoven

10:50 **IV-O-24 J. Radnik**
In situ XAS investigations of the butane oligomerization under industrially relevant conditions

11:10 **IV-O-25 M. Steib**
On the role of metal-support interactions on the structural and catalytic properties during CH4 reforming reactions

11:30 **IV-O-26 B. Mutz**
Methanation of CO2: Structural response of Ni-based catalysts under fluctuating reaction conditions unraveled by operando XAS

11:50 **IV-O-27 A.I. Frenkel**
Structural and charge heterogeneities in supported nanoscale metal clusters

12:10 **IV-KN-28 L. van Haandel**
Hydrotreating catalyst activation under industrial conditions

Neue Chemie — Nanotechnology & Magnetism
G. van der Laan

10:50 **VI-O-19 C. Guglieri**
Real-time structural study of the synthesis of ZnO nanoparticles capped with dodecanethiol molecules

11:10 **VI-O-20 E. Fonda**
Structure and stability of self assembled metallic nanowires in CeO2 or SrTiO3

11:30 **VI-O-21 A.V. Soldatov**
Determination of the 3D Local Atomic and Electronic Structure of Nanoparticles by Combining of X-Ray Absorption and Computer Modeling

11:50 **VI-O-22 M. Hagelstein**
Structural characterisation of Fe2O3 nanoparticles

12:10 **VI-KN-23 K. Ławniczak-Jabłońska**
Structural and magnetic properties of nanoclusters formed in III-V semiconductors

Criegee — Instrumentation detectors
C. Glover, L. O'Ryan

10:40 **II-KN-06 C. Fiorini**
New trends and challenges for detectors and electronics for XAFS

11:10 **II-O-07 S.M. Heald**
Looking for the Limits of Fluorescence Detection of XAFS

11:30 **II-O-08 V. Marian**
Electrically-cooled HPGe detector for advanced x-ray spectroscopy and imaging

11:50 **II-O-09 J. Uhlig**
Microcalorimeters for time-resolved and other photon-starved x-ray spectroscopies

12:10 **II-O-10 L.A. Martin-Montoya**
Data reduction for the 100 pixel Ge detector for XAS

12:30
12:40 Lunch break

14:00 Excursions

19:10

Topic color code

- General
- II. New sources and new instrumentation
- IV. Chemistry, catalysis, operando and time-resolved studies
- VI. Materials Science
- IX. Microscopy, beamlines, applications, cultural heritage

Thursday, August 27

08:30 – 09:10 — Audimax

V-PL-06
Philippe Martin — M. Denecke
Application of HERFD and in situ XAS to the investigation of oxide nuclear fuel and fission product behavior

09:10 – 09:50 — Audimax

I-PL-07
Peter Blaha — P. Glatzel
Electron-hole interactions in theoretical XAFS calculations

09:50 – 10:00 — Audimax

General announcements

10:00 – 10:20

Coffee break

10:20 – 12:30

Audimax A	Audimax B	Neue Chemie	Criegee	Chemie HS I
Actinides & Radionuclides II S. Conradson, T. Vitova	L-edge theory F. de Groot, P. Blaha	Devices and applications D. Haskel	Advanced in situ C. Chantler, C. Lamberti	Industrial symposium I A.I. Frenkel, K. Kvashnina, M. Casapu
	I-KN-11 M. Haverkort Ab initio methods for core level spectroscopy - excitons, resonances and band excitations in time and frequency domain			IS-Introduction A.I. Frenkel
V-O-22 S.M. Butorin Ground state character in high-resolution x-ray absorption at M, N and O edges of actinides		**VI-O-24 M. Matsuura** Structure analyses of Cu clusters and precipitated a-Fe during nanocrystallization of soft magnetic Fe85.2Si1B9P4Cu0.8 alloys by XAFS	**III-O-13 S. Baier** Lithographically fabricated silicon microreactor for in situ characterization of heterogeneous catalysts	**IS-O-01 T. Hyde** Study of Industrial Catalysts by X-Ray Adsorption Spectroscopy
V-O-23 D. Prieur Electronic and structural changes induced by the incorporation of aliovalent cation in UO2	**I-O-12 H. Ikeno** Development of the Ab-Initio Multiplet Approach for K pre-edge and L2,3-edge RIXS in Transition Metal Compounds	**VI-O-25 S. Lafuerza** LuFe2O4: a potential charge-ordering driven multiferroic studied by XAS at the Fe and O K-edges	**III-O-14 O. Hirsch** Atomic and electronic structure of La2O2CO3 on the basis of X-ray absorption and emission spectroscopy and the reactivity of La2O2CO3 films towards CO2	**IS-O-02 P. Albers** Applications of synchrotron radiation and neutron scattering in industrial catalyst research
V-O-24 N. Finck EXAFS signatures of trivalent actinides uptake by green rust and magnetite	**I-O-13 I. Josefsson** Modeling x-ray spectra of metal complexes from first principles	**VI-O-26 R. Schepper** High energy resolution X-ray absorption and emission spectroscopy for the investigation of spin crossover processes	**III-O-15 V. Briois** Study of SnO2 nanoparticles genesis using combined time-resolved Raman and Quick-XAS spectroscopies	**IS-O-03 C. Tyrsted** The nitrate-nitrite equilibrium: a key step in the NH3-SCR mechanism over Cu-CHA type catalysts
V-O-25 G. Creff Actinides interaction with human bone: speciation and accumulation mechanisms	**I-O-14 M. Guo** Simulations of iron K pre-edge X-ray absorption spectra using the core restricted active space method	**VI-O-27 D. Grandjean** Structural characterization of highly luminescent molecular silver clusters embedded in LTA zeolites using combined Ag K-edge XEOL and transmission-detected EXAFS	**III-O-16 E.K. Gibson** A combined XAFS/DRIFTS study of AuPd nanoparticle restructuring	
V-O-26 I. Pidchenko U Redox State and Speciation of U In Contact with Magnetite Nanoparticles: High Resolution XANES, EXAFS, XPS and TEM Study	**I-O-15 M. Hunault** Tracking the signature of low symmetry environments in the XAS K pre-edge	**VI-KN-28 T. Miyanaga** XAFS study on luminescent Ag zeolites	**III-KN-17 S. Best** X-ray Spectroelectrochemistry – Valuable use of sample?	**IS-O-04 Y. Nagai** Study of automotive catalysts for emission control by X-ray absorption spectrometry

12:30 – 13:40

Lunch break

13:40 – 15:10

Audimax A	Audimax B	Neue Chemie	Criegee	Chemie HS I
Nanostructures A. Soldatov, M. Giorgetti	Applied theory J. Rehr, M. Haverkort	Atoms and solvation A. Goldbach, M. Ronning	Microscopy application C.G. Schroer, U. Boesenberg	Industrial symposium II A.I. Frenkel, K. Kvashnina, M. Casapu
VII-KN-10 S. Price In situ XAS of electrochemical systems	**I-KN-16 P. D'Angelo** The structure of liquids: an insight from XAFS and Molecular Dynamics	**IV-O-29 S.-Y. Chang** Evidence for a Strongly Bound Solvent Molecules: XANES and EXAFS of Aqueous Au(III) Cyanide	**IX-KN-06 K. Janssens** XAFS and species-specific imaging: new and old combinations for elucidating natural alteration reactions in pigmented materials	**IS-O-05 A. Kroner** Industrial Research on Catalysis at Diamond Light Source
VII-O-11 M. Katsikini Simulation of the EXAFS and Raman spectra of InxGa1-xN enabling the equation of motion routine of FEFF8	**I-O-17 R. Nemausat** Experimental and ab initio study of phonon effects in X-ray Absorption Near-Edge Structure spectroscopy	**IV-O-30 J. Szlachetko** Two-photon absorption using off-resonant excitation with ultrashort X-ray pulses	**IX-O-07 R. Gordon** A microchannel confocal examination of arsenic speciation and distribution in Bufo americanu	**IS-O-06 J. Wang** XAFS characterization of Industrial catalysts for metal-containing molecular sieves
VII-O-12 H. Kim X-ray absorption study of the newly observed reaction mechanism of mesoporous SnO2 electrode for the next generation Li-ion battery	**I-O-18 P. Krüger** Calculation of L23-edge spectra of K, Ca and Ti compounds with multichannel multiple scattering theory	**IV-O-31 S.A. Thomas** An X-ray absorption spectroscopy study of the molecular structure of aqueous Hg(II)-EDTA	**IX-O-08 F. Mosselmans** Micro X-ray imaging of single catalyst particles under operating conditions	**IS-O-07 C. Tardivat** In-situ XAFS studies of Pt/CeO2 oxidation catalysts
VII-O-13 N. Lock Copper doped TiO2 characterized by X-ray absorption spectroscopy, total scattering and powder diffraction	**I-O-19 I.E. Brumboui** The influence of oxygen adsorption on the O1s XPS and NEXAFS spectra of the C60 derivative PC60BM	**IV-O-32 S. Bartlett** Stopped-Flow Freeze-Quench EXAFS: A New Method to Investigate In-Situ Homogeneous Catalysis	**IX-O-09 J. Hormes** Synchrotron radiation based X-ray absorption and X-ray fluorescence for art and cultural heritage: opportunities and pitfalls	

15:10 – 15:30

Coffee break

	RIXS and gas release E. Umbach, L. Weinhardt	Advanced XAS Technics II E. Aziz, T. Kroll	Phase transitions and theory H. Ebert, C. Schmitz-Antoniak	Microscopy instrumentation G. Falkenberg, A. Rosenhahn	Industrial symposium III A.I. Frenkel, K. Kvashnina, M. Casapu	
15:30					**IS-O-08 T. Honma**	15:30
15:40	**VII-O-14 L. Amidani** Probing with RIXS plasmonic-generated charges in TiO2/Au for photocatalysis	**III-O-18 C. Jansing** Investigation of the Natural X-Ray Birefringence of Graphene by Polarization Spectroscopy	**VI-O-29 F. Goillou** XANES/XMCD study at K-edges of the ferromagnetic transition of MnFe(P,Si,B) magnetocaloric materials	**IX-O-10 P. Tack** A novel approach towards full-field emission mode micro-XANES spectroscopy	Current status of Industrial Utilization of XAFS at SPring-8	15:40
16:00	**VII-O-15 C. Sternemann** Thermally induced hydrogen desorption in magnesium and calcium borohydrides	**III-O-19 K.A. Lomachenko** HERFD XANES and RIXS spectroscopies: probing the electronic structure of osmium complexes	**VI-O-30 N.M. Souza-Neto** Probing 5f-6d electronic hybridization in Uranium compounds with L2,3 edge x-ray magnetic circular dichroism	**IX-O-11 S. Mangold** Newest advances with radiography at the ANKA-XAS using the example of insect mandibles	**IS-O-09 Y. Takeda** XAFS beam lines at Aichi SR Center dedicated to industrial use	16:00
16:20	**VII-O-16 M. Nishibori**	**III-O-20 R. Boada**	**VI-O-31 O. Sipr**	**IX-O-12 L. Lühl**		16:20
16:30	Relationship between O2 desorption property and bulk/local structure of La-Sr-Co-Fe perovskite-type oxide in atmospheres with varying oxygen partial pressure	X-ray spectroscopy study of gas adsorption in metal organic frameworks	Intuitive view on the magnetic dipole term Tz occurring in the XMCD sum rules	The Confocal XRF Setup for Chemical Speciation: Reconstruction Procedure for Confocal XANES and Three-Dimensional Chemical Mapping	**IS-O-10 A.I. Frenkel, K. Kvashnina**	16:30
16:40	**VII-O-17 I. Pankin** Phase transition in Mn(BH4)2 upon heating: combined XAS, XRD and DFT study	**III-O-21 S. Zhao** Correlative use of operando XAS and operando TEM for studies of structural dynamics of catalyst	**VI-O-32 N. Mas** Ab-initio calculation of K-edge XMCD and XNCD spectra	**IX-O-13 O. Sekizawa** SPring-8 BL36XU: Catalytic Reaction Dynamics for Fuel Cells	Roundtable discussion	16:40
17:00						17:00

Audimax A | Audimax B | Neue Chemie | Criegee | Chemie HS I

Individual transfer to Center for Art and Media (ZKM)

18:00	18:00
Center for Art and Media (ZKM) tour	
19:00	19:00
Dinner	
Poster awards	
Official end 23:00	
23:00	23:00

Topic color code

General
I. Theory and Modelling, Data analysis
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
IX. Microscopy, beamlines, applications, cultural heritage
XFEL, Industrial Symposia

Friday, August 28

Audimax

08:30 **VI-PL-08** V. Saile
Hao Tjeng
Fe3O4 thin films: epitaxial growth and properties

09:10 IXAS awards B. Bunker, P. Glatzel
Dale Sayers Award, Ferrel Lytle Award, Ed Stern Award

09:40 General announcements

09:50 Coffee break

Audimax A — Nanomagnetism & Multiferroics
D. Haskel, A. Juhin

10:20 **VI-KN-33 C. Schmitz-Antoniak**
XMCD on Fe-based nanoparticles: Two examples of theory and experiment complementing one another

10:50 **VI-O-34 A. Juhin**
Hard X-ray RIXS-MCD, a magnetic spectroscopy for in situ characterization of nanoparticles and their internal structure

11:10 **VI-O-35 H. Wende**
Electric in-plane polarization in multiferroic CoFe2O4/BaTiO3 nanocomposite tuned by magnetic fields

11:30 **VI-O-36 V. Cuartero**
Local spin state study on Co-doped multiferroic TbMnO3 by Kb X-ray emission spectroscopy

11:50 **VI-O-37 N. Daffe**
Anisotropies and Magnetic coupling in MnFe2O4@CoFe2O4 core@shell nanoparticles

Audimax B — Biology and soft matter
P. D'Angelo, H. Harris

10:30 **VIII-O-06 J.S. Stevens**
NEXAFS and XPS of p-Aminobenzoic Acid Polymorphs

10:50 **VIII-O-07 F. Jalilehvand**
Lead(II) binding to thiol-containing molecules of biological interest in aqueous solution

11:10 **VIII-O-08 O. Polozhentsev**
Synthesis and characterization of pure and rare earth doped Fe3O4 magnetic nanoparticles

11:30 **VIII-O-09 J. Czapla-Masztafiak**
Investigating DNA radiation damage mechanisms using X-ray Absorption Spectroscopy (XAS)

11:50 **VIII-O-10 A. Kodre**
EXAFS study of mercury ligand environment in mycorrhizal plant roots

12:10 **VIII-O-11 C. Streeck**
Detection of protein attachment at functionalized solid-liquid interfaces by X-ray absorption spectrometry of carbon and nitrogen

Neue Chemie — Catalysis
J.-D. Grunwaldt, M. Tromp

10:20 **IV-KN-33 X. Bao**
XAS study on confined nanocatalysis

10:50 **IV-O-34 V. Marchionni**
Influence of CO on methane oxidation of TWC by combined spectroscopic and modulation approach

11:10 **IV-O-35 W. Grünert**
Surface Alloy or Ion-Metal Interaction? How XRD and in-situ XAFS Help Understanding the Promotion of Cu by Zn in Methanol Synthesis Catalysts

11:30 **IV-O-36 Y. Joly**
Study of morphology and hydrogen coverage of nanometric platinum particles

11:50 **IV-O-37 J. Nilsson**
Dynamics of supported palladium nanoparticles during methane oxidation studied by in situ XAFS

12:10 **IV-O-38 C. Prestipino**
In situ EXAFS investigation of Ce1-xFexO2-x/2 solid solution for oxygen buffer application

Criegee — Instrumentation & experimental set-up
S. Diaz-Moreno, T. Hutwelker

10:20 **II-KN-11 G. Seidler**
The Modern Laboratory XAFS Cookbook

10:50 **II-O-12 C. La Fontaine**
ROCK: the Quick-EXAFS beamline at SOLEIL

11:10 **II-O-13 K. Witte**
XANES measurements with laboratory setups in the soft X-ray region using a Laser Produced Plasma Source

11:30 **II-O-14 N. Pilet**
NanoXAS - Combining Scanning Probe and X-Ray Microscopy for Nanoanalytics

11:50 **II-O-15 K. Klementiev**
High performance emission spectrometer at Balder/MAX IV beamline

12:10 **II-O-16 T. Regier**
An ambient pressure capable soft x-ray microprobe at the Canadian Light Source

12:30 Lunch break

Audimax

13:40 **VIII-PL-09** B. Bunker
Hugh Harris
X-ray probes for heavy elements in health and disease

14:20 Presentation of XAFS17 in Krakow/Poland
W. Kwiatek

14:40 Closing remarks
New president of IXAS; J.-D. Grunwaldt,XAFS16 chair

15:00 ANKA tour

18:00 Sino-German Workshop on Catalysis and Membranes

(Official end of workshop: Saturday, 29.08.2015 17:15)

Topic color code

- General
- II. New sources and new instrumentation
- IV. Chemistry, catalysis, operando and time-resolved studies
- VI. Materials Science
- VIII. Soft Matter and biology

Travel and Directions

Karlsruhe is easily accessible from a number of airports, rail connections and highways:

Airports

- Stuttgart
- Frankfurt
- Karlsruhe / Baden-Baden
- Strasbourg airport in France

Rail connections

- From Berlin, Hamburg, Frankfurt, Stuttgart, Basel (ICE), Paris (TGV)
- Tram lines from Karlsruhe Main Train Station: 2, S41, S4, 4 (to tram station „Durlacher Tor“)

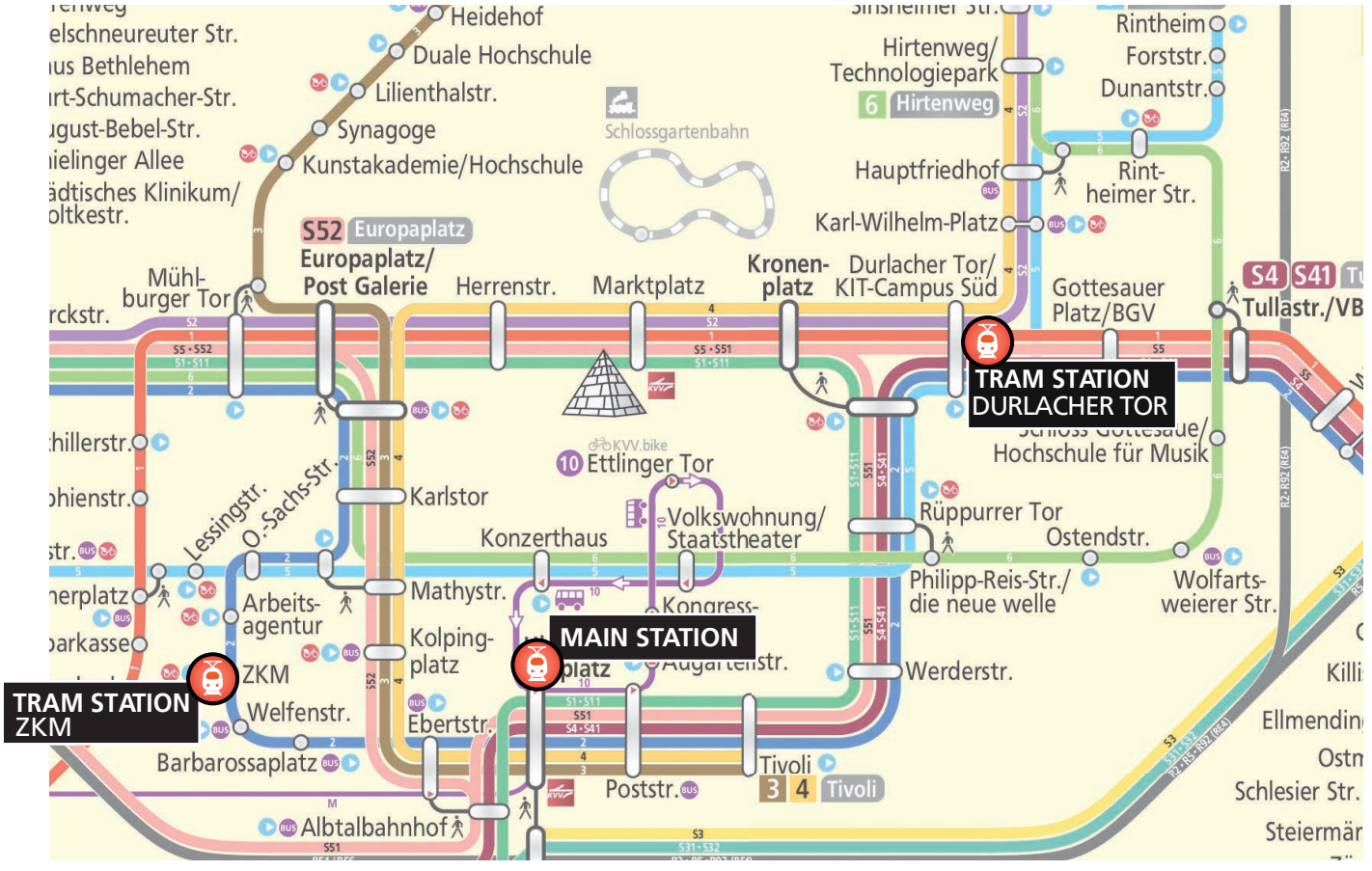
Conference Venue

- KIT Campus South | Karlsruhe Institute of Technology, Kaiserstraße 12, 76131 Karlsruhe
- **Building 30.95: Audimax (A/B)**, Straße am Forum 1, 76131 Karlsruhe
- **Building 30.41: Chemie HS I / Criegee**, Fritz-Haber-Weg 2-6, 76131 Karlsruhe
- **Building 30.46: Neue Chemie**, Engesserstraße 15, 76131 Karlsruhe
- **Building 01.13: MENSA**, Straße am Forum 4, 76131 Karlsruhe

Oral Presentations
(see map on page 15-17)

- KIT Campus North | Karlsruhe Institute of Technology, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen
- **Building 348: ANKA** - Synchrotron Radiation Facility, KIT Campus North

- **ZKM**: Lorenzstraße 19, 76135 Karlsruhe (tram station „ZKM“)

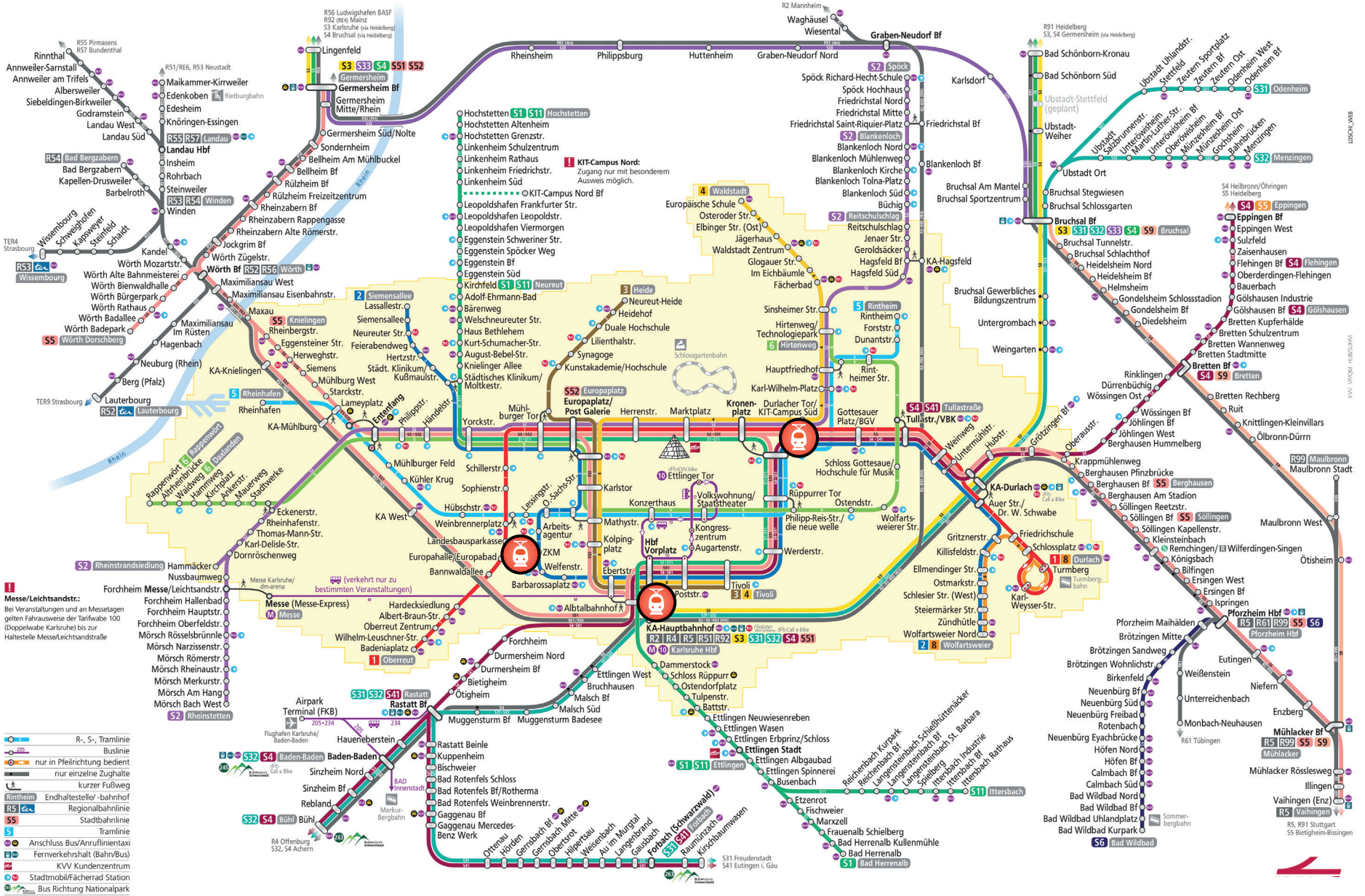


Liniennetzplan

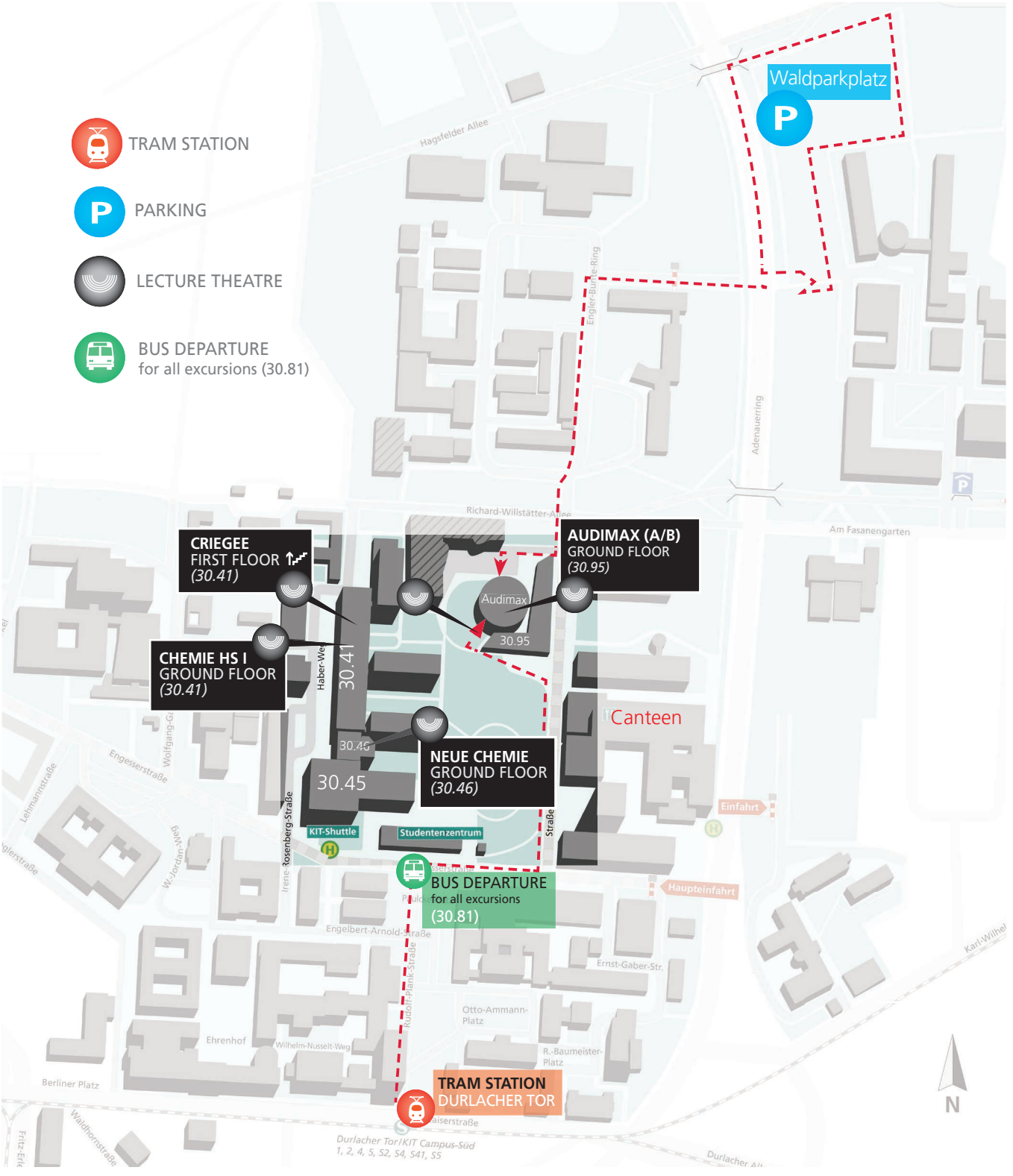
Gültig ab 08. Juni 2015

R S Tram BUS

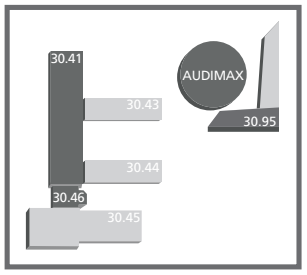
Public Transport (KVV plan)



Map of conference site KIT Campus South



Conference Venue



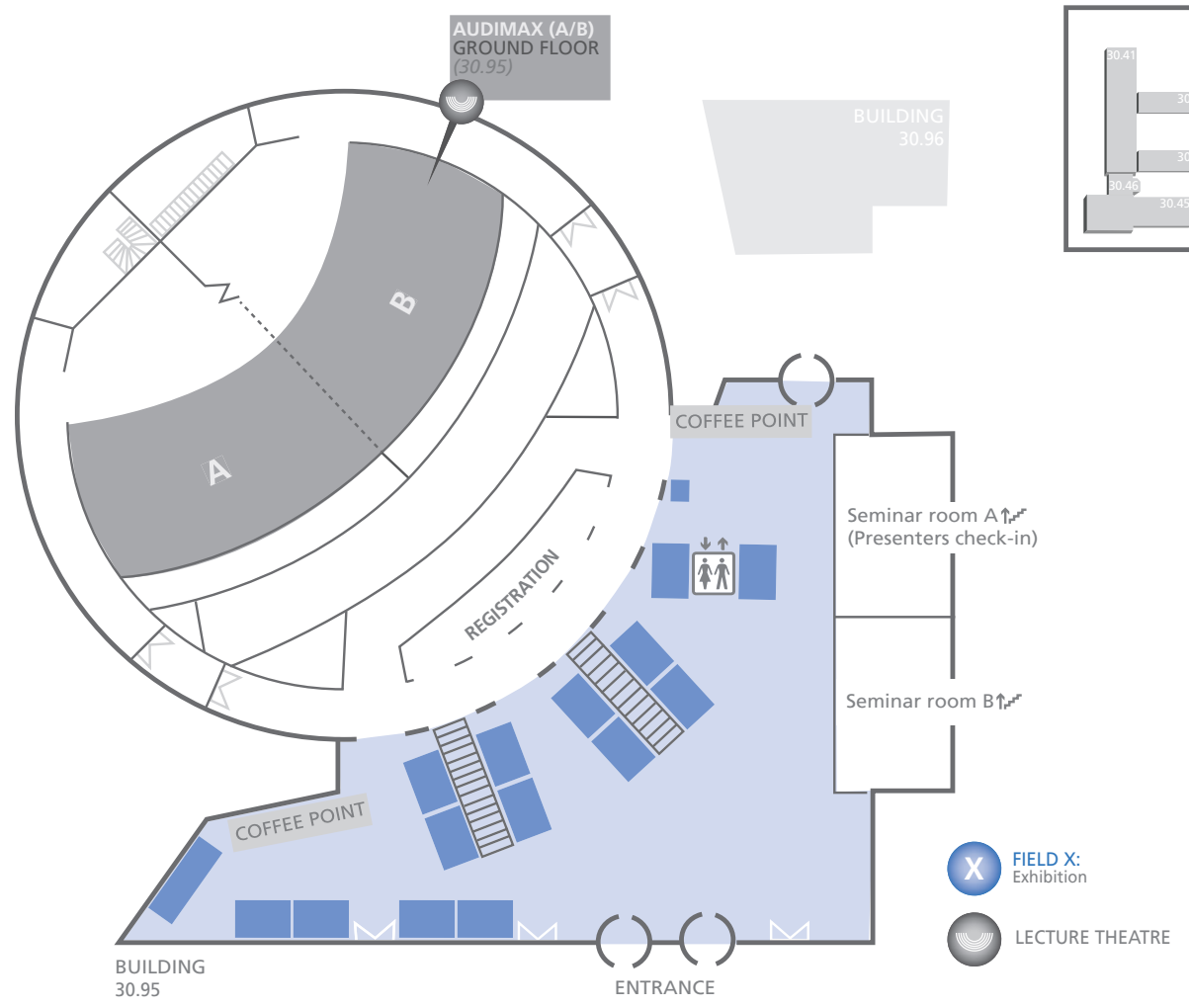
POSTER FIELDS:

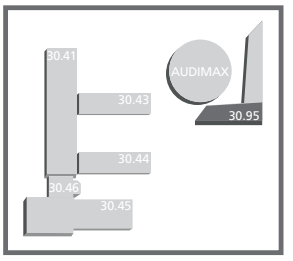
- I — FIELD I: Theory and modelling, data analysis
- II — FIELD II: New sources and new instrumentation
- III — FIELD III: Advanced methods
- IV — FIELD IV: Chemistry, catalysis, operando and time-resolved studies
- V — FIELD V: Radionuclides, actinides, earth and environmental
- VI — FIELD VI: Materials science
- VII — FIELD VII: Energy-related materials
- VIII — FIELD VIII: Soft matter and biology
- IX — FIELD IX: Microscopy, beamlines, applications, cultural heritage
- X — FIELD X: Exhibition

LECTURE THEATRE

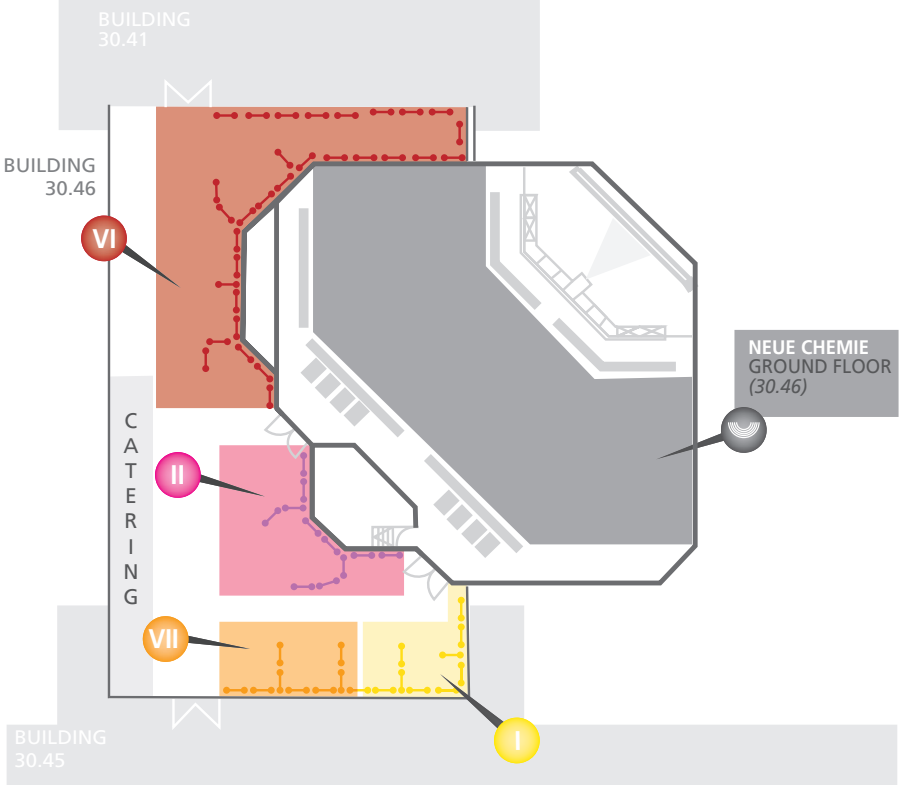
BUS DEPARTURE (30.81)
for all excursions

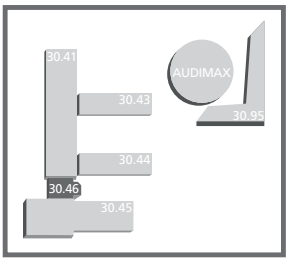
Lecture Halls | Exhibition: Audimax





Lecture Halls | Poster Sessions: Building 30.46





POSTER FIELDS

FIELD I:
Theory and modelling, data analysis

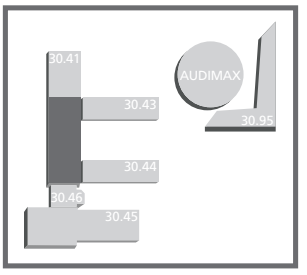
FIELD II:
New sources and new instrumentation

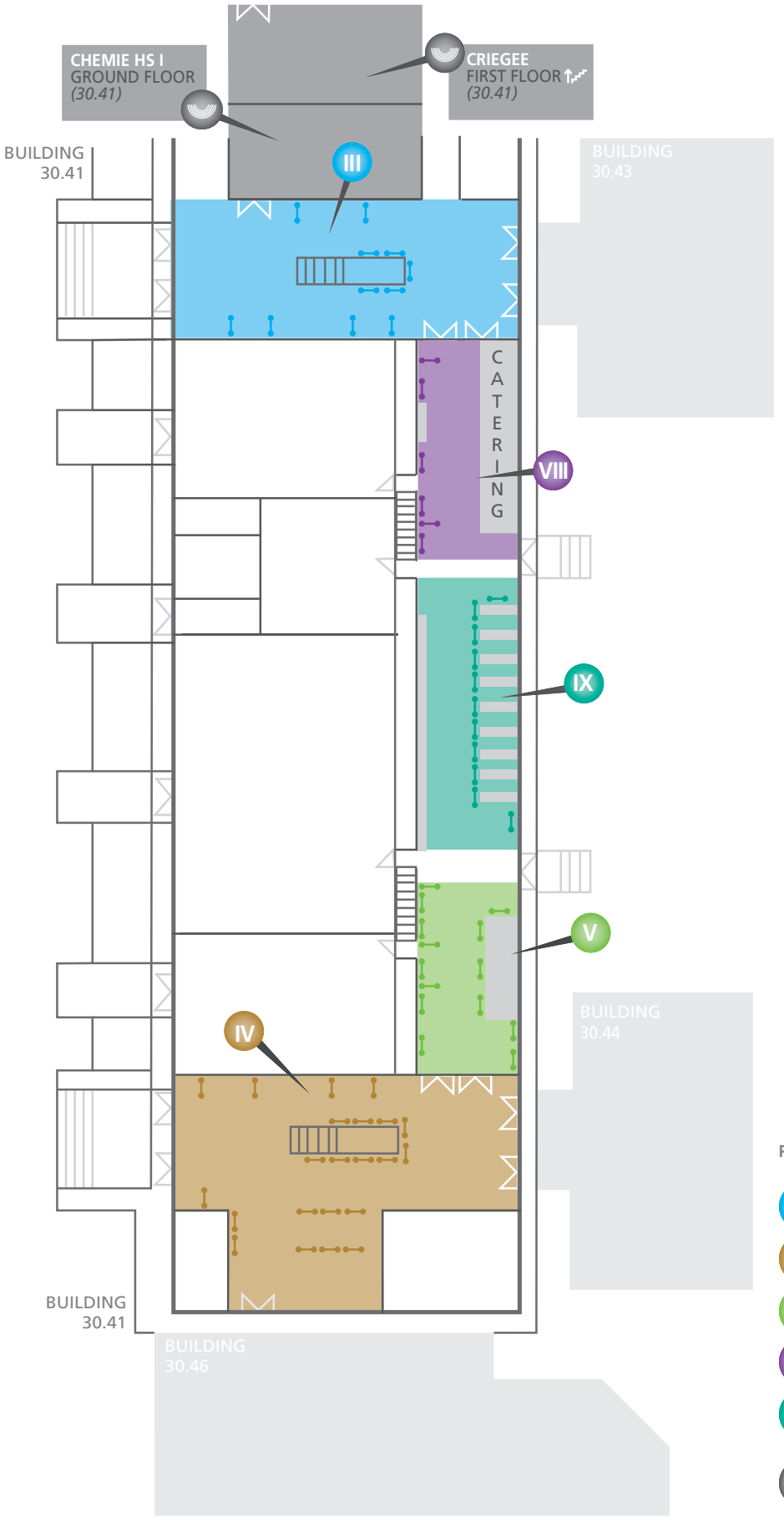
FIELD VI:
Materials science

FIELD VII:
Energy-related materials

LECTURE THEATRE

Lecture Halls | Poster Sessions: Building 30.41





POSTER FIELDS:

- III — FIELD III: Advanced methods
- IV — FIELD IV: Chemistry, catalysis, operando and time-resolved studies
- V — FIELD V: Radionuclides, actinides, earth and environmental
- VIII — FIELD VIII: Soft matter and biology
- IX — FIELD IX: Microscopy, beamlines, applications, cultural heritage

LECTURE THEATRE

Social Events

Welcome Party

Sunday, August 23, 18:00–20:00 h, Audimax (KIT Campus South)

Take the opportunity to get to know the other participants better and enjoy delicious fire-baked Flammkuchen (flaming cakes) at the Audimax at Campus South.

Welcome Party admission is included in your conference registration. Voucher will be handed over at the registration desk.

Excursions

Wednesday, August 26, 14:00–19:10 h (after lunch)

Wednesday afternoon is reserved for optional excursions. Three different guided tours are proposed. The number of participants may be restricted. Tours will be booked following the rule "first registered, first served".

The three options are as follows:

- A walking tour of Heidelberg's Old Town,
- A wine tasting tour in Affental Valley located near Baden-Baden,
- A visiting tour of the medieval Maulbronn Monastery (Unesco World Heritage Site).

The detailed information given below is provided by Karlsruhe Tourismus in charge of the guided tour organization.

Walking tour of Heidelberg's Old Town

Enchanting alleys and squares, small gardens that pop up unexpectedly, museums and galleries: Heidelberg's Old Town has many facets. So that you do not miss any of it, we offer guided walks around the Old Town. Our tours will breathe life into the city's past, adding rich detail to the contours of today's city.

Whether it is the Heiliggeistkirche (Church of the Holy Spirit), the Jesuit district, Germany's oldest Univ. with its Studentenkarzer (Students´Prison), or the other sight-seeing attractions: every place of interest in the Old Town has a unique ambiance and history well worth immersing yourself in for a few minutes. The tour also passes along the Hauptstrasse (Main Street), one of the largest pedestrian zones in Europe.

Many detours into the alleyways of the Old Town confirm once again the truth of the sentence which says "only truly learn about the countryside by taking the back roads."

The excursion takes around 6 hours and includes:

- Bus trip from Karlsruhe (Meeting Point: in front of Building 30.81) to Karlsruhe,
- Guest Guide (language: English),
- 3 hours Walking Tour Old Town, (language: English), Funicular Railway and entrance to castle,
- Free open time (ca. 1 hour),

Price: € 38 per pers. – 50 pers. / bus.

A Wine tasting tour in Affental valley

Affental is located in the district of Baden, Germany's southern most wine-growing region. Here amid the warm climate of the Rhine Vally at the foot of the Black Forest, spring begins early. Warm granite-weathered soil on the steep Black forest precipices and strong loess terrain on the soft foothills are best suited for the cultivation of Pinot Noir and Rieslings.

The excursion takes around 5 hours and includes:

- Bus trip from and to Karlsruhe (Meeting Point: in front of Bld. 30.81),
- Guest Guide (language: English),
- Wine cellar tour (45 min),
- 6 wine type-tastings,

Price: € 37 per pers. - 50 pers. / bus.

6 wine type-tastings:

- Rivaner QbA dry "Primus",
- Riesling QbA "Affentaler Edition",
- Grauer Burgunder Spätlese (Late Harvest) "Primus",
- Pinot Noir Rosé Cabinet "Affentaler Edition",
- Pinot Noir red wine QbA "Monkey bottle",
- Pinot Noir QbA dry red wine "Buddle".

Visit of the Maulbronn Monastery (Unesco World Heritage Site)

Maulbronn Monastery (Kloster Maulbronn) is one of Europe's most complete and best preserved Medieval monastery complexes. It combines a multitude of architectural styles, from Romanesque to late Gothic, in one place – creating a unique atmosphere.

The excursion takes around 4 hours and includes:

- Bus trip from Karlsruhe (Meeting Point: in front of Building 30.81) to Karlsruhe,
- Guest Guide (language: English),
- Monastery tour, 1 hour,
- Opportunity visiting restaurant "Klosterschmiede",
- Opportunity footpath to lake "Tiefensee" (10 min).

Price: € 34 per pers. – 50 pers. / bus.

ZKM (Center for Art and Media) – Tour

Thursday, August 27, 18:00 – 19:00 h

By extending the original duties of a museum, the ZKM has become a cultural Institute unique throughout the world. It is a house for all media and genre, a house for both spatially-based arts, such as painting, photography and sculpture as well as time-based arts, such as film, video, media art, music, dance, theater, and performance. The tour through the ZKM lasts one hour, from 18:00–19:00 h and is included in the conference dinner.

Conference Dinner at ZKM (Center for Art and Media)

Thursday, August 27, 19:00 – 23:00 h

The experienced catering team of "Schloss Eberstein Gourmet Catering" with top chef Bernd Werner is caring about the success of the conference dinner. Hence, a catering with fantastic taste is guaranteed.

Schloss Eberstein Gourmet Catering offers creative cuisine, first-class products, excellent service and a realization at highest level.

Travel

ZKM
Lorenzstraße 19
76135 Karlsruhe

Travel by tram

- Tram line 2 from Karlsruhe "Durlacher Tor" via "Main Train Station" in the direction of "ZKM – Siemensallee" to **tram station ZKM**

ANKA Guided Tour

Friday, August 28, 15:00–17:30 h

Bus trip to KIT Campus North, Meeting Point: in front of Building 30.81 at 15:00 h. Return at about 17:30 h.

Take the opportunity to visit the Synchrotron Radiation Facility ANKA at KIT Campus North. The guided tour consists of an introductory presentation of the main methods, experimental stations and research fields at ANKA. After that, divided groups pass various stations like beamlines or laboratories where ANKA scientists present instrumentations and their applications.