

## Confirmed Invited Speakers

Prof. Dr. Majed Chergui (EPFL)  
Prof. Dr. Akiyoshi Hishikawa (Nagoya University)  
Prof. Dr. Oliver Kühn (Universität Rostock)  
Dr. Dimitrios Manganas (MPI for Chemical Energy Conversion)  
Prof. Dr. Jon P. Marangos (Imperial College London)  
Prof. Dr. Masanari Nagasaka (IMS - Institute for Molecular Science)  
Prof. Dr. Richard James Saykally (Berkeley University)  
Prof. Dr. Albert Stolow (National Research Council Canada)  
Prof. Dr. Jeroen van den Brink (IFW-Dresden)  
Prof. Dr. Josh Vura-Weis (University of Illinois)  
Dr. Lothar Weinhardt (KIT)  
Dr. Bernd Winter (HZB)  
Prof. Dr. Martin Wolf (FHI)  
Dr. Tom Regier (Canadian Light Source Inc.)

## Committees

### Scientific Organizers and Programme Committee

Prof. Dr. Emad Flear Aziz (HZB)  
Prof. Dr. Nobuhiro Kosugi (IMS)  
Prof. Dr. Stephen P. Cramer (UC Davis)  
Dr. Oliver Gessner (UXSL, Lawrence Berkeley National Laboratory)

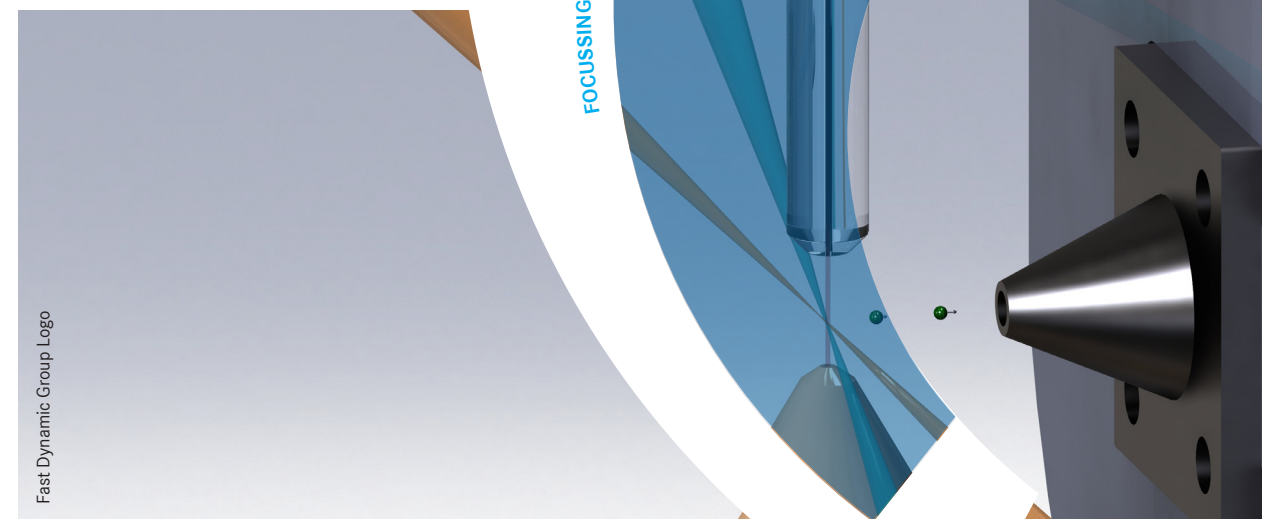
### Local Organizing Committee

Prof. Dr. Emad Flear Aziz (HZB)

## Meeting Venue

Helmholtz-Zentrum Berlin für  
Materialien und Energie GmbH

Albert-Einstein-Strasse 15  
12489 Berlin  
Tel +49 - 30 - 80 62 - 12999



SATELLITE MEETING | XAFS 16



[www.helmholtz-berlin.de](http://www.helmholtz-berlin.de)

## SOFT X-RAY IN ENERGY AND TIME WORKSHOP (SXET)

HZB, BERLIN-ADLERSHOF, GERMANY

20 - 21 AUGUST 2015  
Berlin-Adlershof



## CONTACT

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Further information and updates can be found at  
<http://hz-b.de/sxet>

# SOFT X-RAY IN ENERGY AND TIME (SXET)...

Over the last few years, soft X-ray absorption and emission spectroscopy as well as its resonant processes drove significantly towards the Heisenberg limit (time versus energy limit). Technical and methodological developments for high energy resolution or ultrafast time-resolved approaches allow now to address new scientific questions for solid, liquids, gases and interfaces. The upcoming satellite workshop is intended to report on the current status and new developments in view of these methods and their applications.

HZB kindly invites you to join our workshop on Soft X-ray in Energy and Time in order to start or intensify a dialogue with us about future science and your requirements for successful experiments at our light sources.

Registration Deadline 31<sup>st</sup> May, 2015: <http://hz-b.de/sxetreg>

## Contribute an article to „Structural Dynamics“

We invite all speakers as well as participants of the XAFS16 satellite meeting “Soft X-ray in Energy and Time” (SXET) to contribute an article to the Special Topic Issue of the journal “Structural Dynamics”.

“Structural Dynamics” is a newly launched open-access journal jointly published by AIP Publishing and by the ACA (<http://scitation.aip.org/content/aip/journal/sdy>). It highlights research articles on geometric and electronic structure studies of molecular, biological and condensed matter systems, enabled by the emerging new instruments (e.g. XFELs, high harmonic generation, etc.) and their related new experimental and theoretical methodologies, e.g. RIXS, XES, ultrafast PES, etc.

**Publication fees will be waived for invited speakers.** We expect you to submit your article within a month after the end of the meeting.

Structural Dynamics

## Programme

### 20 August, 2015

First Day - „Energy“	
Registration	08:00-09:00
Welcome	Emad Aziz (HZB) 09:00-09:15
Characterization of the Hydration Structure of Aqueous Carbonic Acid by X-ray Absorption Spectroscopy	Richard James Saykally (Berkeley University) 09:15-10:15
Resonant Inelastic X-ray Scattering on high Tc cuprates and magnetic iridates	Jeroen van den Brink (IFW Dresden) 10:15-11:15
Coffee Break	11:15-11:45
Exploring Topics in Catalysis from a Theoretical Spectroscopic Perspective	Dimitrios Manganas (MPI for Chemical Energy Conversion) 11:45-12:45
Lunch Break	12:45-13:45
Theoretical Soft X-ray Spectroscopy of Transition Metals in Solution	Oliver Kühn (Universität Rostock) 13:45-14:45
Electronic structure and ultra-fast dynamics in liquids and solutions probed by Resonant Inelastic soft X-ray Scattering maps	Lothar Weinhardt (KIT) 14:45-15:45
Coffee Break	15:45-16:15
Soft X-ray absorption spectroscopy of liquid and application to in operando observations	Masanari Nagasaka (IMS) 16:15-17:15
Ultrafast Proton and Electron Dynamics in Core-Level Ionized Aqueous Solution	Bernd Winter (HZB) 17:15-17:55
Measurement of partial fluorescence yields with silicon drift detector arrays	Tom Regier (Canadian Light Source Inc.) 17:55-18:30
Poster Session and Dinner	18:30-20:30

### 21 August, 2015

Second Day - „Time“	
Transient Electronic Structure in Ultrafast Surface Chemistry	Martin Wolf (FHI) 09:15-10:15
Ultrafast core-level spectroscopies of solutions from the VUV to the hard X-ray range	Majed Chergui (EPFL) 10:15-11:15
Coffee Break	11:15-11:45
EUV-NIR two-color photoelectron spectroscopy on isolated atoms and molecules in highly excited states	Akiyoshi Hishikawa (Nagoya University) 11:45-12:45
Lunch Break	12:45-13:45
Tabletop Extreme Ultraviolet Spectroscopy of Organometallic Photophysics	Josh Vura-Weis (University of Illinois) 13:45-14:45
Towards attosecond measurement in molecules and at surfaces	Jon Marangos (Imperial College London) 14:45-15:45
Coffee Break	15:45-16:15
Time-Resolved Molecular Wavepacket Dynamics	A. Stolow (National Research Council Canada) 16:15-17:15
Closing Remarks and End of the Workshop	17:15-18:15

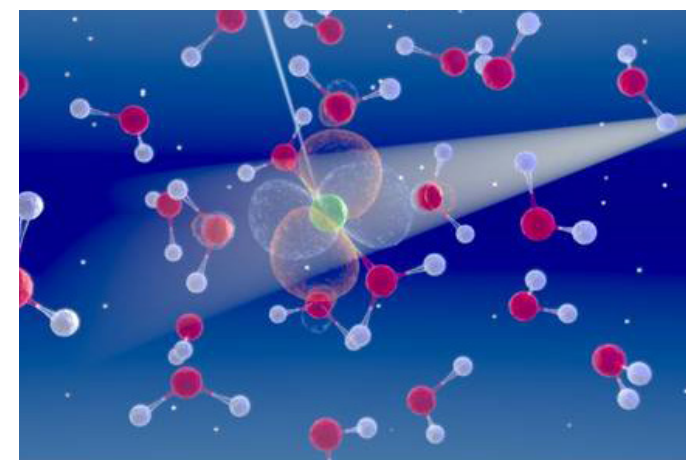


Fig.: Photoelectron Spectroscopy Meets Aqueous Solution / HZB: Thürmer