



**XAS/XES Spring School 2020 on
Advanced Synchrotron Methods: X-ray Absorption
and Emission spectroscopy**



12-14th of May 2020

Lomonosov Moscow State University (LMSU)

Moscow, Russia

Scope: X-ray spectroscopy is one of the demanded technique at the synchrotron light sources and XFELs. LMSU offers a 3 days training course in X-ray absorption and emission spectroscopy (XAS and XES) and related techniques, as high-energy-resolution fluorescence detection (HERFD), Resonant Inelastic X-ray Scattering (RIXS) and X-ray RAMAN/NIXS. The course will gather experienced scientists, active in the field of X-ray absorption and emission spectroscopy, who will share their expertise with MS/PhD students, post-docs and young scientists, interested in learning about the fundamental principles and applications of X-ray spectroscopy methods in their research. The school is also open to senior scientists.

Language: English

Topics:

- Core Level Spectroscopy:
Basics of XAS-EXAFS, XANES, XES, RIXS, HERFD, X-ray RAMAN/NIXS
- Data Analysis and Electronic Structure Theory
- Applications of Advanced Synchrotron Methods in Catalysis, Environmental Science, Nuclear Materials, Biochemistry and Medicine.

Confirmed Speakers:

- Prof. Frank de Groot, Utrecht University, The Netherlands
- Prof. Anatoly Frenkel, Stony Brook University and Brookhaven National Laboratory, USA
- Prof. Sam Shaw, University of Manchester, UK
- Prof. Andrew Berry, Australian National University, Australia
- Prof. Alexander Soldatov, Southern Federal University, Russia
- Prof. Dorota Koziej, Univeristy of Hamburg, Germany
- Prof. Yves Jolly, Institut Néel, France
- Prof. Yan Zubavichus, Boreskov Institute of Catalysis, Russia
- Dr. Peter Glatzel, Dr. Christoph Sahle, Dr. Kiril Lomachenko, The European Synchrotron - ESRF, France
- Dr. Maria do Sameiro Marques Fernandes, Paul Scherrer Institut, The Switzerland
- Dr. Andreas Scheinost, Dr. Lucia Amidani, The Rossendorf Beamline at the ESRF, France and HZDR, Germany
- Dr. Matjaz Kavcic, Jožef Stefan Institute, Slovenia
- Dr. Tonya Vitova, Karlsruhe Institute of Technology and KARA Synchrotron, Germany
- Dr. Philippe Martin, CEA Marcoule, France
- Dr. Dimitrios Magnanas, Max Planck Institut for Kohlenforschung, Germany

Fee: (includes coffee breaks, a get together reception and school dinner)

- 100 EUR for PhD and Master Students (certificate is required)
- 150 EUR for post-docs and senior scientists.

Accommodation: Participants are requested to arrange their accommodation themselves.

Chairs: Prof. Kristina Kvashnina (kristina.kvashnina@esrf.fr)
Prof. Stepan Kalmykov (stepan@radio.chem.msu.ru)

Registration online: <http://www.chem.msu.ru/cgi-bin/synchrotron.pl>

The deadline to submit an application is March 15th, 2020 and accepted participants will be notified by April 6th, 2020