



3rd Workshop on the **Simultaneous Combination of Spectroscopies with X-Ray** Absorption, Diffraction and Scattering Techniques

in Catalysis, Materials, Nanomaterials & Life Sciences

Date & Venue

4 – 6 July 2012 at ETH Zurich, Switzerland

One-day tour of the Swiss Light Source / Paul Scherrer Institute

Scope

This workshop is the 3rd in a series of workshops previously held at the ESRF in 2008 and at SOLEIL in 2010. It is being organized by the Swiss Light Source as a satellite workshop of the 11th International Conference on Synchrotron Radiation Instrumentation (SRI 2012).

The objective of the workshop is to provide an international platform for an in-depth discussion of both the application and instrumentation aspects of the combination of in-situ optical spectroscopy and X-ray methods.

In recent years, many synchrotron-based research fields have seen an increase in applications taking advantage of the complementary information provided by UV/Vis and IR

absorption, fluorescence and Raman spectroscopy.

The main advantages of such a combination are the:

- Gain of complementary information under identical experimental conditions.
- Minimization of systematic errors that result from sequential measurements
- Easier understanding of fast rate processes, detection and manipulation of kinetic intermediates via complementary but independent observations.
- Observation and avoidance of radiation damage effects

The presentations are organized in sessions focused on the different scientific fields where a combination of optical spectroscopies and X-ray methods are currently employed at synchrotron beamlines, namely

- Biological / Pharmaceutical Research
- Catalysis
- Materials / Nanomaterials

The organizers encourage suggestions for sessions dedicated to additional fields such as time-resolved measurements or environmental sciences. Based on the response from the scientific community, additional sessions may be announced.

The sessions will be focused both on instrumentation and on scientific applications. As the field is still new, the focus on instrumentation and inter-disciplinarity is expected to aid the quick adoption of instrumentation advances by the diverse scientific communities.

A poster presentation will be organized, with two poster sessions dedicated to discussions.

The meeting will be accompanied by a vendor exhibition pertinent to the conference topic. Based on previous events, we plan on hosting approximately 100 participants. The participation of students is strongly encouraged.

Hosted by

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Scientific organization committee

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Key Dates

Abstract submission: 16 May 2012

Registration: 11 June 2012