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# Pacificchem 2010



Announcing an upcoming symposium at Pacificchem 2010 in the Topic Area of *Analytical*.

## Analytical Applications and New Technical Developments of Soft X-Ray Spectroscopy (#145)

Organized by: Yasuji Muramatsu

This symposium focuses on analytical applications and the new technical developments in soft X-ray spectroscopy such as X-ray absorption (XAS), X-ray emission (XES), photoemission (PES), and photon-in photon-out scattering techniques (RIXS). The number of analytical applications that use soft X-ray spectroscopy has been exploding in the last years. Analytical applications range from physical/chemical materials such as metals, semiconductors, superconducting materials, ceramics, to energy-related materials, to nano-structured materials to biological materials such as DNA, soft matter, liquids, and include even food and environmentally important materials. On the instrumental side the field of soft X-ray spectroscopy has flourished as well. New developments include liquid cells that allow better understanding liquid systems and a push for either high resolution or ultra-fast measurements. New X-ray sources, optics, and detector systems complement the new technology in soft X-ray spectroscopy and allow rather new analytical approaches such as microspectroscopy, 3D-imaging and time-resolved measurements for dynamical diagnostics. This symposium will bring together analytical and physical chemists, X-ray physicists, and material scientists and showcase the hot topics in soft X-ray spectroscopy.

The symposium features oral sessions in the Hawaii Convention Center (December 18, AM/PM) and poster sessions in the same place. The invited speakers are as follows;

**Joseph Nordgren**, Uppsala Univ. (Sweden); Soft X-ray Resonant Inelastic Scattering - A Selective Probe in Materials Science

**Robert Lamb, Bruce Cowie, and Frank P. Larkins**, Univ. Melbourne (Australia); Recent Soft X-ray Developments at the Australian Synchrotron

**Dennis W. Lindle**, Univ. Nevada Las Vegas (USA); Application of Resonant Inelastic X-ray Scattering (RIXS) to Molecules and Solids

**Masaharu Oshima**, Univ. Tokyo (Japan); Soft X-ray Nano-spectroscopy at SPring-8 University of Tokyo Beamline

**Hisanobu Wakita**, Fukuoka Univ. (Japan); Recent New Soft X-ray Spectrometers Developed for the Analysis of Biochemical Samples

**Abstract submission: January 1st – April 5th, 2010**

All abstracts are submitted through the following WEB link:

[www.pacificchem.org](http://www.pacificchem.org)

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*Promoting scientific exchange in the Pacific basin for a healthy and sustainable future.*

