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Pacifichem 2010



Announcing an upcoming symposium at Pacifichem 2010 in the Topic Area of *Materials & Nanotechnology*.

Synchrotron Radiation: Emerging Techniques and Applications (#104)

Organized by: Tsun-Kong Sham (CSC)

Co-organizers: Lin Chen (ACS), Kiyotaka Asakura (CSJ)

Synchrotron radiation research is rapidly growing with many new techniques emerged and developed during recent years. These techniques have been applied to basic and applied materials science and nanotechnology. In addition to the upgrades of existing synchrotrons, new facilities, including fourth generation light sources, such as free electron lasers, have been planned, constructed and operated in the Pacific Rim countries since Pacifichem 2005. The objective of this symposium is to facilitate information exchange among researchers in the Pacific Rim countries and to discuss future development and applications of synchrotron radiation. We will organize a symposium in three half-day sessions with invited and contributed oral presentations and one poster session. This format has proven very successful in the past. The three oral sessions are (a) New Synchrotron Radiation Facilities/Research in the Pacific Rim Overviews of these synchrotron facilities will be given by invited representatives from new light sources in the Pacific Rim. (b) Emerging Synchrotron Techniques and Applications Many very powerful techniques have emerged or matured and are showing great promises in recent years, such as techniques in the time domain (pump-probe) to study dynamics, microanalysis, XES (X-ray emission spectroscopy), resonant and non-resonant IXS (inelastic X-ray scattering), SAXS (small angle X-ray scattering) and high energy XPS,. Pioneers and experts in the field will be invited to speak. (c) Materials, Industrial and Environmental Applications Maturing synchrotron techniques such as XAFS (X-ray Absorption Fine Structure Spectroscopy), SAXS, imaging and scattering are making big impacts on the titled areas. Experts in these fields will be invited to speak.

Abstract submission for invited and contributed presentation to the Pacifichem 2010 Congress opens on January 1 and closes April 5, 2010 (see: www.pacifichem.org/abstracts). Selected contributed abstracts will be scheduled for oral presentation; all other contributed abstracts will be scheduled for poster presentation

The oral symposium sessions will be held in the Hawaii Convention Center with the following code, session, day, date and time:
• 09.104-1A, (a) Sunday, December 19 (Morning) • 09.104-2P: (b) Sunday, December 19 (Afternoon) • 09.104-3A: (c) Monday, December 20 (Morning). The poster session associated with the symposium will be held in the Hawaii Convention Center

www.pacifichem.org

tsham@uwo.ca

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

