

Workshop I : Applications of Modern Spectroscopic Methods of Inorganic Chemistry to Biology and Chemistry using Synchrotron Radiation

Chair: Sunney I. Chan (陳長謙)

Organizers: Steve Sheng-Fa Yu (俞聖法) & Chih-Wen Pao (包志文)

September 12 (Wednesday)

Place: D260

08:30		Registration
09:00		Workshop Opening Remarks <i>Chun-Jung Chen (陳俊榮) & Jyh-Fu Lee (李志甫), NSRRC (國家同步輻射研究中心) / Sunney I. Chan (陳長謙), Academia Sinica (中央研究院)</i> <i>Session Chair: Sunney I. Chan (陳長謙)</i>
09:10	I1	Vibrational Spectroscopy of Hydrogen-Processing Enzymes using Mössbauer Photons — Why the Fuss About Little Bumps and Squiggles? <i>Stephen Cramer, Univ. of California, Davis, U.S.</i>
10:00		Coffee Break <i>Session Chair: Chih-Wen Pao (包志文)</i>
10:20	I2	<i>In situ</i> and <i>Operando</i> Characterization of Water Oxidation and CO₂ Reduction Reaction Catalysts using Hard X-ray Spectroscopy <i>Junko Yano (矢野淳子), Lawrence Berkeley National Laboratory, U.S.</i>
11:10	I3	EXAFS Mechanistic Studies toward Homogenous Catalysis <i>Aiwen Lei (雷愛文), Wuhan Univ., China</i>
12:00		Exhibitor Presentation ~ 12:15 Agilent Technologies (at D260) Lunch

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13:30 I4 **Mössbauer Spectroscopy using Synchrotron Radiation for Material Sciences**
Satoshi Tsutsui (筒井智嗣), SPring-8, Japan

14:20 I5 **X-ray Absorption and Emission Spectroscopic Study of the Electronic and Geometric Structure of Dinitrosyl Iron Complexes and the Aging-related Diiron Enzyme CLK-1**

Tsai-Te Lu (魯才德), National Tsing Hua Univ. (國立清華大學)

14:55 I6 **Physiological and Molecular Response of *Arabidopsis thaliana* Exposed to Emerging Contaminants Ga, In and Tl**

Kuo-Chen Yeh (葉國楨), Academia Sinica (中央研究院)

15:30 Coffee Break

Session Chair: Jeng-Lung Chen (陳政龍)

15:50 I7 **X-ray Absorption Spectroscopy of Recombinant Alkane Hydroxylase (AlkB) and Rubredoxin-2 (AlkG) from *Pseudomonas putida* GPo1**

Steve Sheng-Fa Yu (俞聖法), Academia Sinica (中央研究院)

16:25 I8 **Quick-scanning X-ray Absorption Spectroscopy Beamline at the Taiwan Photon Source**

Chih-Wen Pao (包志文), NSRRC (國家同步輻射研究中心)

17:00 **Workshop Closing Remarks**

Sunney I. Chan (陳長謙), Academia Sinica (中央研究院)

17:10

18:00 Bus to banquet departs from the Activity Center (Gate 6)

18:30 Banquet

Host: Steve Sheng-Fa Yu (俞聖法)