

**Electrochemistry**  
**Sep. 29 – Sep. 30, 2013**  
**Room C**

Chaired by Tomokazu Matsue (WPI-AIMR, Tohoku Univ.) and Koichi Ui (Iwate Univ.)

**Sep. 29 (Sat.)**

**9:00 – 9:55**    *Bioengineering Based on Electrochemistry* – **Chaired by Hsing-Chang Chang and Matsuhiko Nishizawa** -

29C1    Hsing-Chang Chang (National Cheng Kung University, Taiwan)

“Study on a Rapid Electrochemical Immuno-chip”

29C2    Kosuke Ino (Tohoku University, Japan)

“Electrochemical Imaging for Cell Analysis using a High-density Sensor Array Based on Local Redox Cycling”

**10:00 – 10:55**    *Fuel Cells* – **Chaired by Choong-Gon Lee and Tatsuo Nishina** -

29C3    Choong-Gon Lee (Hanbat National University, Korea)

“Carbon Oxidation in a Direct Carbon Fuel Cell”

29C4    Keiji Yashiro (Tohoku University, Japan)

“Development of Novel Cathode Materials for Low Temperature Solid Oxide Fuel Cells”

**Sep. 30 (Mon.)**

**9:00 – 10:30**    *Lithium Batteries* – **Chaired by AiShui Yu and Hitoshi Yashiro** -

30C1    AiShui Yu (Fudan University, China)

“Lithium-air Batteries: Possible Solution for Next Generation Energy Storage?”

30C2    Yoshihiro Kadoma (Iwate University, Japan)

“Synthesis and Electrochemical Characteristics of Cathode Oxide Materials for Lithium Secondary Batteries”

30C3    Atsushi Unemoto (Tohoku University, Japan)

“Development of Room Temperature Ionic Liquid Based Quasi-solid-state Electrolyte and its Application to All-solid-state Lithium Rechargeable Battery”