(Tentative program: January 23, 2012)

Fuel Cell and Hydrogen Production Symposium: “Alternative Materials and Devices”

[International Hydrogen Energy Development Forum]

（Organized by Kyushu University, AIST, The Solid State Ionics Society of Japan, The SOFC Society of Japan）

Kyushu University Ito Campus, Fukuoka Japan
Monday, 28th January, 2013 (From 10:00 to 19:00)

Time	Events	Topics / Title	Lecturer	Chairperson
10:00-10:20 (20min)	**Session: SOEC and renewable H_2**	**Electrode materials of solid oxide electrolysis cell for efficient hydrogen production**	**Prof. Tatsumi Ishihara** (Department of Applied Chemistry, Faculty of Engineering / I^2CNER / Next-Generation Fuel Cell Research Center, Kyushu University)	Prof. Hiroshige Matsumoto (Inamori Frontier Research Center, Kyushu University)
10:20-10:40 (20min)		**The surface chemistry of oxide electrodes**	**Prof. John A. Kilner** (Imperial College London, UK / I^2CNER, Kyushu University)	Prof. Shintaro Ida (Department of Applied Chemistry, Faculty of Engineering, Kyushu University)
10:40-11:00 (20min)		**Simulation and modeling of the performance of organic photovoltaic devices for hydrogen production**	**Prof. Angus Rockett** (I^2CNER, University of Illinois at Urbana-Champaign)	Prof. Aleksandar T. Staykov (I^2CNER, Kyushu University)
11:00-11:20 (20min)		**Towards solar fuels From highly efficient molecular catalysts to functional devices for light driven water splitting**	**Prof. Licheng Sun** (Solar Energy Conversion at Molecular Level Dalian University of Technology (DUT))	Prof. Ken Sakai (Department of Chemistry, Faculty of Sciences, Kyushu University)
11:20-11:40 (20min)		**Hydrogen production for fuel cell system**	**Dr. Sumittra Charojrochkul** (National Metal and Materials Technology Center (Mtech), Thailand)	Prof. Kohei Ito (Department of Mechanical Engineering, Faculty of Engineering, Kyushu University)
11:40-13:20 (1h 40min)	**Lunch Break and Poster Session**	---	---	---
13:20-13:40 (20min)	**Session: SOFC and PEFC**	**Fuel cell durability: SOFC vs. PEFC**	**Prof. Kazunari Sasaki** (International Research Center for Hydrogen Energy / I^2CNER / Next-Generation Fuel Cell Research Center, Kyushu University)	Prof. Akari Hayashi (International Research Center for Hydrogen Energy, Kyushu University)
13:40-14:00 (20min)		**Ultra-thin film solid oxide fuel cells: Status, challenges, and opportunities**	**Dr. Masaru Tsuchiya** (SiEnergy Systems, LLC, USA)	Prof. Yusuke Shiratori (Department of Mechanical Engineering, Faculty of Engineering, Kyushu University)
14:00-14:20 (20min)		**Nanocarbon-based novel fuel cell catalysts with very high performance**	**Prof. Naotoshi Nakashima** (Department of Applied Chemistry Faculty of Engineering, Kyushu University)	Prof. Tsuyohiko Fujigaya (Department of Applied Chemistry, Faculty of Engineering, Kyushu University)
14:20-14:40 (20min)		**Bio-inspired molecular electrocatalysts for PEFCs**	**Prof. Andrew A. Gewirth** (I^2CNER, University of Illinois at Urbana-Champaign)	Prof. Stephen Lyth (I^2CNER, Kyushu University)
14:40-15:40 (1h)	**Facility Tour**	---	---	---
15:40-16:00 (20min)	**Session: Perspectives**	**DOE’s vision on fuel cells and hydrogen technologies**	**Dr. Monterey Gardiner** (Technology Manager of the Office of Hydrogen Fuel Cells and Infrastructure Technologies of the U. S. DOE)	Prof. Petros Sofronis (I^2CNER, Kyushu University / University of Illinois at Urbana-Champaign)
16:00-16:20 (20min)		**Probing electrochemically active thin films: In-situ optical absorption and impedance spectroscopy measurements**	**Prof. Harry L. Tuller** (Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA / I^2CNER, Kyushu University)	Prof. Sean Bishop (I^2CNER, Kyushu University)
16:20-16:40 (20min)		**Micro-solid oxide fuel cells as power supply for small portable electronic equipment**	**Prof. Ludwig J. Gauckler** (ETH Zurich, Switzerland / I^2CNER, Kyushu University)	Prof. T. Ogura (International Research Center for Hydrogen Energy, Kyushu University)
16:40-17:05 (25min)		**Towards the in-situ characterisation of SOFC electrodes**	**Prof. Nigel Brandon** (Imperial College London, UK)	Prof. Tatsumi Ishihara (Department of Applied Chemistry Faculty of Engineering / I^2CNER / Next-Generation Fuel Cell Research Center, Kyushu University)
17:05-17:30 (25min)		**Future perspectives for solid oxide fuel cells**	**Prof. Subhash C. Singhal** (Director Emeritus, Pacific Northwest National Laboratory, USA / Visiting Prof. Kyushu University)	Prof. Kazunari Sasaki (International Research Center for Hydrogen Energy / I^2CNER / Next-Generation Fuel Cell Research Center, Kyushu University)
17:40-19:00 (1h 20min)	**Reception**	---	---	---