

International Fuel Cell Workshop 2012

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H. Kim Daegu Gyeongbuk Institute of Science & Technology, Korea
H. Gasteiger Technical University of Munich, Germany
D. Jones University of Montpellier, France
M. Hickner The Pennsylvania State University, USA
H. Nishide Waseda University, Japan

Secretary-general

- T. Omata** University of Yamanashi, Japan

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Fuel Cell Cutting-Edge Research Center Technology Research Association(FC-Cubic)
Fuel Cell Commercialization Conference of Japan(FCCJ)
Fuel Cell Development Information Center(FCDIC)
The Yamanashi Academy of Sciences

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Invited oral presentations

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K. Sasaki (Brookhaven NL., USA)
- 2) Electrocatalysis at Ultra-Low Loading Electrodes
A. Kucernak (Imperial College London, UK)
- 3) Theoretical and Experimental Studies of Hydrogen and Oxygen Electrocatalysis on Platinum
S. L. Chen (Wuhan Univ., China)
- 4) Nano-Scale Morphology and Conductivity of Ionomer Blends
S. Holdcroft (Simon Fraser Univ., Canada)
- 5) R&D for Improvement on Perfluorinated Membrane and Ionomer Dispersion for Polymer Electrolyte Fuel Cells
N. Miyake (Asahi Kasei E-materials Co., Japan)
- 6) Looking to the Future and Assuming Success - Are current approaches for MEA electrocatalyst and membrane integration on a path to meet cost and high volume manufacturing requirements for automotive PEM Fuel Cells?
M. K. Debe (3M Company, USA)
- 7) MEA Analysis on Different Length Scales: From Centimeters to Nanometers
T. J. Schmidt (Paul Scherrer Inst., Switzerland)
- 8) Toyota's FCV Development and Initial Market Creation
S. Miura (Toyota Motor Corp., Japan)
- 9) The Materials Challenges in PEMFC for Automotive Applications
S. A. Campbell (Automotive Fuel Cell Cooperation Corp., Canada)
- 10) Development of Advanced Materials and Devices for Cost Reduction of PEFC CHP System
H. Ohara (Panasonic Corp., Japan)
- 11) Anion Conductive Materials for Polymer Electrolyte Fuel Cells - Current State and Issues -
K. Fukuta (Tokuyama Corp., Japan)
- 12) Challenge of Transitioning to Non Noble Metal Electrocatalysts for Energy Storage and Conversion
S. Mukerjee (Northeastern Univ., USA)

Poster presentations

- 1) PEFC Evaluation Project in Japan
A. Daimaru, Y. Oono, K. Kobayashi, and M. Hori (Daido University, Japan)
- 2) Structural Features of Multi-Walled Carbon Nanotubes for Polymer Electrolyte Fuel Cells
T. Hashishin, Z. Meng, S. Kitamura, R. Yamamoto, N. Hamaguchi, J. Tamaki, and K. Kojima (Osaka University & Ritsumeikan University, Japan)
- 3) Durability of an MEA of Polymer Electrolyte Fuel Cells for Automotive Application: Start/Stop Cycle and Load Cycle Tests
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- 7) Effect of Platinum Loading on the Cathode Performance using Hydrocarbon Ionomers
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Exhibitions with poster presentations

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- 2) Channel Flow Double Electrode Cell System
Multi-Channel Flow Double Electrode Cell System
Eiwa Corp., Japan
- 3) HIGHLY SULFONATED AROMATIC POLYMERS AS PROTON EXCHANGE MEMBRANES
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BEL Japan, Inc.
- 5) Material studio solution for Fuel Cell
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Test run and demonstration of fuel cell vehicles

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Toyota Motor Corp., Japan
- 2) Nissan X-TRAIL FCV
Nissan Motor CO., Ltd., Japan
- 3) HONDA FCX CLARITY
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