

Hydrogen And Fuel Cell Conference 2013

Day 1 – Friday 12th July 2013

14.00 - 16.00	Registration	
16:10 - 16:20	Welcome & Introductions	
Session 1 Chairman – Bruno G Pollet		
16:20 - 17:00	Cordellia Sita	TBC
17:00 - 17:20	Anima Bose	Remarkable Performance Enhancement of Polymer Electrolyte Membrane Fuel Cells (PEMFCs) by Creating Modified Electrode with Phosphotungstic Acid.
17:20 - 17:40	Cecil Felix .	Gas Diffusion Electrode Development by an Electrophoretic Deposition Technique for High Temperature PEMFC Applications
17:40 - 18:00	Frantisek Marsik	Role of Water Diffusivity in PEM for the Hydrogen Fuel Cell Efficiency
18:00 - 18:20	Sung Lin Li	Hydrogen generation from the hydrolysis of as-cast Mg–Mg ₂ Ni eutectic alloy
18:20 - 18:50	Kenji Miyatake	Effect of Phosphine Oxide Groups on the Properties of Proton Conductive Aromatic Ionomer Membranes
19:00 - 19:30	Networking	
19.30	Dinner And Free Time	

Day 2 – Saturday 13th July 2013

Session 2 Chairman: Cordellia Sita		
08:20 - 09:00	Shanna Knights	TBC
09:00 - 09:30	Xianguo Li	TBC
09:30 - 09:50	Gaby Ciccarelli	Explosion Phenomenon in a Congested Confinement
09:50 - 10:10	Hsun-Yi Chen	Simulation of Nickel Coarsening in Three-Phase Solid Oxide Fuel Cell Anodes

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Day 2 – Saturday 13th July 2013 - continued

10:10 - 10:30 Coffee Break

Session 3 Chairman: Shanna Knights

10:30 – 11:10 Patrick Hallebeck Microbial Paths to Renewable Hydrogen

11:10 – 11:40 Timothy J. Mays TBC

11:40 – 12:00 Susan Schoenung IEA HIA Global Hydrogen Systems Analysis

12:00 – 12:20 Kyle Lange Model Order Reduction for PEM Fuel Cells

12:30 – 16:40 Lunch & Free Time

Session 4 Chairman: Patrick Hallebeck

16:50 - 17:30 Steven Holdcroft Interfacial and Internal Water Transport through PFSA and Hydrocarbon Ionomer Membranes

17:30 - 18:00 Sivakumar Pasupathi High Performance and Durable Membrane Electrode Assemblies for High Temperature PEMFCs

18:00 - 18:20 Rui Chen A Generic Electrical Circuit for Electrochemical Impedance Spectroscopy Analysis of Fuel Cell Cathode Catalyst Layer

18:20 - 18:40 Christoph Noack Characterization of PBI-Based HTPEM Fuel Cells under Stationary and Dynamic Conditions and Direct usage of Dimethyl Ether as Fuel

18:45 - 20:00 Poster Session & Drinks

Day 3 - Sunday 14th July 2013

Session 5 Chairman: Steven Holdcroft

08:20 – 09:00 Vladimir Molkov Towards Inherently Safer Use of Hydrogen Indoors

09:00 – 09:30 Piotr Zelenay TBC

09:30 – 09:50 Ken Ming Yin Pseudo-Phase Equilibrium Approach for the Water Management on the Proton Exchange Membrane Fuel Cell

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Day 3 - Sunday 14th July 2013 - continued

09:50 – 10:10	Quentin Meyer	Advanced Diagnosis for Proton Exchange Membrane Fuel Cell Stacks
10:10 – 10:30	Coffee Break	
Session 6 Chairman: Vladimir Molkov		
10:30 – 11:10	Ned Djilali	Transport in PEMFC Catalyst Layers: Characterization, Reconstruction and Pore Scale Modelling
11:10 – 11:40	Soren Juhl Andreasen	Control of a Methanol Reformer System for a High Temperature PEM Fuel Cell Stack using Adaptive Neuro-Fuzzy Inference System Strategy
11:40 – 12:00	Maher Salloum	Continuum and Particle Scale Models of Uranium Hydride Decomposition Kinetics
12:00 – 12:20	Maren Stommel	Pilot-Scale Production of Bio-Hydrogen and Methane using Dark Fermentation
12:30 – 16:50	Lunch & Excursion	
Session 7 Chairman: Ned Djilali		
16:50 – 17:30	Pei Kang Shen	Next generation electrocatalytic materials for fuel cells
17:30 – 18:00	Jon Pharoah	Thermal Conductivity of MPL and corresponding Temperature Profiles for the PEMFC
18:00 – 18:20	Younes Ansari	Siphoric Acid Fuel Cells: Liquid and Solid Electrolytes
18:20 – 19:00	Coffee Break	
Session 8 Chairman: Pei Kang Shen		
19:00 – 19:40	Brant A. Peppley	TBC
19:40 – 20:00	Wendelin Waiblinger	System Aspects of High Temperature PEFC Supplied with Hydrogen from Methanol-Steam Reforming
20:00 – 20:20	Prem Kumar Seelam	Renewable Hydrogen from Ethanol Reforming at Mild Temperature over Ni Supported ZSM-5 Catalysts
20:30	Gala Dinner	

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Day 4 - Monday 15th July 2014

Session 9 Chairman: Brant A. Peppley

8:20 – 9:00	Dimitrios Papageorgopoulos	Overview of DOE EERE's Fuel Cell Research and Development Efforts
9:00 – 9:30	John Jostins	Prospects for a new mobility: Microcab H2EV fuel cell technical developments 2013
9:30 – 9:50	Syarah Febriani	Control of Methanol Reformer System Using PID Controller to Generate Hydrogen for Fuel Cell Application
9:50 – 10:10	Feraih Alenzay	Utilizing periodic cycling technique in methane dry reforming in order to enhance the hydrogen production yield as a major feedstock for fuel cells technologies
10:10 – 10:30	Coffee Break	

Session 10 Chairman: TBC

10:30 – 11:10	Bruno G. Pollet	TBC
11:10 – 11:40	Javier Giorgi	Ultrathin Nafion films: structure, function and degradation
11:40 – 12:00	TBC	TBC
12:00 – 12:20	TBC	TBC
12:20 – 14:20	Lunch & Free Time	

Session 11 Chairman: Dimitrios Papageorgopoulos

14:20 – 15:00	TBC	TBC
15:00 – 15:30	Ben Bladergroen	A Critical Review and Perspective on Electroless Plated Palladium-based Membranes
15:30 – 15:50	TBC	TBC
15:50 – 16:10	TBC	TBC
16:10 – 16:30	Pollet & Peppley	Close
16.30	Optional Tour / Wine Tasting	

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