Fuel Cell Projects Kickoff Meeting

Agenda

February 13, 2007

9:00	Welcome and Program Overview	Pat Davis Nancy Garland
Membranes		
9:20	Membranes and MEA's for Dry, Hot Operating Conditions	S. Hamrock, 3M
9:40	New Polyelectrolyte Materials for High Temperature Fuel Cells	J. Kerr, LBNL
10:00	The Design of Novel Materials Consisting of a Semi-Interpenetrating Network of PVDF and a Sulfonated Polyelectrolyte	M. Foure, Arkema
10:20	Break	
Water Transport Studies		
10:50	Visualization of Fuel Cell Water Transport and Performance Characterization under Freezing Conditions	S. Kandlikar, RIT
11:10	Water Transport in PEM Fuel Cells: Advanced Modeling, Material Selection, testing, and Design Characterization Research	V. Cole, CFD
11:30	Subfreezing Start/Stop Protocol for an Advanced Metallic Open-Flowfield Fuel Cell Stack	J. Cross, Nuvera
11:50	Water Transport Within the Stack: Water Transport Exploratory Studies	R. Borup, LANL
12:10	Lunch	
Catalyst Development		
1:30	Advanced Cathode Catalysts and Supports for PEM Fuel Cells	M. Debe, 3M
1:50	Highly Dispersed Alloy Cathode Catalyst for Durability	T. Jarvi, UTCFC
2:10	Advanced Cathode Catalysts	P. Zelenay, LANL
2:30	Non-Platinum Cathode Electrocatalyst based on Bimetallic Base Metal-Noble Metal Systems	D. Myers, ANL
2:50	Development of Alternative and Durable High Performance Cathode Supports for PEM Fuel Cells	Y. Wang, PNNL
3:10	Break	

Innovative Fuel Cell Concepts

3:40	Aligned Carbon Nanotube-Based MEA and PEMFC	D-J Liu, ANL
4:00	Light Weight Low Cost PEM Fuel Cell Stacks	J. Wainright, CWRU
4:20	Adaptive Stack with Subdivided Cells for Improved Stability, Reliability, and Durability Under Automotive Load Cycle	B. Du, Plug Power
4:40	Low-Cost Manufacturable Microchannel Systems for Passive PEM Water Management	S. Stenkamp, PNNL

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Cell Hardware

8:30	Next Generation Bipolar Plates for Automotive PEM Fuel Cells	O. Adrianowycz, GrafTech
8:50	Nitrided Metallic Bipolar Plates	P. Tortorelli, ORNL
9:10	Low Cost Durable Seals	G. Roberts, UTCPower

Reporting Requirements

9:30		Golden Field Office

9:40 Break

Impurity Studies

10:00	Effects of Impurities on Fuel Cell Performance and Durability	T. Molter, U. Conn
10:20	Effects of Impurities on Fuel Cell Performance and Durability	J. Goodwin, Clemson
10:40	Effects of Impurities on Fuel Cell Performance and Durability	F. Garzon, LANL

Demonstrations

11:00	International Stationary Fuel Cell Demonstration	J. Vogel, Plug Power
11:20	Development and Demonstration of a New Generation High Efficiency 2 kW Combined Heat and Power Unit	K. Durai-Swamy, Intelligent Energy
11:40	Intergovernmental Stationary Fuel Cell System Demonstration	M. Parsons, Plug Power