Fuel Cell Projects Kickoff Meeting

Agenda

September 30th, 2009

1:00	Opening Remarks	Henry Kelly
1:10	Program Overview	Sunita Satyapal Dimitrios Papageorgopoulos
1:30	Reporting Requirements	Dave Peterson
Catalysts		
1:40	Nanosegregated Cathode Catalysts with Ultra-Low Platinum Content	Nenad Markovic, ANL
2:00	Extended, Continuous Pt Nanostructures in Thick, Dispersed Electrodes	Bryan Pivovar, NREL
2:20	Contiguous Monolayer Oxygen Reduction Electrocatalysts on High-Stability-Low-Cost Supports	Radoslav Adzic, BNL
2:40	The Science and Engineering of Durable Ultralow PGM Catalysts	Fernando Garzon, LANL (Brosha)
3:00	Molecular-scale, Three-dimensional Non-Platinum Group Metal Electrodes for Catalysis of Fuel Cell Reactions	John Kerr, LBNL (Weber/Zelenay)
3:20	Durable Catalysts For Fuel Cell Protection During Transient Conditions	Radoslav Atanasoski, 3M
3:40	Break	
Transport	t	
4:10	Transport Studies Enabling Efficiency Optimization of Cost-Competitive Fuel Cell Stacks	James Cross, Nuvera
4:30	Fuel Cell Fundamentals at Low and Subzero Temperatures	Adam Weber, LBNL
4:50	Development and Validation of a Two-phase, Three- dimensional Model for PEM Fuel Cells	Ken Chen, SNL
5:10	Air-Cooled Stack Freeze Tolerance	Mike Parsons, Plug Power
5:30	Transport Studies and Modeling in PEM Fuel Cells	Cortney Mittelsteadt, Giner

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Durabil	ity	
8:30	Durability Improvements Through Degradation Mechanism Studies	Rod Borup, LANL
8:50	Polymer Electrolyte Fuel Cell Lifetime Limitations: The Role of Electrocatalyst Degradation	Debbie Myers, ANL
9:10	Development of Micro-Structural Mitigation Strategies for PEM Fuel Cells: Morphological Simulation and Experimental Approaches	Silvia Wessel, Ballard
9:30	Durability of Low Pt Fuel Cells Operated at High Power Density	James Cross, Nuvera
9:50	Break	
10:20 10:40	Improved AST's Based on Real World FCV Data Accelerated Testing Validation	Tom Madden, UTC Rangachary Mukundan, LANL
11:00	Effect of System and Air Contaminants on PEMFC Performance and Durability	Huyen Dinh, NREL
11:20	The Effect of Airborne Contaminants on Fuel Cell Performance and Durability	Rick Rocheleau, University of Hawaii
11:40	Lunch	
Innovat	ive Concepts	
1:00	Engineered Nano-scale Ceramic Supports for PEMFCs	Eric Brosha, LANL
1:20	Metallic Bipolar Plates with Composite Coatings	Jennifer Mawdsley, ANL
1:40	Resonance-Stabilized Anion Exchange Polymer Electrolytes	Yu Seung Kim, LANL
2:00	Low Cost PEM Fuel Cell Metal Bipolar Plates	Conghua Wang, TreadStone Technologies
2:20	Advanced Materials for Reversible SOFC Dual Mode Operation with Low Degradation	Randy Petri, Versa Power Systems
2:40	Materials & Modules for Low-Cost, High Performance Fuel Cell Humidifiers	Will Johnson, W. L. Gore & Associates
3:00	Break	
Portabl	e Power	
3:30	Novel Approach to Advanced DMFC Anode Catalysts	Tom Gennett, NREL
3:50	Novel Materials for High Efficiency DMFCs	Chris Roger, Arkema
4:10	New MEA Materials for Improved DMFC Performance, Durability & Cost	Philip Cox, PolyFuel