

Fuel Cells Symposium 2016

Held at the 33rd Annual International
Battery Seminar & Exhibit 2016

Fort Lauderdale, Florida, USA
24 March 2016

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CO-LOCATED EVENT SYMPOSIUM 2: MARCH 24, 2016

Knowledge Foundation's 16th International

FUEL CELLS

Next Generation Fuel Cells for Commercial, Military & Industrial Applications

7:30 am Symposium Registration and Morning Coffee

8:00 Organizer's Opening Remarks

Craig Wohlers, Executive Director, Conferences, Cambridge EnerTech

8:05 Chairperson's Opening Remarks

Allison Fisher, Ph.D., Visiting Professor, University of Central Florida

8:10 Featured Presentation: Fuel Cell and Hydrogen Energy - The Future is Now 1

Morry Markowitz, President, Fuel Cell & Hydrogen Energy Association

FUEL CELLS MATERIALS, DESIGN & MODELING

8:40 Novel Anion Exchange Membranes for Hydrogen and Hydrazine Alkaline Fuel Cells N/A

Kenji Miyatake, Ph.D., Professor, Clean Energy Research Center, University of Yamanashi, Japan

9:10 Advances in MEA Development: Automotive Application, Low PGM, Durability, Materials by Design Approach 10

Madeleine Odgaard, CEO, IRD Fuel Cells, LLC, Denmark

9:40 Coffee Break with Poster Viewing

ADVANCED FUELS AND INNOVATIVE APPROACHES

10:40 An Appreciation of Solid Hydrogen Storage and Release 24

Allison Fisher, Ph.D., Visiting Professor, University of Central Florida

11:10 Enjoy Lunch on Your Own

ADVANCED FUEL CELLS FOR TRANSPORTATION APPLICATIONS

1:20 pm Chairperson's Remarks

Andrew Burke, Ph.D., Institute of Transportation Studies, University of California, Davis

1:25 Development of Heavy Duty Fuel Cell Modules for Mass Transport Applications N/A

Mauricio Blanco, Ph.D., Research Engineer, Strategic Technology Planner, Ballard Power Systems

1:55 Natural Gas as a Bridge to Hydrogen Fuel Cell Light-Duty Vehicles 32

Andrew Burke, Ph.D., Institute of Transportation Studies, University of California, Davis

2:25 Fuel Cells for Unmanned Systems Propulsion 41

James C. Sisco, Ph.D., Principal Engineer, Protonex Technology Corporation

2:55 Refreshment Break with Poster Viewing

3:30 Methanol Vapor Fuel Cell for Optimum Light Weight Power 47

Walt Robb, Ph.D., CEO, MeOH Power

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- 4:00 **Fuel Cell and Battery Hybrid for Energy Storage - Battery for Rapid Response and Fuel Cells for Range Extension for Storage** 55
Pinakin Patel, Director, Research & Special Systems, FuelCell Energy, Inc.
- 4:30 **Fuel Cells for Industrial Vehicles** 68
Gus Block, Director, Nuvera Fuel Cells
- 5:00 **Close of Symposium & Close of International Battery Seminar & Exhibit**