

National Fuel Cell Symposium

Resiliency, High-Efficiency, Zero Emission

Wednesday, June 27, 2018

California Museum, Sacramento

8:30 AM **Welcoming Remarks**

- Scott Samuelsen – *Director, National Fuel Cell Research Center*

8:45 AM **Setting the Stage: Grid Reliability and Resiliency**

- California Regulatory Perspective
Janea Scott – *Commissioner, California Energy Commission*

9:15 AM **State of the Art: Stationary Fuel Cell Manufacturers**

- Jack Brouwer – *Moderator, Associate Director, National Fuel Cell Research Center*
 - Alan Mace – *HD Market Manager, Ballard Power Systems*
 - Asim Hussain – *Vice President for Marketing, Bloom Energy*
 - Derek Hildreth – *Head of Business Development, Doosan Fuel Cell America*
 - Tony Leo – *Vice President for Advanced Technology, FuelCell Energy*

10:30 AM *Break*

11:00 AM **Setting the Stage: Meeting California Goals**

- Jack Brouwer – *Moderator*
 - Wayne Nastro – *Executive Officer, South Coast Air Quality Management District*
 - Cliff Rechtschaffen – *Commissioner, California Public Utility Commission*

12:00 PM *Lunch*

1:00 PM **Setting the Stage: Evolution of the Grid**

- Scott Samuelsen – *Director – National Fuel Cell Research Center*

1:30 PM **Fuel Cell Application: Solid Oxide Fuel Cell Technology**

- Bloom Energy Product
- 1MW Hospital Deployment
- *Kaiser Permanente*

2:00 PM **Fuel Cell Application: Molten Carbonate Fuel Cell Technology**

- FuelCell Energy Product
- 1.4MW Water Resource Recovery Facility Deployment
- Ernest P. Marquez, Jr., *Principal Engineer, City of Riverside Public Works*

2:30 PM *Break*

3:00 PM **Fuel Cell Application: Proton Exchange Membrane Fuel Cell Technology**

- Ballard Power Systems Product
- Application of Stationary Fuel Cell Technology to Mobile Systems
- Alan Mace, *HD Market Manager, Ballard Power Systems*

3:30 PM **Fuel Cell Application: Phosphoric Acid Fuel Cell Technology**

- Doosan Fuel Cell American Product
- 840kW and 880kW Hotel and University Deployments
- Ken Frisbie, *Managing Director, BioFuels Energy, LLC.*

4:00 PM **Setting the Stage: Planning Strategically for the Future**

- Peter Klauer – *Smart Grid Technologies and Strategy, California ISO*

4:30 PM **Summary**

- Scott Samuelsen – *Director – National Fuel Cell Research Center*