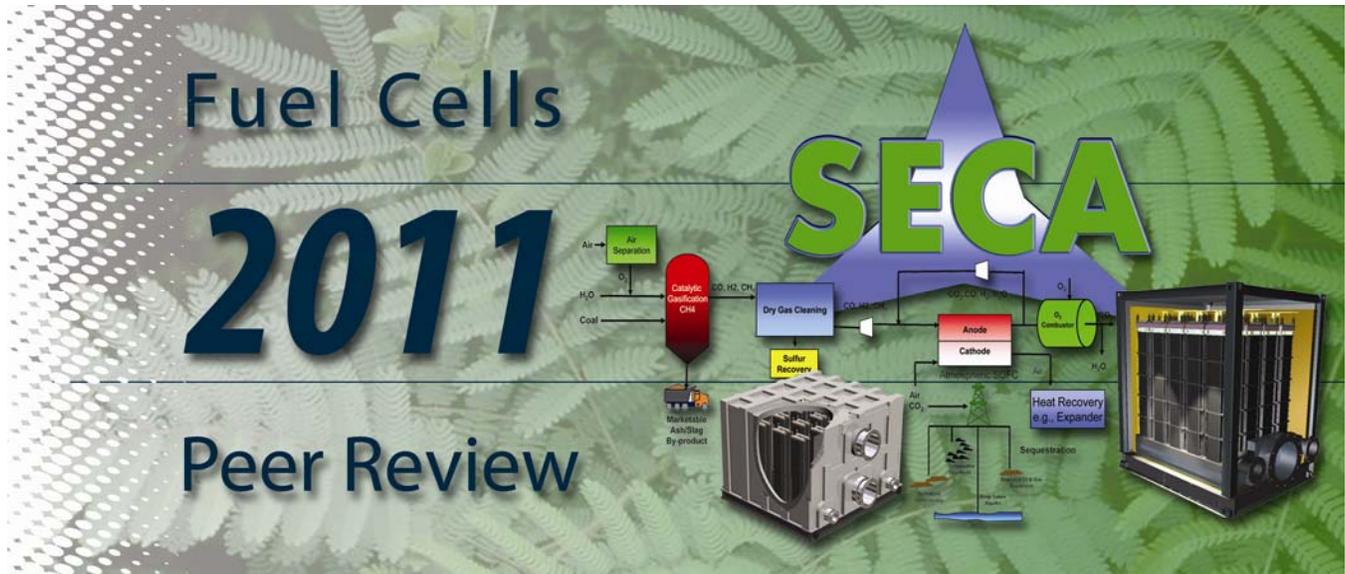


FY11 Fuel Cells Peer Review



**Waterfront Place Hotel
Morgantown, WV
February 14-18, 2011**

AGENDA

Monday, February 14, 2011 – Salon D

- 7:00 – 7:30 a.m. **Registration – Foyer D**
- 7:30 – 8:30 a.m. **Peer Review Panel Kick Off Meeting – Open to NETL and ASME staff only**
- Review of ASME Process – Michael Tinkleman/Ross Brindle, ASME
 - Role of Panel Chair – James Sorensen, ASME
 - Role of NETL – José Figueroa, National Energy Technology Laboratory (NETL)
 - Meeting logistics/completion of forms – Justin Strock/Nicole Ryan, IBM
- 8:30 – 9:15 a.m. **Overview – Open to NETL and ASME staff only**
- Fuel Cells Technology Manager – Shailesh Vora, National Energy Technology Laboratory (NETL)
- 9:15 – 9:30 a.m. **BREAK**
- 9:30 – 11:30 a.m. **01 - Project # NT0003894 – SECA Coal-Based Systems - UTC Power – Thomas Skiba, UTC Power Corporation**
- 11:30 – 12:30 p.m. Q&A
- 12:30 – 1:10 p.m. Discussion, evaluation, and written comments
- 1:10 – 2:10 p.m. **Lunch (on your own)**
- 2:10 – 2:55 p.m. **02 - Project # FE0000528– Techno-Economic Analysis of Scalable Coal-Based Fuel Cells – Steven S.C. Chuang and Felipe Guzman, The University of Akron**
- 2:55 – 3:35 p.m. Q&A
- 3:35 – 4:05 p.m. Discussion, evaluation, and written comments

Monday, February 14, 2011 – Salon D

- 4:05 – 4:20 p.m. **BREAK**
- 4:20 – 5:05 p.m. **03 - Project # DE-FE0004001.410.01.13and29** – Analysis of Integrated Gasification Fuel Cell (IGFC) Plant Configurations –
Kristin Gerdes, National Energy Technology Laboratory (NETL)
Dale Keairns, Booz Allen Hamilton (BAH)
- 5:05 – 5:45 p.m. Q&A
- 5:45 – 6:15 p.m. Discussion, evaluation, and written comments

Tuesday, February 15, 2011 – Salon D

- 7:00 – 7:30 a.m. **Registration – Foyer D**
- 7:30 – 9:30 a.m. **04 - Project # NT41837** – SECA Coal-Based Systems - FuelCell Energy –
Hossein Ghezel-Ayagh, FuelCell Energy, Inc. (FCE)
- 9:30 – 10:30 a.m. Q&A
- 10:30 – 11:10 a.m. Discussion, evaluation, and written comments
- 11:10 – 11:25 a.m. **BREAK**
- 11:25 – 12:10 p.m. **05 - Project # NT0004113** – Validation of Novel Planar Cell Design for Megawatt-Scale SOFC Power Systems –
Michael J. Day and Scott Swartz, NexTech Materials, Ltd.
- 12:10 – 12:50 p.m. Q&A
- 12:50 – 1:20 p.m. Discussion, evaluation, and written comments
- 1:20 – 2:20 p.m. **Lunch (on your own)**
- 2:20 – 3:05 p.m. **06 - Project # NT0005177** – Viscous Glass/Composite SOFC Sealants –
Scott Mixture, Alfred University
- 3:05 – 3:45 p.m. Q&A
- 3:45 – 4:15 p.m. Discussion, evaluation, and written comments
- 4:15 – 4:30 p.m. **BREAK**
- 4:30 – 5:15 p.m. **07 - Project # FE0000982** – Improved Flow Field Structures for Direct Methanol Fuel Cells –
Bogdan Gurau, NuVant Systems Inc.
- 5:15 – 5:55 p.m. Q&A
- 5:55 – 6:25 p.m. Discussion, evaluation, and written comments

Wednesday, February 16, 2011 – Salon D

- 7:00 – 7:30 a.m. **Registration – Foyer D**
- 7:30 – 9:30 a.m. **08 - Project # FE0000303** – SECA Coal-Based Systems - Rolls-Royce –
Richard Goettler, Rolls-Royce Fuel Cells Systems Inc. (US)
- 9:30 – 10:30 a.m. Q&A
- 10:30 – 11:10 a.m. Discussion, evaluation, and written comments

Wednesday, February 16, 2011 – Salon D

- 11:10 – 11:25 a.m. **BREAK**
- 11:25 – 12:10 p.m. **09 - Project # FE0000773** – Rolls-Royce Solid Oxide Fuel Cell (SOFC) Model Development –
Ben Haberman and Carlos Martinez-Baca, Rolls-Royce Fuel Cells Systems Inc. (US)
- 12:10 – 12:50 p.m. Q&A
- 12:50 – 1:20 p.m. Discussion, evaluation, and written comments
- 1:20 – 2:20 p.m. **Lunch (on your own)**
- 2:20 – 3:05 p.m. **10 - Project # NT0004104** – Solid Oxide Fuel Cell Cathodes: Unraveling the Relationship
Between Structure, Surface Chemistry & Oxygen Reduction –
Srikanth Gopalan, Trustees of Boston University
- 3:05 – 3:45 p.m. Q&A
- 3:45 – 4:15 p.m. Discussion, evaluation, and written comments
- 4:15 – 4:30 p.m. **BREAK**
- 4:30 – 5:15 p.m. **11 - Project # NT0004105** – Investigation of Cathode Electrocatalytic Activity using Surfaced
Engineered Thin Film Samples and High Temperature Property Measurements –
Paul Salvador, Carnegie Mellon University
- 5:15 – 5:55 p.m. Q&A
- 5:55 – 6:25 p.m. Discussion, evaluation, and written comments

Thursday, February 17, 2011 – Salon D

- 7:00 – 7:30 a.m. **Registration – Foyer D**
- 7:30 – 8:15 a.m. **12 - Project # FWP-40552 (Task 1)** – SECA Core Technology Program: Task 1 - SOFC
Component Development –
Jeffrey W. Stevenson, Pacific Northwest National Laboratory (PNNL)
- 8:15 – 8:55 a.m. Q&A
- 8:55 – 9:25 a.m. Discussion, evaluation, and written comments
- 9:25 – 9:40 a.m. **BREAK**
- 9:40 – 10:25 a.m. **13 - Project # FY10.MSE.1610248.621** – Solid Oxide Fuel Cell Research and Development:
Impact of Minor Species from Coal Syngas on SOFC Performance –
Kirk Gerdes, National Energy Technology Laboratory (NETL)
- 10:25 – 11:05 a.m. Q&A
- 11:05 – 11:35 a.m. Discussion, evaluation, and written comments
- 11:35 – 12:35 p.m. **Lunch (on your own)**
- 12:35 – 1:20 p.m. **14 - Project # NT0006557** – Theory, Investigation and Stability of Cathode Electrocatalytic
Activity –
Meilin Liu, Georgia Tech Research Corporation
- 1:20 – 2:00 p.m. Q&A
- 2:00 – 2:30 p.m. Discussion, evaluation, and written comments

Thursday, February 17, 2011 – Salon D

- 2:30 – 2:45 p.m. **BREAK**
- 2:45 – 3:30 p.m. **15 - Project # FEAA066** – Reliability of Materials and Components for Solid Oxide Fuel Cells –
Edgar Lara-Curzio and Amit Shyam, Oak Ridge National Laboratory (ORNL)
- 3:30 – 4:10 p.m. Q&A
- 4:10 – 4:40 p.m. Discussion, evaluation, and written comments

Friday, February 18, 2011 – Salon D

- 7:00 – 7:30 a.m. **Registration – Foyer D**
- 7:30 – 8:15 a.m. **16 - Project # NT0004117** – Chemistry of SOFC Cathode Surfaces: Fundamental Investigation
and Tailoring of Electronic Behavior –
Bilge Yildiz, Massachusetts Institute of Technology
Clemens Heske, University of Nevada, Las Vegas
- 8:15 – 8:55 a.m. Q&A
- 8:55 – 9:25 a.m. Discussion, evaluation, and written comments
- 9:25 – 9:40 a.m. **BREAK**
- 9:40 – 10:25 a.m. **17 - Project # FE0005132** – Small Scale SOFC Demonstration using Bio-based and Fossil Fuels –
Michael Petrik, Technology Management, Inc.
- 10:25 – 11:05 a.m. Q&A
- 11:05 – 11:35 a.m. Discussion, evaluation, and written comments
- 11:35 – 11:50 a.m. **BREAK**
- 11:50 – 1:15 p.m. **Meeting Wrap-up Session**

