

# **FEBRUARY 8, 2016 DRAFT VERSION**

## **AGENDA**

**FY16 Solid Oxide Fuel Cells Program Peer Review – April 25-26, 2016**  
**FY16 Turbines Program Peer Review – April 27-29, 2016**  
**Sheraton Pittsburgh Hotel at Station Square**  
**Pittsburgh, Pennsylvania, USA**

### **Monday, April 25, 2016 – Ellwood Room (Solid Oxide Fuel Cells Program)**

- 7:00 – 8:00 a.m.      **Registration – 2<sup>nd</sup> Floor Foyer**
- 8:00 – 8:30 a.m.      **Peer Review Panel Kickoff Session – Solid Oxide Fuel Cells**  
Open to National Energy Technology Laboratory (NETL) and ASM International staff only
- ASM International Welcome
  - Role of Panel Chair
  - Technology Manager / Division Director, Office of Program Performance & Benefits (OPPB) and Panel Question and Answer
  - Peer Review Process and Meeting Logistics
- 8:30 – 9:00 a.m.      **01 – Project # FWP-2012.03.04 – NETL-RUA Fuel Cells Initiative**  
*Gregory Hackett – National Energy Technology Laboratory (NETL-ORD)*
- 9:00 – 9:45 a.m.      Q&A
- 9:45 – 11:00 a.m.      Discussion
- 11:00 – 12:00 p.m.      **Lunch (on your own)**
- 12:00 – 12:30 p.m.      **02 – Project # FE0023385 – Materials and Approaches for the Mitigation of SOFC Cathode Degradation in SOFC Power Systems**  
*Prabhakar Singh – University of Connecticut*
- 12:30 – 1:15 p.m.      Q&A
- 1:15 – 2:30 p.m.      Discussion
- 2:30 – 2:45 p.m.      **BREAK**
- 2:45 – 3:15 p.m.      **03 – Project # FE0026098 – Advanced Materials and Manufacturing Processes for MW-Scale SOFC Power Systems for Improved Stack Reliability, Durability, and Cost**  
*Charles Osbourne – LG Fuel Cell Systems Inc.*
- 3:15 – 4:00 p.m.      Q&A
- 4:00 – 5:15 p.m.      Discussion

## **FEBRUARY 8, 2016 DRAFT VERSION**

**Tuesday, April 26, 2016 – Ellwood Room (Solid Oxide Fuel Cells Program)**

- 7:00 – 8:00 a.m.      **Registration – 2<sup>nd</sup> Floor Foyer**
- 8:00 – 8:30 a.m.      **04 – Project # FWP-FEAA121 – Reliability of Materials and Components for Solid Oxide Fuel Cells**  
*Edgar Lara-Curzio – Oak Ridge National Laboratory (ORNL)*
- 8:30 – 9:15 a.m.      Q&A
- 9:15 – 10:30 a.m.      Discussion
- 10:30 – 10:45 a.m.      **BREAK**
- 10:45 – 11:15 a.m.      **05 – Project # FE0026093– Innovative SOFC Technologies**  
*Hossein Ghezeli-Ayag – FuelCell Energy Inc. (FCE)*
- 11:15 – 12:00 p.m.      Q&A
- 12:00 – 1:15 p.m.      Discussion
- 1:15 – 2:15 p.m.      **Lunch (on your own)**
- 2:15 – 2:45 p.m.      **06 – Project # FWP-66841 – SECA Core Technology Program - PNNL**  
*Jeff Stevenson and Brian Koepfel – Pacific Northwest National Laboratory (PNNL)*
- 2:45 – 3:30 p.m.      Q&A
- 3:30 – 4:45 p.m.      Discussion
- 4:45 – 5:00 p.m.      **BREAK**
- 5:00 – 6:00 p.m.      **Solid Oxide Fuel Cells Program Peer Review Wrap-up Session**

## **FEBRUARY 8, 2016 DRAFT VERSION**

**Wednesday, April 27, 2016 – Ellwood Room (Turbines Program)**

- 8:00 – 9:00 a.m.      **Registration – 2<sup>nd</sup> Floor Foyer**
- 9:00 – 9:30 a.m.      **Peer Review Panel Kickoff Session – Turbines**  
Open to National Energy Technology Laboratory (NETL) and ASM International staff only
- ASM International Welcome
  - Role of Panel Chair
  - Technology Manager / Division Director, Office of Program Performance & Benefits (OPPB) and Panel Question and Answer
  - Peer Review Process and Meeting Logistics
- 9:30 – 10:00 a.m.      **07 – Project # FE0011762 – Evaluation of Flow and Heat Transfer Inside Lean Pre-Mixed Combustor Systems Under Reacting Flow Conditions**  
*Srinath Ekkad and David Gomez-Ramirez – Virginia Polytechnic Institute and State University*
- 10:00 – 10:45 a.m.      Q&A
- 10:45 – 12:00 a.m.      Discussion
- 12:00 – 1:00 p.m.      **Lunch (on your own)**
- 1:00 – 1:30 p.m.      **08 – Project # FE0025174 – Investigation of Autoignition and Combustion Stability of High Pressure Supercritical Carbon Dioxide Oxycombustion**  
*Wenting Sun – Georgia Tech Research Corporation*
- 1:30 – 2:15 p.m.      Q&A
- 2:15 – 3:30 p.m.      Discussion

## **FEBRUARY 8, 2016 DRAFT VERSION**

**Thursday, April 28, 2016 – Ellwood Room (Turbines Program)**

- 7:00 – 8:00 a.m.      **Registration – 2<sup>nd</sup> Floor Foyer**
- 8:00 – 8:30 a.m.      **09 – Project # FWP-FEAA122 – High-Performance Thermal Barrier Coatings**  
*Bruce Pint – Oak Ridge National Laboratory (ORNL)*
- 8:30 – 9:15 a.m.      Q&A
- 9:15 – 10:30 a.m.      Discussion
- 10:30 – 10:45 a.m.      **BREAK**
- 10:45 – 11:15 a.m.      **10 – Project # FE0025011 – Improving Turbine Efficiencies Through Heat Transfer and Aerodynamic Research in the Steady Thermal Aero Research Turbine (START)**  
*Karen Thole – Pennsylvania State University*
- 11:15 – 12:00 p.m.      Q&A
- 12:00 – 1:15 p.m.      Discussion
- 1:15 – 2:15 p.m.      **Lunch (on your own)**
- 2:15 – 2:45 p.m.      **11 – Project # FWP-2012.03.02 – Turbine Thermal Management (Pressure Gain and Combustion)**  
*Donald Ferguson and Peter Strakey – National Energy Technology Laboratory (NETL-ORD)*
- 2:45 – 3:30 p.m.      Q&A
- 3:30 – 4:45 p.m.      Discussion

**Friday, April 29, 2016 – Ellwood Room (Turbines Program)**

- 7:00 – 8:00 a.m.      **Registration – 2<sup>nd</sup> Floor Foyer**
- 8:00 – 8:30 a.m.      **12 – Project # FE0025495 – Understanding Transient Combustion Phenomena in Low-NO<sub>x</sub> Gas Turbines**  
*Jacqueline O'Conner – Pennsylvania State University*
- 8:30 – 9:15 a.m.      Q&A
- 9:15 – 10:30 a.m.      Discussion
- 10:30 – 10:45 a.m.      **BREAK**
- 10:45 – 11:45 a.m.      **Turbines Program Peer Review Wrap-Up Session**