



SECA Core Technology Program Review Meeting

September 30 – October 1

Albany, New York

AGENDA

Day 1 — September 30

- 7:00 am **Registration and Continental Breakfast**
- 8:00 am **Welcome**
Prabhakar Singh
Pacific Northwest National Laboratory
- 8:05 am **Program Comments**
Wayne A. Surdoval
U.S. Department of Energy, National Energy Technology Laboratory
- 8:15 am **Keynote Speakers**
Overview of New York and Other State Level Distributed Generation and Fuel Cell Demonstration Programs
Nag Patibandla
New York State Energy R&D Authority
- 8:45 am New York State's Fuel Cell and Power Systems Product Development Programs and Case Studies
Richard Drake
New York State Energy R&D Authority

Materials

- 9:00 am *Steve Simner*
Pacific Northwest National Laboratory
- 9:30 am *Gary Yang*
Pacific Northwest National Laboratory
- 10:00 am **Break**
- 10:30 am *Olga Marina*
Pacific Northwest National Laboratory
- 11:00 am *Y.S. Matt Chou*
Pacific Northwest National Laboratory

All presentations will include a ten minute question and answer period.



**Pacific Northwest
National Laboratory**
Operated by Battelle for the
U.S. Department of Energy



Day 1 — Continued

Seals

- 11:30 am *Prabhakar Singh*
Pacific Northwest National Laboratory
- 11:45 am *Ronald Loehman*
Sandia National Laboratory
- 12:00 pm **Group Lunch**

Modeling & Simulation

- 1:30 pm *Moe Khaleel*
Pacific Northwest National Laboratory
- 2:10 pm *Randall S. Gemmen*
U.S. Department of Energy, National Energy Technology Laboratory
- 2:40 pm **Break**

Fuel Cell Failure Analysis

- 3:10 pm *Edgar Lara-Curzio*
Oak Ridge National Laboratory
- 3:40 pm *Jianmin Qu*
Georgia Institute of Technology
- 4:10 pm *Eric Wachsman*
University of Florida
- 5:00-6:30 pm **Reception and Poster Session**

Day 2 — October 1

Materials

- 7:00 am **Registration and Continental Breakfast**
- 8:00 am *Michael Krumpelt*
Argonne National Laboratory
- 8:30 am *Steven J. Visco*
Lawrence Berkeley National Laboratory
- 9:00 am *Stuart Adler*
University of Washington
- 9:30 am *Meilin Liu*
Georgia Institute of Technology
- 10:00 am **Break**
- 10:30 am *S. Elangovan*
Ceramatec, Inc.
- 11:00 am *Gerald H. Meier*
University of Pittsburgh

Day 2 — Continued

Fuel Processing

- 11:30 am *David A. Berry*
U.S. Department of Energy, National Energy Technology Laboratory
- 12:00 pm **Group Lunch**
- 1:00 pm *Rodney Borup*
Los Alamos National Laboratory
- 1:30 pm *David King*
Pacific Northwest National Laboratory

Power Electronics

- 2:00 pm *Jih-Sheng Lai*
Virginia Polytechnic Institute & State University
- 2:30 pm **Break**
- 3:00 pm *Prasad Enjeti*
Texas A&M University
- 3:30 pm *Sudip Mazumder*
University of Illinois

Manufacturing

- 4:00 pm *Scott Swartz*
NexTech Materials, Ltd.
- 4:30 pm **Adjourn**



POSTER PRESENTERS

LSGM Based Composite Cathodes for Anode Supported, Intermediate Temperature (600-800°C) Solid Oxide Fuel Cells — *Tad J. Armstrong*, Materials and Systems, Research, Inc.

A Metallic Interconnect for Intermediate Temperature Planar, Solid Oxide Fuel Cells (SOFC) — *Tad J. Armstrong*, Materials and Systems, Research, Inc.

Advanced Thermal Spray Fabrication of Solid Oxide Fuel Cells — *Jeffrey Brogan and Sanjay Sampath*, MesoScribe Technologies, Inc.

Intermediate Temperature Operation SOFC Development — *S. Elangovan*, Ceramatec, Inc.

CERCANAM® Insulation for Solid Oxide Fuel Cells — *Balakrishnan G. Nair*, Ceramatec, Inc.

Novel Materials for Obtaining Compliant, High-Temperature Seals for SOFCs — *Charles Lewinsohn*, Ceramatec, Inc.

Cathode Polarization Studies for Intermediate Temperature Solid Oxide Fuel Cells — *Srikanth Gopalan*, Boston University

Development of Anode Materials with Unique Microstructures for Low-Temperature SOFCs — *Meilin Liu*, Georgia Institute of Technology

Development of Sulfur Tolerant Materials for the Hydrogen Sulfide (H₂S) Solid Oxide Fuel Cells — *Meilin Liu*, Georgia Institute of Technology

SOFC Materials Development at NexTech Materials — Cathode Materials — *Matthew M. Seabaugh*, NexTech Materials

SOFC Materials Development at NexTech Materials — Seals and Electrolyte Materials — *Matthew M. Seabaugh*, NexTech Materials