

AGENDA

DOE/NETL's 2007 Mercury Control Technology Conference

Hilton Pittsburgh Hotel
Pittsburgh, PA
December 11-13, 2007



AGENDA

TUESDAY, DECEMBER 11, 2007 - BALLROOM 1

7:00 a.m. Registration / Continental Breakfast - Ballroom Foyer

OPENING/OVERVIEW

8:00 a.m. **Introduction**
Andrew O'Palko
U.S. Department of Energy, National Energy Technology Laboratory

8:05 a.m. **Welcome**
Scott Klara, Director, Office of Coal and Power R&D
U.S. Department of Energy, National Energy Technology Laboratory

8:20 a.m. **Overview of DOE/NETL Mercury R&D Program**
Thomas J. Feeley III, Director, Environment & Climate Division
Technology Manager, Innovations for Existing Plants
U.S. Department of Energy, National Energy Technology Laboratory

8:35 a.m. **EPA's Clean Air Rules: An Update**
Robert Wayland, Leader, Energy Strategies Group, Sector Policies and Programs Division
U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards

8:55 a.m. **EPRI's Perspectives on Mercury Control Technology for Coal-Fired Power Plants**
George Offen, Senior Technical Executive
Electric Power Research Institute

9:15 a.m. **Mercury-Related Policy and Technical Developments in the European Union**
Lesley Sloss, Principal Environment Consultant
IEA Clean Coal Centre, International Energy Agency

9:35 a.m. **BREAK - Ballroom Foyer**

SORBENT INJECTION

Moderator: Andrea McNemar, U.S. Department of Energy, National Energy Technology Laboratory

10:00 a.m. **Evaluation of Sorbent Injection for Mercury Control**
Martin Dillon, ADA-ES, Inc.



TUESDAY, DECEMBER 11, 2007 - CONTINUED

- 10:30 a.m. *Activated Carbon Injection at a Texas Lignite Fired Power Plant*
Katherine Dombrowski, URS Corporation
- 11:00 a.m. *Field Testing of Activated Carbon Injection Options for Mercury Control at TXU's Big Brown Station*
John Pavlish, UND Energy & Environmental Research Center; Center for Air Toxic Metals (CATM®)
- 11:30 a.m. *Low-Cost Options for Moderate Levels of Mercury Control*
Tom Campbell, ADA-ES, Inc.
- 12:00 Noon **LUNCH - Ballroom 2**

SORBENT INJECTION - CONTINUED

Moderator: Lynn Brickett, U.S. Department of Energy, National Energy Technology Laboratory

- 1:00 p.m. *Demonstration of Mer-Cure™ Technology for Enhanced Mercury Control*
Shin Kang, ALSTOM Power Inc.
- 1:30 p.m. *Brominated Sorbents for Small Cold-Side ESPs, Hot-Side ESPs, and Fly Ash Use in Concrete*
Ronald Landreth, Sorbent Technologies Corporation
- 2:00 p.m. *Long-Term Carbon Injection Field Test for 90% Mercury Removal in a PRB Unit with an SCR Spray Dryer and Fabric Filter*
Jerry Amrhein, ADA-ES, Inc.
- 2:30 p.m. *Mercury Control Technologies for Electric Utilities Burning Lignite Coal*
John Pavlish, UND Energy & Environmental Research Center; Center for Air Toxic Metals (CATM®)
- 3:00 p.m. **BREAK - Ballroom Foyer**

PANEL DISCUSSION #1

Moderator: Lynn Brickett, U.S. Department of Energy, National Energy Technology Laboratory

- 3:30 p.m. *Sorbents for Mercury Control: Quality, Specificaitons, Best Choice, Availability, & Cost*
Panel Members
Michael Durham, ADA-ES, Inc.
Rob Nebergall, Norit Americas, Inc.
Sid Nelson, Sorbent Technologies Corporation
Nicholas Pollack, Calgon Carbon Corporation
Ed Rebula, ALSTOM Power, Inc.
- 5:00 p.m. **ADJOURN**
- 5:00 - 6:00 p.m. *Reception / Poster Session - Ballroom Foyer*

WEDNESDAY, DECEMBER 12, 2007 - BALLROOM 1

7:00 a.m. Registration / Continental Breakfast - Ballroom Foyer

SORBENT INJECTION - CONTINUED

Moderator: Pieri Noceti, U.S. Department of Energy, National Energy Technology Laboratory

8:00 a.m. *Enhancing Carbon Reactivity in Mercury Control in Lignite-Fired Systems*
Michael Jones, University of North Dakota Energy & Environmental Research Center

8:30 a.m. *Evaluation of Control Strategies to Effectively Meet 70-90% Mercury Reduction on an Eastern Bituminous Coal Cyclone Boiler with SCR*
Tom Campbell, ADA-ES, Inc.

9:00 a.m. *Impact of Sulfur Oxides on Mercury Capture by Activated Carbons*
Evan Granite, U.S. Department of Energy, National Energy Technology Laboratory

9:30 a.m. *Updated Economic Analysis of Activated Carbon Injection for Mercury Control*
Andrew Jones, Science Applications International Corporation

10:00 a.m. **BREAK** - Ballroom Foyer

MERCURY OXIDATION AND CO-REMOVAL WITH FGD SYSTEMS

Moderator: Charles Miller, U.S. Department of Energy, National Energy Technology Laboratory

10:30 a.m. *Testing of Mercury Oxidation Catalysts Upstream of a Wet FGD System*
Gary Blythe, URS Corporation

11:00 a.m. *Bench-Scale Kinetics Study of Mercury Reaction in FGD Liquors*
Gary Blythe, URS Corporation

11:30 a.m. *Field Testing of a Wet FGD Additive for Enhanced Mercury Control*
Mandi Richardson, URS Corporation

12:00 Noon **LUNCH** - Ballroom 2

BY-PRODUCT CHARACTERIZATION/MANAGEMENT

Moderator: Charles Miller, U.S. Department of Energy, National Energy Technology Laboratory

1:00 p.m. *The Fate of Mercury in Synthetic Gypsum During the Manufacture of Wallboard*
Jessica Sanderson, USG Corporation

1:30 p.m. *Fixation and Mobilization of Mercury in FGD Gypsum*
Karl Schroeder, U.S. Department of Energy, National Energy Technology Laboratory

2:00 p.m. *Characterization of Coal Utilization By-Products from Mercury Control Field Testing*
Carl Hensman, Frontier Geosciences, Inc.

2:30 p.m. **BREAK** - Ballroom Foyer

WEDNESDAY, DECEMBER 12, 2007 - CONTINUED

PANEL DISCUSSION #2

Moderator: Evan Granite, U.S. Department of Energy, National Energy Technology Laboratory

3:00 p.m. [Mercury Measurements / CEMs](#)
Panel Members
Bob Brunette, Frontier Geosciences
Dennis Laudal, UNDEERC
George Offen, EPRI
Nenad Sarunac, Lehigh University
Jennifer Wilcox, Worcester Polytechnic Institute

4:30 p.m. **ADJOURN**

THURSDAY, DECEMBER 13, 2007 - BALLROOM 1

7:30 a.m. Registration / Continental Breakfast - Ballroom Foyer

OTHER MERCURY CONTROL TECHNOLOGY

Moderator: Andrew O’Palko, U.S. Department of Energy, National Energy Technology Laboratory

8:30 a.m. [Utilization of Partially Gasified Coal for Mercury Removal](#)
Christopher Samuelson, GE Energy and Environmental Research Corporation

9:00 a.m. [Long-Term Demonstration of Sorbent Enhancement Additive Technology for Mercury Control](#)
Jason Laumb, University of North Dakota Energy & Environmental Research Center

9:30 a.m. [Pilot Testing of WRI’s Novel Mercury Control Technology by Pre-Combustion Thermal Treatment of Coal](#)
Alan Bland, Western Research Institute

10:00 a.m. **BREAK** - Ballroom Foyer

OTHER MERCURY CONTROL TECHNOLOGY - CONTINUED

Moderator: Andrew O’Palko, U.S. Department of Energy, National Energy Technology Laboratory

10:30 a.m. [Toxecon Retrofit for Mercury and Multi-Pollutant Control](#)
Steve Derenne, We Energies

11:00 a.m. [Enhancing NO_x and Hg Emission Control Using Coal Wastes](#)
Stephen A. Johnson, Quinapoxet Solutions

11:30 a.m. **LUNCH** - Ballroom 2

THURSDAY, DECEMBER 13, 2007 - CONTINUED

PANEL DISCUSSION #3

Moderator: Andrew O’Palko, U.S. Department of Energy, National Energy Technology Laboratory

12:30 p.m. **Non-Sorbent Mercury Control: Market Niche, Technology Options, Performance, Availability, & Cost**

Panel Members

Gary Blythe, URS Corporation

John David, Babcox & Wilcox Company

Ray Evans, FirstEnergy Service Company

Michael Rini, ALSTOM Environmental Control Systems

1:30 p.m.

Wrap-Up

Lynn Brickett

U.S. Department of Energy, National Energy Technology Laboratory

Closing Remarks

Thomas J. Feeley III

U.S. Department of Energy, National Energy Technology Laboratory

2:00 p.m.

ADJOURN