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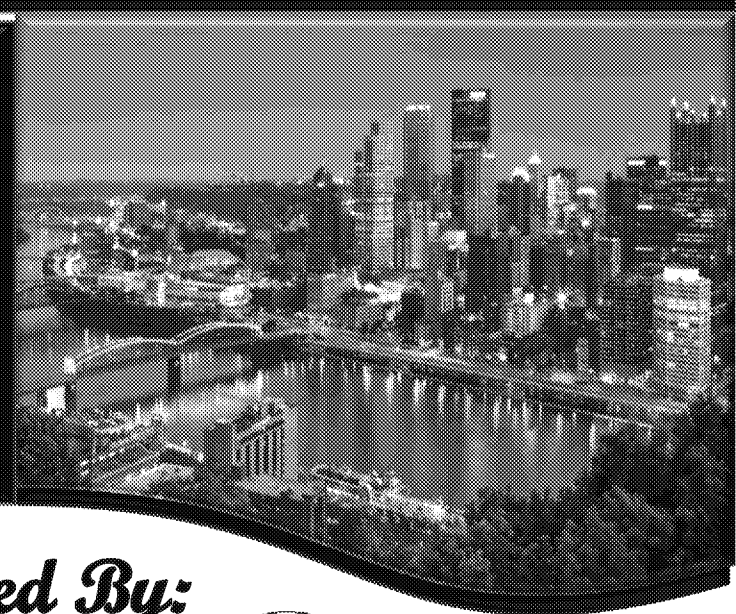
Thirty Fourth Annual International PITTSBURGH COAL CONFERENCE

Conference Announcement and Call for Papers

Abstracts Deadline March 31 2017

September 5 – 8, 2017
Sheraton Station Square
Pittsburgh, PA USA

Coal – Energy, Environment and Sustainable Development



Hosted By:

University of Pittsburgh
Swanson School of Engineering



Program Topics

1. Gasification Technologies

- Industrial Applications, Economics and Environmental Issues
- Underground Coal Gasification (UCG)
- Synthesis Gas Cleanup
- Gasification Science and Modeling
- Novel Classification Technologies and Concepts
- Co-Gasification of Coal and other Carbon-Based Fuels
- Systems Analysis
- Low Rank Coal Utilization
- Polygeneration

2. Clean Coal Demonstration and Commercial Projects

- Existing and planned clean coal major demonstrations (process and technology demonstrations, i.e. IGCC, SCPC, USC, SNG, CTL, Oxy-combustion, etc.)
- Existing and planned clean coal commercial projects (fully integrated systems) and trends
- Industrial scale and utility scale carbon capture and carbon storage projects (i.e. >250,000 tons/year of CO₂)
- Lessons learned from technology demonstrations and first commercial deployments
- Intermediate scale demonstrations (i.e., 25-50 Mwe)
- Commercially available technology reviews/updates (Vendor reports on advanced technology commercial offerings)
- Financing, business and risk management strategies for major demonstration and commercial projects, including first-of-a-kind projects with or without carbon capture and storage
- Regulatory impacts on major demonstration and commercial projects
- Insurance strategies for CO₂ capture and geologic storage

3. Combustion Technologies

- Industrial Applications and Environmental Issues
- Flue Gas Clean Up and Ash Chemistry
- Combustion Technology Advancements (Pulverized Coal, Fluidized Beds, Co-Firing, etc.)
- Novel Combustion and Cycle Technologies (Oxyfuel, Chemical looping, CO₂ Cycles, etc.)
- Modeling and Economic Evaluation
- Basic Studies, Materials, and Instrumentation

4. Clean Coal and Gas to Fuels

- Coal-To-Liquids Fuels, CTL (Direct Liquefaction, Fischer-Tropsch, MTG, DME, etc.)
- Gas-To-Liquid, GTL
- Substitute Natural Gas (SNG)

- Hydrogen Production
- Syngas to Power (Gas Turbines, Fuel Cells)
- Syngas to Chemicals/Materials

5. Sustainability and Environment

- Energy Production and Water Use – Conservation and Recycle
- Life Cycle Analysis (LCA) or Energy Production Systems
- Energy Production on the Environment
- Energy Sustainability – Efficiency and Conservation to Reduce GHG
- GHG, Inventory Protocol, Legal and Regulatory Considerations, Credits

6. Carbon Management

- Pre-Combustion Capture
- Post-Combustion Capture
- CO₂ Sequestration (Monitoring, Mitigation and Verification; Storage: Depleted Oil/Gas Reservoirs, Aquifers, Basalt, Coal Bed Methane, etc.)
- Transportation Infrastructure Issues
- Legal and Regulatory Issues
- Carbon Footprint Comparison: CTX (DCL/ICL), Petroleum

7. Coal Science

- Chemistry
- Geoscience/Coal Resources
- Trace Elements/Emission
- Coal Processing
- Coal Preparation
- Coal Utilization
- Coal Utilization By-Products (Ash, Fertilizers, etc.)

8. Coal Mining

- Coal Seam and Coal Mine Methane/Gas Management in Coal Mines
- Geological Issues Related to Coal Mining/Properties of Coal-Measure Rocks/Ground Behavior
- Coal Mining and Reclamation
- Mine Safety

9. Coal Bed Methane and Shale Gas

- Geology
- Exploration
- Resources and Reserves
- Drilling and Production
- Completion Methods
- Gas Quality and Processing
- Environmental Impacts
- Abating Methane Emissions from Gas and Coal Production

Program Topics

10. Power Plants (Fired by any fossil and biomass fuels)

- Thermodynamic and economic analysis
- Boiler technology and design
- Steam turbine technology (reheat, regeneration, steam seals, blade aerodynamics)
- Gas Turbines technology (syngas or hydrogen-rich combustion, compressor aerodynamics, turbine blade heat transfer, materials)
- Heat Recovery Steam Generator (HRSG)
- Condenser design and operation
- Cooling tower design and improvements
- Water treatments
- Post combustion gas cleaning
- IGCC integration and components (ASU, gasifiers, syngas cooling, gas clean up, water gas shift, and desulfurization)
- Oxy-fuel combustion plants
- Organic Rankine Cycle (ORC)
- Combined Heating and Power (CHP)
- Energy storage (CAES, ice)
- Power Plants Operation and Maintenance experiences
- Any other or innovative new cycles (supercritical CO₂ cycles, HAT, etc.)

11. Rare Earth Elements in Fossil Fuel Derived Solids and Liquids

This symposium will cover several aspects of the rare earth elements associated with the exploration, recovery, and utilization of coal, petroleum, and natural gas. Topics will include, but not limited to:

- Rare earth element capture/recovery from fossil fuel derived solids and liquids
- Rare earth elements in coal and petroleum fuels
- Rare earth element chemistry in power systems
- Mining waste
- Fly ash and slag
- Separation methods
- Rare earth geochemistry
- Measurement and characterization: challenges and solutions
- Modeling
- Mining and recovery methods in industry
- Status of supply and trade
- Emerging issues

Submission of Abstract

Papers may be submitted in all subject areas dealing with coal technologies and related policy issues.

To qualify for acceptance, please email a one-page abstract to ipcc@pitt.edu

Deadline March 31, 2017

[Please submit your abstract using the template found here.](#)

The abstract must include sufficient content and information for adequate evaluation by the International Pittsburgh Coal Conference Program and South African Committee.

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Proceedings

The Thirty-Fourth Annual International Pittsburgh Coal Conference Proceedings will be published online which will be available after the conference.

For a paper to be included in the Conference Proceedings, your paid registration and complete manuscript in English, must be sent by email to the conference office prior to the conference.

A Note to Authors

The Pittsburgh Coal Conference does not provide financial support to contributing authors. Benefits from participation include the privilege of presenting a paper at this Conference and publication of the paper in the Conference Proceedings for worldwide distribution.

Oral Presentation & Posters

Each author is allowed 20 minutes including a 5 minute discussion period. The conference will provide computers and projectors for PowerPoint presentations. Video and other equipment may be rented by the Conference at the speaker's expense.

Hotel Information

Sheraton Pittsburgh Hotel at Station Square



The Sheraton Pittsburgh is located on the waterfront, in the heart of a 52-acre riverfront complex that includes Station Square restaurants, entertainment and many things to do in Pittsburgh just steps away.

Relax in Pittsburgh's only riverfront hotel, adjacent to 20 restaurants within the Shops at Station Square, Bessemer Court and the Gateway Clipper Riverboat fleet. Experience exceptional service while having easy access to downtown Pittsburgh offices and attractions such as Heinz Field, PNC Park, the Rivers Casino, David L. Lawrence Convention Center and more!

Guest Room Facilities

Comfort and convenience merge in our relaxing Traditional Guest Rooms. Reserve a Traditional Guest Room, filled with residential décor perfectly designed for work or rest, and choose from one king or two double Sheraton Signature bed options. Enjoy comfortable contemporary furnishings and complimentary high speed wireless internet access during your stay. Traditional Guest Rooms are available with atrium and exterior views.



Sheraton Pittsburgh Hotel at Station Square

General Info

Check in time: 3:00 pm
Check out time: 12:00 pm
Self parking \$25/night
Fitness center with an indoor pool

Location

Address: 300 W Station Square Dr., Pittsburgh, PA, 15219 USA
Phone: +1 (412) 261-2000
Website: <http://www.sheratonpittsburghstationssquare.com/>

Directions from Pittsburgh International Airport (PIT):

(Travel Distance: Approximately 20.92 km/13.0 miles)

Take 376 East to Exit 69C
Turn right and continue for approximately one mile
Turn right and follow sign for Route 51 North – McKees Rocks/West End
Be in the right lane at the light
At next T-intersection, turn right toward Carson Street
The hotel is approximately 1.5 miles on the left

Options for getting to and from the hotel include:

SuperShuttle

Fee: \$24 USD; one way trip from airport to hotel in shared van.
Hours: 24 hours
Contact: (1)(800) 258-3826

Rates

To qualify for the special PCC rates, please book **before August 14, 2017** and use the link provided below.

\$149

Single or double per night

[Click here to book the Sheraton
with the PCC special rate!](#)

Registration

Please register on the following link:
[PCC Registration Page](#)

Upon receiving your online **paid** registration, you will receive a receipt. Upon receiving your **unpaid** online registration, you will receive an invoice. We accept VISA, Mastercard, American Express, wire transfers, and checks. Please note your attendance will not be confirmed until payment is received.

Registration Rates for 2017:

	Registration Before May 1, 2017	Registration After May 1, 2017
TYPE	USD	USD
Presenters, Board Members, Vice Chairs	\$700	\$800
General Public	\$850	\$950
One Day Registration	\$450	\$500
Student	\$400	\$500

Contact Information

PCC Organizer

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