

An



Event

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THE ELEVENTH ANNUAL CARBON CAPTURE UTILIZATION & SEQUESTRATION CONFERENCE

April 30 - May 3, 2012

David L. Lawrence Convention Center
Pittsburgh, Pennsylvania

CALL FOR PAPERS

The **2012 Conference program** follows in the footsteps of the past 10 events, with an **added emphasis this year on potential utilization of anthropogenic carbon emissions** that is reflected in the new name of the conference. The focus is on systems and technologies that are being or could be deployed in the U.S. and North America. The intent is to:

- Provide a forum for the exchange of experience among U.S. and international scientific and engineering communities working on such technologies and systems;
- Facilitate the necessary dialogue between technology developers/purveyors, industry and the public on the development and deployment of viable technologies; and
- Share experience on developing the necessary capacity within the public and private sector to move the technology base forward.

...Last year's Carbon Capture and Sequestration Conference was a 'watershed' event, attracting internationally acclaimed experts who addressed all aspects of CCS—government policy, regulation, legal issues, technology advancement, RDD&D and public acceptance. Opened by National Energy Technology Laboratory Director Anthony Cugini and AEP President and Chairman Mike Morris, the program included nearly 170 technical paper presentations and 100 posters selected from 350 submitted abstracts. Attendees represented more than 250 private companies and 150 academic institutions. *The annual May CCS Conferences have become the place to be if you have anything to do with CCS.*

Conference Advisors... (as of 1/04/2012)

Stefan Bachu Alberta Innovates	Jared Ciferno U.S. DOE-NETL	Neeraj Gupta Battelle	Bruce Kobelski U.S. EPA	Granger Morgan Carnegie Mellon Univ.	Richard Rhudy EPRI	John Tombari Schlumberger Carbon Services
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Thomas Brouns PNNL Battelle	Judith M. Greenwald C2ES	Chris Knepler Australian Trade Comm.	Michael Moore NACCSA			

An Invitation to Present a Paper or Poster

Individuals seeking to present a paper in the concurrent sessions or as a poster must submit a **350-word abstract** for peer review. Following is a list of topic areas. **'HOT TOPICS' FOR 2012 ARE IN GREEN**. Acceptance for presentation in a concurrent session or for a poster presentation will depend on the decision of reviewers. *For 2012 'poster only' presentations are being sought in some topic/sub-topic areas. These are designated in italics.*

ASSESSMENTS OF SOURCES AND STORAGE CAPACITY FOR ANTHROPOGENIC CO₂ IN THE U.S. and GLOBALLY

UTILIZING ANTHROPOGENIC CO₂ FOR EOR

- Potential Regulatory Challenges to Designating CO₂-EOR as Storage/Sequestration
- EOR-CCS Systems for Electric Generating Facilities
 - Potential Revenue Stream for Utilities
 - Challenges in a Regulatory Environment
 - Liability Concerns for the Utility
 - Model Contractual Agreements
- EOR-CCS for Industrial Processes
 - Structuring a Contractual Agreement to Allow the CO₂ Emitter a Share of EOR-Generated Revenues
- Economic/Business Models to Allow EOR Revenue to Offset Costs of Deployment of CO₂ Capture/Storage Systems

UTILIZATION OF ANTHROPOGENIC CO₂ IN INDUSTRIAL/MANUFACTURING PROCESSES

- Fabrication of Carbon-Based Materials Such as Carbonates
- Feed for Production of Bio-Fuels/Bio-Mass Storage for Secondary Use
- Other Innovative Systems/Processes

UTILIZATION OF ANTHROPOGENIC CO₂ IN GEOTHERMAL SYSTEMS

CCS SYSTEMS UTILIZING COAL WITH BIOMASS

CCS FOR NATURAL GAS-FIRED ELECTRIC GENERATING PLANTS

CCS SYSTEMS FOR INDUSTRIAL PROCESSES

- Natural Gas/Oil Production
- Cement Operations
- Steel Manufacturing
- Refineries

GOVERNMENT ACTIONS AFFECTING CCS SUPPORT, DEPLOYMENT

- California Cap & Trade Law
- Actions in Canadian Provinces

CCS IN CANADA

- The U.S.-Canadian Collaboration
- Federal/Provincial Policy/Law Impact On CCS

CCS IN CHINA

- U.S.-China Programs
- Partnerships with Industry Outside of China

POST-COMBUSTION CAPTURE/SEPARATION TECHNOLOGIES

- Sorbent-Based
- Membrane-Based
- Solvent-Based
 - Ionic Liquids
- Public Health/Environmental Issues Associated with Capture/Separation Technologies

OXYCOMBUSTION/OXYGEN PRODUCTION

- Utilization in Existing Coal-Fired Boilers
- New Advanced Concepts

CAPTURE/SEPARATION SYSTEMS ANALYSES

- Industrial Efforts/Case Studies
- Power System Concepts
- Environmental Aspects
- Cost and Efficiency
- Economics of Pre- vs Post-Combustion Technologies
- Technology Advancement
- Technology Feasibility and Economics

ADVANCED CONVERSION/CAPTURE CONCEPTS

- Methane Conversion

SEQUESTRATION OF CO₂ IN GEOLOGIC FORMATIONS

- Approaches To Optimize Reservoir Performance
- Depleted Oil/Gas Fields
- Enhanced Coal Bed Methane
- Saline Reservoirs
 - Consequences If Need To Comply With Class VI Well Regulation
- Environmental Assessments
- Site Selection and Characterization Protocols
- Unmineable Coal Seams
- Off Shore Sites in North America
- Potential New Capacity for CO₂ Storage as a Consequence of "Fracking"

REGIONAL CARBON SEQUESTRATION PARTNERSHIPS—LARGE SCALE FIELD TESTING

KNOWLEDGE GAINED (OR EXPECTED TO BE OBTAINED) FROM LARGE-SCALE CCS DEMOS IN NORTH AMERICA & GLOBALLY

- Case Studies
- Large Scale CO₂ Injection Projects
- Policy Issues and Roadmaps
- Opportunities for CCS in Emerging Economies

BIOLOGICAL PROCESSES TO STORE/SEQUESTER & UTILIZE CO₂

- Algal Biomass and Bioconversion Systems
- Biological Soil Crust CO₂ Sequestration
- Soil Bio-Char CO₂ Sequestration
- Afforestation and Reforestation
- Biomarine CO₂ Sequestration

SIMULATION AND RISK ASSESSMENT

- Geologic Modeling Efforts
- Case Studies
- Results from Field Tests
- Modeling Development
- Opportunities for Accelerating CCS Deployment

CCS IMPACT ON WATER RESOURCES

- Potential Groundwater Impacts from Sequestration
- Water Resource Demands for Capture Systems
- Management of Extracted Water

MONITORING, VERIFICATION AND ACCOUNTING TECHNOLOGIES

- Field Application Studies
- Tools/Technology Advancement
- Results and Analysis
- Time-Lapse Monitoring
- CCS-EOR Systems

ECONOMICS OF CCS SYSTEMS TO MEET CARBON EMISSION CONSTRAINTS FOR FOSSIL-FUELED ELECTRIC GENERATING FACILITIES

- Rebuild vs Retrofit of Existing Plants
- Comparison with Other Electric-Generating Options

CO₂ COMPRESSION TECHNOLOGIES

CO₂ TRANSPORTATION

- Overall Pipeline Need to Support CCS Proposed to be Deployed in Regions Lacking Suitable Sequestration Sites
- Pipeline Infrastructure
- Storage within Commercial Pipeline Systems
- Risk and Health Concerns
- Related Policies/Regulations

ELECTRIC GENERATION FACILITY DECISIONMAKERS EVALUATION OF FOSSIL-FIRED PLANTS IN A CARBON-CONSTRAINED ECONOMY

- Coal-, Mixed Fuel-, and Natural Gas-based Systems
- Criteria Used by Decisionmakers in Selecting Electric Generation Options
- Consideration of Natural Gas-Fired Plants With/Without CCS
- Comparative Assessments by PUCs, Public Power Entities of CCS for Fossil-Fired Plants Versus Other Options for Electricity Generation
- PUCs, Public Power Entities' Consideration of Liability for Sequestration at Remote Sites

DECISIONMAKING TOOLS/CRITERIA

- Gaps in the Current Knowledge Base
- Decisionmaking Tools for PUCs/Public Power Entities to Evaluate CCS Systems

REGULATORY ISSUES

- Proposed EPA Regulations for CO₂ Emissions from Electric Generating Facilities
- Federal/State/Local Regulations for CCS
- Mineral Rights
- Methods for Reporting CO₂ Emissions
- Certification (1605b)

CCS PUBLIC OUTREACH/EDUCATION

- Risk Communication
- Lessons Learned
- Benefit/Revenue Sharing Between Sequestration Service Provider and Host Community
- Assessment of Public Attitudes

350-Word ABSTRACT DUE: JAN 20, 2012; Acceptance Notification: Feb. 3, 2012; Submit via: www.carbonsq.com

Please indicate topic/sub-topic area. Full Papers or PP Due: April 16. Oral presentation limited to 20 minutes, including 5 min. for Q&A. Poster Sessions 5:30-7:00pm May 1 and 2. PDF files of PP presentations will be accepted in lieu of a technical paper.

Partner and Exhibitor Opportunities

Want to Draw More Attention to Your Organization's Work, Services or Products Addressing CCS?

Become a **CCS Conference Partner and/or Exhibitor in 2012** and have the opportunity to meet with representatives from key government agencies, engineering companies, utilities, academic institutions, research laboratories, consulting firms, investment companies and legal firms. Partner benefits include:

- Speaking or moderating during the plenary sessions or moderating a technical concurrent session;
- Inclusion of a 'marketing' flyer and a full page ad in the conference resource book;
- Complimentary or reduced exhibit fee;
- Free and/or discounted registrations; and
- Prominent signage publicizing your organization's partnership.

For details call 1-877-303-7367 ext. 109 or email carbonsq@exchangemonitor.com

If being a partner is not within your budget then consider putting up an exhibit to showcase your organization's capabilities, products and technologies. Exhibit space is limited—reservations filled on a first come, first served basis. The exhibit schedule revolves around the catered functions to provide ample opportunities for one-on-one discussions. **Fee includes one complementary registration.** Reserve space by registering to exhibit at www.carbonsq.com. The exhibit fees are:

Small Companies
(Up to 100 Employees)
\$2,250

Large Companies
(Over 100 Employees)
\$2,995

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ELEVENTH ANNUAL CCS CONFERENCE

(*WEBSITE: www.carbonsq.com*)

SITE LOCATION

The conference will be held at the **David L. Lawrence Convention Center (DLLCC)**, 1000 Ft. Duquesne Boulevard, Pittsburgh, PA 15222. Phone: 412-565-6000. The DLLCC and The Westin Hotel, our conference headquarters, are located in downtown Pittsburgh, which is approximately 20 minutes from the Pittsburgh International Airport. Taxi service and Super Shuttle service are available from the airport. Super Shuttle provides attendees a discount if advance reservations are made. Call 800-258-3826 to reserve a space.

ACCOMMODATIONS

Hotel rooms have been reserved at the **Westin Hotel**, which adjoins the convention center. **The conference rate of \$215.00** for both single and double occupancy is **available prior to March 30, 2012** and will apply three days prior to and three days following the conference dates. The rates do not include a daily hotel services fee, along with applicable city and state taxes (which are currently 14%).

The Westin (A Starwood Hotel) is located at 1000 Penn Avenue and is attached to the David L. Lawrence Convention Center by a covered walkway. To make a reservation, visit www.starwoodhotels.com/Westin or call 412-281-3700. When making a reservation, identify yourself as a **CCS Conference participant**.

Registration opens at 3:00 p.m. Monday, April 30, followed by a Reception/Dinner beginning at 6:00 p.m. The opening Plenary is at 8:00 a.m., Tuesday, May 1. The Forum ends at 1:00pm Thursday, May 3.

Registration Fees:

Federal, State and Local Government Employees (non-speakers)	\$595.00
Academic Organizations	\$795.00
Electric Utility Employees	\$795.00
Subscribers to <i>GHG Transactions & Technologies</i>	\$1,095.00
General Admissions	\$1,295.00
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Add \$200.00 to all fees after March 30, 2012

Special Discounted Fees for Multiple Registrations available. Call the Forums office at 877-303-7367

(Registration includes: three continental breakfasts, two lunches, three receptions, two dinners, a copy of the Participant Resource Book, Participant Directory and a CD copy of the Proceedings.)

Payment/Cancellation Policy: Anyone who registers and cancels after **March 30** is subject to a \$200.00 service fee. Fees paid will be forfeited for non-attendance or cancellation after **April 13**. Substitutions welcome.

REGISTER ONLINE AT: www.carbonsq.com

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