



# CSLF Capacity Building Task Force Meeting

Report by the CSLF Secretariat

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**Cape Town, South Africa**

**April 13, 2008**

# Capacity Building Workshops

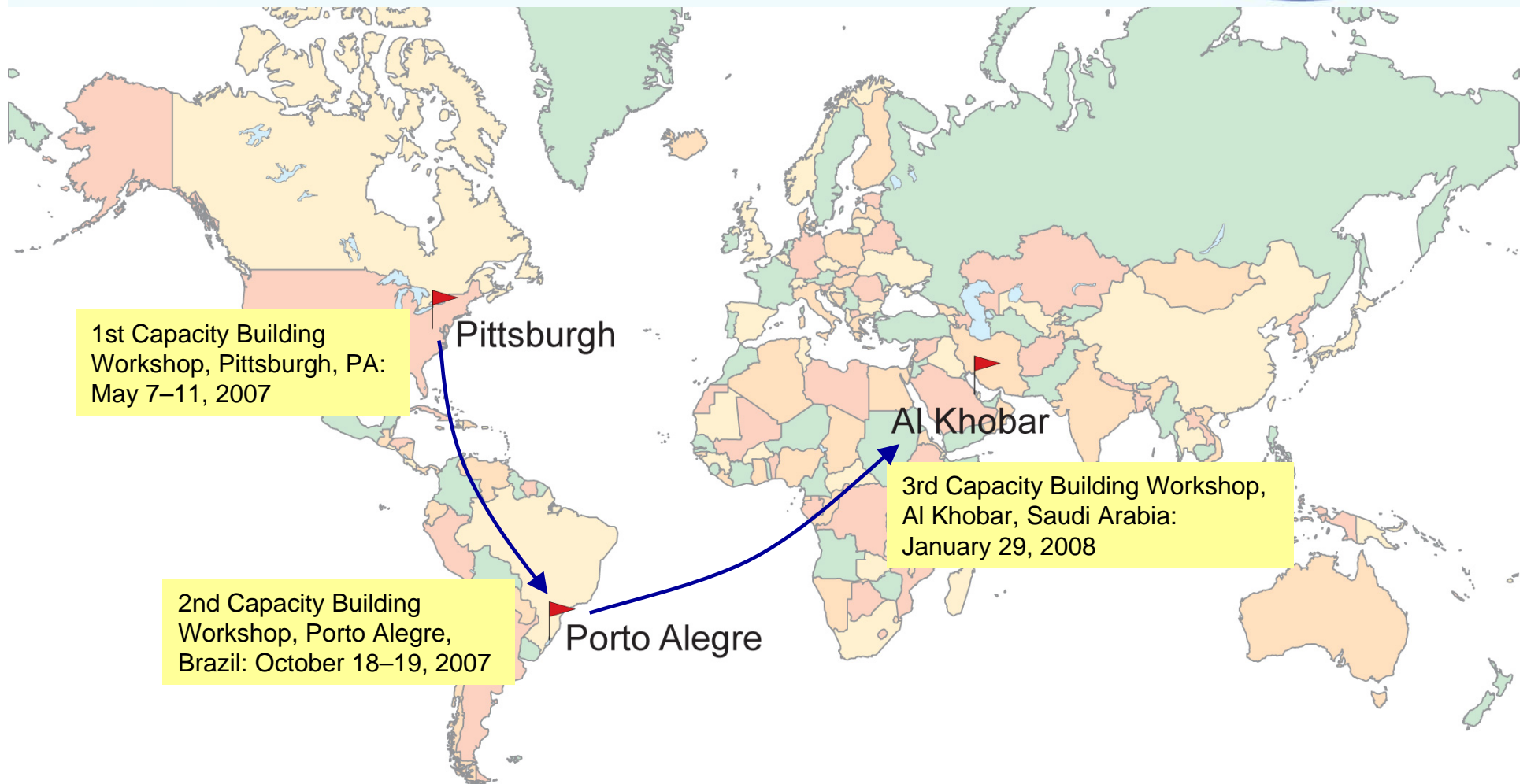


- 1<sup>st</sup> Capacity Building Workshop, Pittsburgh, PA:  
May 7–11, 2007
- 2<sup>nd</sup> Capacity Building Workshop,  
Porto Alegre, Brazil:  
October 18–19, 2007
- 3<sup>rd</sup> Capacity Building Workshop,  
Al Khobar, Saudi Arabia:  
January 29, 2008



# CSLF Activities and Workshops

## March 2007 – April 2008



1st Capacity Building Workshop, Pittsburgh, PA: May 7–11, 2007

Pittsburgh

2nd Capacity Building Workshop, Porto Alegre, Brazil: October 18–19, 2007

Porto Alegre

Al Khobar

3rd Capacity Building Workshop, Al Khobar, Saudi Arabia: January 29, 2008

# CSLF Events Timeline



March  
2007

April  
2008



*Pittsburgh*



*Porto  
Alegre*



*Al Khobar*

# 1st Cap. Bldg. Workshop – Pittsburgh



## Themes:

- *Sequestration in Coal Seams*
- *Large-Scale Commercial Deployment of Carbon Dioxide Capture and Storage Technologies*
- *CO<sub>2</sub> Storage in Geological Media*
- *Analogues and Risk Management*
- *Measuring, Monitoring and Verification*
- *Capture Technologies and Costs*
- *Policy, Legal and Regulatory Issues*
- *The CASTOR Initiative*

# 1st Cap. Bldg. Workshop – Pittsburgh



## Presentations:

- *On the Potential Large-Scale Commercial Deployment of Carbon Dioxide Capture and Storage Technologies: Findings from Phase 2 of the Global Energy Technology Strategy Project* (James Dooley, Pacific Northwest National Laboratory, United States)
- *CO<sub>2</sub> Storage in Geological Media* (Stefan Bachu, Alberta Energy and Utilities Board, Canada)
- *Geological Storage of CO<sub>2</sub>: Analogues and Risk Management* (Sally Benson, Stanford University, United States)
- *Measuring, Monitoring and Verification* (Lee Spangler, Montana State University, United States)
- *International Activity in Carbon Capture and Storage* (Bill Reynen, Natural Resources Canada)
- *Capture Technologies and Costs* (Howard Herzog, Massachusetts Institute of Technology, United States)
- *CCS Stakeholder Involvement and Outreach* (Sarah Wade, AJW, United States)
- *Policy, Legal and Regulatory Issues in Carbon Capture and Storage* (Jeff Price, Bluewave Resources, United States)
- *Developing Australia's Legislation and Regulatory Guidelines for CCS* (Martin Squire, Department of Industry, Tourism and Resources, Australia)
- *The CASTOR Initiative* (Pierre Le Thiez, Institut Français du Pétrole, France)
- *Overview of NETL R&D* (Anthony Cugini, National Energy Technology Laboratory, United States)
- *Sequestration in Coal Seams: An Overview* (Grant Bromhal, National Energy Technology Laboratory, United States)

# 2nd Cap. Bldg. Workshop – Porto Alegre



## Themes:

- Capture and Geologic Storage of Carbon Dioxide – A Key Element of Climate Technology Portfolio
- CO<sub>2</sub> Capture, Transport and Sequestration Technologies
- Measuring, Monitoring & Verification
- Legal and Regulatory Aspects of CCS
- CCS Safety and Analogues
- Sustainable Oil and Gas Production
- Storing CO<sub>2</sub> in Coal Seams
- CO<sub>2</sub> Storage in Saline Reservoirs
- Dynamic Mass Partitioning & Spatial Distribution of CO<sub>2</sub> Trapping Mechanisms
- CO<sub>2</sub> Well Integrity and Wellbore Monitoring
- Understanding Risks
- Source-Sink Matching

# 2nd Cap. Bldg. Workshop – Porto Alegre



## Presentations:

- Update of CSLF Activities (John Panek, CSLF Secretariat)
- Capture and Geologic Storage of Carbon Dioxide – A Key Element of Climate Technology Portfolio (Neeraj Gupta, Battelle, United States)
- Basin Electric Power Cooperative's Approach to CO<sub>2</sub> Capture, Transport and Sequestration Technologies (Fred Stern, Basin Electric Power Cooperative, United States; presented by John Panek, CSLF Secretariat)
- CO<sub>2</sub> Storage in Geological Media (Stefan Bachu, Alberta Energy and Utilities Board, Canada)
- Measuring, Monitoring & Verification (Lee Spangler, Zero Emissions Research and Technology Center, United States)
- Legal and Regulatory Aspects of CCS (Stefan Bachu, Alberta Energy and Utilities Board, Canada)
- CCS Safety and Analogues (Larry Myer, Lawrence Berkeley National Laboratory, United States)
- Sustainable Oil and Gas Production the StatoilHydro way (Jorge Camargo, Statoil Hydro, Brazil)
- Storing CO<sub>2</sub> in Coal Seams (Grant Bromhal, National Energy Technology Laboratory, United States)
- CO<sub>2</sub> Storage in Saline Reservoirs (John Bradshaw, GeoScience Australia)
- Dynamic Mass Partitioning & Spatial Distribution of CO<sub>2</sub> Trapping Mechanisms (James Johnson, Lawrence Livermore National Laboratory, United States)
- CO<sub>2</sub> Well Integrity and Wellbore Monitoring (Andrew Duguld, Schlumberger, United States)
- Understanding Risks Associated with Deployment of Carbon Capture and Storage (Jim Ekmann, Leonardo Technologies, United States)
- Source-Sink Matching and Country Assessment CCS Potential (John Bradshaw, GeoScience Australia)



## 3rd Cap. Bldg. Workshop – Al Khobar



### **Themes:**

- **Storage of CO<sub>2</sub> in oil and gas reservoirs**
- **Technology Roadmaps**
- **Legal, regulatory and risk issues**
- **The needs of emerging economy countries**

# 3rd Cap. Bldg. Workshop – Al Khobar



## Presentations:

- *CO<sub>2</sub>-EOR Operations: The IEA GHG Weyburn-Midale CO<sub>2</sub> Monitoring and Storage Project*, Frank Mourits, Natural Resources Canada
- *CO<sub>2</sub>-EOR Research in Saudi Aramco*, Nabeel I. Al-Afaleg, Saudi Aramco, Saudi Arabia
- *Potential for CO<sub>2</sub> Sequestration from Natural Gas Production: The Sleipner/CO<sub>2</sub>STORE and Snøhvit Projects*, Trude Sundset, StatoilHydro, Norway
- *Economics of CCS for EOR*, Michael E. Moore, Coalition for Enhanced Oil Recovery, United States
- *Saudi Aramco's CO<sub>2</sub> Carbon Capture & Storage Technology Roadmap*, Ali A. Al-Meshari, Saudi Aramco, Saudi Arabia
- *Australia's Carbon Dioxide Capture & Storage Technology Roadmap*, Dennis Van Puyvelde, (CO<sub>2</sub>CRC), Australia
- *Canada's CO<sub>2</sub> Capture and Storage Technology Roadmap*, Bill Reynen, Geological Survey of Canada
- *United States Carbon Sequestration Technology Roadmap and Program Plan / FutureGen*, Joseph Giove, United States Department of Energy
- *The European Union's ZEP Platform*, Derek Taylor, European Commission DG Energy and Transport
- *Legal and Regulatory Issues*, John Bradshaw, Geoscience Australia
- *Risk Assessment*, George Guthrie, Los Alamos National Laboratory, United States
- *Societal Issues related to CCS Deployment*, John Bradshaw, Geoscience Australia
- *Public Outreach and Education*, Anne-Marie Thompson, Canmet Energy Technology Centre, Canada
- *Panel on Needs of Emerging Economy Countries* (Marcelo Ketzner, PUCRS-CEPAC Carbon Research Center, Brazil; Sanjay Sharma, Central Electricity Authority, India; Jeff Kgobane, Department of Minerals and Energy, South Africa)

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# 1<sup>st</sup> Capacity Building Workshop

## Pittsburgh, PA, May 7–11, 2007



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## 2<sup>nd</sup> Capacity Building Workshop

Porto Alegre, Brazil, October 18–19, 2007



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# CSLF Technical Group Meeting

Al Khobar, Saudi Arabia, January 27–29, 2008

