



**Carbon Sequestration Leadership Forum  
Capacity Building Workshop  
for Emerging Economies**  
*Workshop para Capacitação de  
Economias Emergentes*

**Porto Alegre - Brazil - October 18 -19, 2007**



**Marcelo Ketzer,  
Head of CEPAC  
Brazilian Carbon Storage Research Center  
Pontifical Catholic University of Rio Grande do Sul**



## 2<sup>nd</sup> CSLF Capacity Building Workshop 18-19 October 2007



**Porto Alegre,  
Brazil**





Pictures from [www.wikipedia.org](http://www.wikipedia.org)



**16-17 October 2007:**  
**Inauguration of the Brazilian Carbon Storage Research Center - CEPAC**  
**International Seminar on Perspectives for near-term CCS deployment in Brazil**



## Brief history of the 2<sup>nd</sup> CSLF Capacity Building Workshop:

- Concept of the idea in the 1<sup>st</sup> Workshop (Pittsburg, 7-11 May 2007) with Judd Swift and CSLF Secretariat
- Discussion on relevant topics in the IEA/CSLF/G8 meeting (Oslo, 21-22 June 2007) with Judd Swift and CSLF Secretariat
- Close contact with CSLF/DOE for final arrangements from June to October
- 2<sup>nd</sup> Capacity Building Workshop held in 18-19 October 2007



## **Organizing committee:**

**Justin Swift, U.S. DOE, Chair of the Capacity Building Task Force**

**John Panek, U.S. DOE, CSLF Secretariat**

**Marcelo Ketzer, CEPAC-PUCRS, Chair of the 2<sup>nd</sup> Capacity Building in Brazil**

**Paulo Cunha, PETROBRAS, Technical program**

**Robert Gentile, Leonardo Tech., Technical Program**

**Maria Reidpath, U.S. DOE, Technical Program**

## 2<sup>nd</sup> CSLF Capacity Building Workshop in a glance:

- Focus on technical aspects of CCS
- 2 intense days with 8h of lectures and discussions/day
- 14 technical lectures on various CCS issues: from capture to storage, including monitoring, legal and regulatory aspects.



- **130 participants from 15 different Brazilian entities, including universities, oil and coal industry, and government.**
- **10 countries represented between lecturers and participants**
- **Other CSLF countries such as Colombia**







**Thursday, 18 October**

**Opening Remarks**

*Justin Swift, United States, Chair of CSLF Capacity Building Task Force*

**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*



**Friday, 19 October**

**Sustainable Oil and Gas Production the StatoilHydro Way**

*Jorge Camargo, StatoilHydro, 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*

**Closing Remarks**

*Justin Swift, United States, Chair of CSLF Capacity Building Task Force*



## Important outputs:

- **Development of the “*Student Body*” concept – a tool for exchange of information, rising of funds, etc for students**
- **Concept of the Advanced Training Center for Emerging Economies within CEPAC**
- **Significant number of companies and students demonstrating interest in CCS issues**

# Press release in local news paper (Zero Hora, 15 October 2007)

## CSLF Capacity Building

### Paper: “Coal against warming”

