

**2<sup>nd</sup> U.S.-China CO<sub>2</sub> Emissions Control Science & Technology Symposium**  
**Agenda**  
**29-30 May 2008**  
**Hangzhou, People's Republic of China**

**Organized by Zhejiang University and Columbia University**

**Supported by Chinese Ministry of Science & Technology and U.S. Department of Energy/National Energy Technology Laboratory under Annex IV: Energy & Environment Control Technologies of the U.S.-China Fossil Energy Cooperation Protocol**

**FIRST DAY – 29 MAY 2008**

***Opening Plenary Session***

***8:30 am – 9:30 am***

- 8:30 – 8:45 Welcoming Remarks  
Prof. Cen Kefa, Zhejiang University  
Mr. Scott Smouse, U.S. Department of Energy National Energy Technology Laboratory
- 8:45 – 9:00 Welcoming Remarks and Conference Opening  
Dr. Lu Xuedu, U.N. CDM Executive Board Member and Chinese Ministry of Science and Technology
- 9:00 – 9:30 Plenary Address  
Dr. Klaus Lackner, Columbia University
- 9:30 – 9:45 Announcements  
Prof. Zhongyang Luo, Zhejiang University

***Break***

***9:45 am – 10:10 am***

***Technical Session 1: Key Carbon Capture and Storage Projects***

***10:15 am – 12:00 pm***

- 10:10 – 10:40 U.S. Carbon Capture and Storage Program  
Justin (Judd) Swift, Assistant Secretary for International Affairs  
Office of Fossil Energy, U.S. Department of Energy
- 10:40 – 11:10 CCS Activities in China  
Dr. Lu Xuedu  
U.N. CDM Executive Board Member and Chinese Ministry of Science and Technology
- 11:10 – 11:35 Carbon Capture and Sequestration Potential with IGCC Technology  
Jian Feng Liu, Technical Director, Application Engineering, China GE Energy
- 11:35 – 12:00 Liquefaction Projects in China  
Dr. YuZhou Zhang, President  
Mr. Xiang Kun Ren, VP  
Ms. Jessica Sheng, Foreign Affairs Chief  
Shenhua Direct Coal Liquefaction Company

***Lunch***

***12:00 pm – 1:00 pm***

**Technical Session 2: Advanced Technologies****1:00 pm – 3:00 pm**

- 1:00 – 1:25 CTL Projects in Mongolia  
Dr. Ming Sung, VP Technology  
Dr. Zhongzhue Gan, President of R&D  
XinAo Group
- 1:25 – 1:50 Verifying Storage Capacity Assessments and MMV Issues  
Dr. Mahmut Sengul, Schlumberger
- 1:50 – 2:15 Green Coal-based Power Generation  
Dr. Xu Shisen, Thermal Power Research Institute
- 2:15 – 2:40 Technology Options for New and Retrofit Applications  
Dr. Richard Doctor, Argonne National Laboratory
- 2:40 – 3:05 CO<sub>2</sub> Chemical Separation Science and Technology  
Prof. Fei Weiyang, Tsinghua University

**Break****3:05pm – 3:30pm****Technical Session 3: Advanced Technologies****3:30pm – 6:00pm**

- 3:30 – 3:55 System Analysis of Options to Improve Capture Technology  
Ms. Xinxin Li, Columbia University
- 3:55 – 4:20 CO<sub>2</sub> Storage and Utilization in EOR  
Prof. Shen Pingping, Former President, RIPED, PetroChina
- 4:20 – 4:45 Innovative Combustion and Gasification Concepts to Manage Carbon  
Dr. Michael Trachteberg, Carbozyme
- 4:45 – 5:10 Combustion of Chemical Chain and New Types of Combustion  
Dr. Jin Hongguang, Institute of Engineering Thermophysics, Chinese Academy of Sciences
- 5:10 – 5:35 Oxygen-rich Combustion  
Prof. Zhen Chuguang, Huazhong University of Science and Technology

**Dinner****TBD****SECOND DAY – MAY 30, 2008****Technical Session 4: Carbon Capture and Use****8:30am – 10:20am**

- 8:30 – 9:00 Assessment of Storage Capacity  
Dr. Julio Friedmann, Lawrence Livermore National Laboratory
- 9:00 – 9:30 Industrial Applications of CO<sub>2</sub>  
Dr. Zhang Yi, Institute of Process Engineering, Chinese Academy of Sciences
- 9:30 – 9:55 Air Capture of CO<sub>2</sub>  
Dr. Klaus Lackner, Columbia University
- 9:55 – 10:20 Carbon Capture Research in China  
TBD, Zhejiang University

**Break****10:20 am – 10:45 am**

**Technical Session 5: CO<sub>2</sub> Storage** **10:45 am – 12:30 pm**

- 10:45 – 11:10 CO<sub>2</sub> Aquifer Storage  
Dr. Sun Shu, Institute of Geology and Geophysics, Chinese Academy of Sciences
- 11:10 – 11:35 Potential for EOR, EGR, and CBM in China  
TBD, China
- 11:35 – 12:00 CO<sub>2</sub> Mineralization  
Dr. Andrew Chizmeshya, Arizona State University
- 12:00 – 12:25 Basalt Storage  
Dr. Juerg Matter, Columbia University

**Lunch** **12:30 pm – 1:45 pm**

**Technical Session 6: CO<sub>2</sub> Storage** **1:45 pm – 3:35 pm**

- 1:45 – 2:10 Migration and Transformation of Marine Carbon and CO<sub>2</sub> Ocean Storage  
Dr. Song Jinming, Institute of Oceanology, Chinese Academy of Sciences
- 2:10 – 2:35 CCS-related Research in Tsinghua University's 3E Institute  
Prof. Rui-Na Xu, Tsinghua University
- 2:35 – 3:00 CO<sub>2</sub> Mineralization  
Dr. Alissa Park, Columbia University
- 3:00 – 3:35 CO<sub>2</sub> Emission Control Technologies and Ocean Storage  
Professor Song Yongcheng, School of Energy and Power Engineering

**Break** **3:35pm – 4:05pm**

**Technical Session 7: CCS and Economic Development** **4:05 pm – 5:15 pm**

- 4:05 – 4:30 Biological Carbon Sequestration  
Dr. Zhang Xinshi, Institute of Botany, Chinese Academy of Sciences
- 4:30 – 4:55 Wyoming's Energy Development Strategy  
Dr. Ronald Surdam and Dr. Jiao Zunsheng, Wyoming Geologic Survey
- 4:55 – 5:20 Energy, Environment, and Climate Change  
Prof. Xu Huaqing, Energy Research Institute, National Development and Reform Commission

**Closing Session** **5:30pm – 5:45 pm**

- 5:30 – 5:45 Closing Remarks  
Prof. Cen Kefa, Zhejiang University  
Mr. Scott Smouse, U.S. Department of Energy National Energy Technology Laboratory

**Dinner** **TBD**