The Abdus Salam International Centre for Theoretical Physics

Joint ICTP-IAEA Meeting on Environmental Issues Related to Geological Storage of Carbon Dioxide and Nuclear Wastes

Organizer(s): Directors: F.L. Toth. Local Organizer: K. Aoudia
Trieste - Italy, 14 - 18 April 2008

Venue: Adriatico Guest House Lundqvist Lecture Hall

Final programme

Monday, 14 April 2008

08:00 - 10:00 (Room: Adriatico Guest House (Lower Level 1))
Registration, Administration, Banking
Registration will take place in front of the Eklund Laboratory, in the Adriatico Guest House (Lower Level 1) starting at 8:00 a.m. After the registration, a shuttle service will take participants to a different building (Enrico Fermi) to take care of administrative and banking matters and will bring you back to Adriatico.

10:00 - 10:30 --- Gathering - coffee break ---

10:30 - 11:30 (Room: Adriatico Guest House Lundqvist Lecture Hall)
SESSION 1 Opening and Introductions
Welcome (Claudio Tuniz - Assistant Director, ICTP) 10'
Welcome (Karim Aoudia - Earth System Physics Section, ICTP) 10'
Objectives and overview (Ferenc Toth - IAEA) 10'
Participant Introduction , Expectations 30'

11:30 - 12:30 **SESSION 2 Opening Keynote**
Global Energy Strategies (James A. Edmonds - University of Maryland) 01h00'

12:30 - 14:00 --- Lunch break ---

14:00 - 15:30 **SESSION 3 Introductory Presentations**
Carbon Capture and Storage - the IPCC Special Report (Dario R. Gomez - CNEA (Argentina) / IAEA) 45'

Nuclear Waste and the Potential Role of Fourth Generation Reactors (James A. Edmonds) 45'

15:30 - 16:00 --- Coffee break ---

16:00 - 17:30 **SESSION 4 Regional Presentations I**

South Africa (Anthony D. Surridge - South African National Energy Research Institute) 45'

Energy Complex Development and C02 Sequestration in Russia (Alexander Ilinsky - All Russian Petroleum Research Geological Exploration Institute) 45'

18:00 - 20:00 (Room: Adriatico Guest House Cafeteria)
Reception

Tuesday, 15 April 2008

08:30 - 10:30 **SESSION 5 Geology**

Mechanism, Media, Duration I (Timothy J. McEven (w/S. Bachu) - Cobblestones) 45'

Mechanism, Media, Duration II (Timothy J. McEven (w/S. Bachu)) 45'

10:00 - 10:30 --- Coffee break ---

10:30 - 12:00 **SESSION 6 Environment and Risk**

Environmental Issues and the Geological Storage of C02 and Radioactive Waste (Julia M. West - British Geological Survey) 45'

Risk Assessment Methods (Philip Maul (presenter D. R. Gomez)) 45'

12:00 - 12:30 **Short Presentation**

CCS and NP in the Post-Kyoto Agreement (Ferenc Toth) 30'

12:30 - 14:00 --- Lunch break ---

14:00 - 15:30 **SESSION 7 Risk Assessment**

Uncertainties in Risk Assessment (Srikanta Mishra - INTERA inc.) 45'

Lessons from Nuclear Waste Risk Assessments (Srikanta Mishra) 45'

15:30 - 16:00 --- Coffee Break ---

16:00 - 17:30 **SESSION 8 Regional Presentations II**

Nuclear Waste and C02 in China (Weiming Chen - Beijing Research Institute of Uranium Geology) 45'

Coalbed Methane in China (Jianping Ye - China United Coalbed Methane Corporation Ltd) 45'

Wednesday, 16 April 2008

08:30 - 10:00 **SESSION 9 Monitoring**

Monitoring and Verification Technologies (Malcolm Wilson - Office of Energy and Environment) 45'

Monitoring - CASTOR Project (Giuliana Rossi - The National Institute of Oceanography and Experimental Geophysics) 45'

10:00 - 10:30 --- Coffee break ---

10:30 - 12:00 **SESSION 10 Transport and Engineering**

Transport (Dario R. Gomez) 45'
Storage Site Engineering (Kathidikaya J.P. Tshibangu - Faculte Polytechnique de Mons) 45'

12:00 - 12:30 **Short Presentation**
Post-Kyoto Negotiations: Recent Developments (Ferenc Toth) 30'

12:30 - 14:00 --- Lunch break ---

14:00 - 15:30 **SESSION 11 Engieering**
Relationships NW-C02 in Engineering (Kathidkaya J.P. Tshibangu) 45'
Reversibility in NW Storage (Frantisek Woller - Radioactive Waste Repository Authority) 45'

15:30 - 16:00 --- Coffee break ---

16:00 - 17:30 **SESSION 12 Regional Presentations III**
Central Europe (Peter Scholtz - Eotvos Lorand Geophysical Institute) 45'

Thursday, 17 April 2008

08:30 - 10:00 **SESSION 13 Law and Economics**
Legal Issues and Liability (Elizabeth J. Wilson - University of Minnesota) 45'
Economic Aspects (Ferenc Toth) 45'

10:00 - 10:30 --- Coffee break ---

10:30 - 12:00 **SESSION 14 Confidence and Public Acceptance**
Confidence Building (Srikanta Mishra) 45'
Public Acceptance (D. Reiner-W. Nuttall (summarized by F. Toth)) 45'

12:00 - 12:30 **Short Presentation**

Prospects for Nuclear Power (Ferenc Toth) 30'

12:30 - 14:00 --- Lunch break ---

14:00 - 15:30 **SESSION 15 Regional Presentations IV**
India (Ajay Kumar Singh - Central institute of Mining and Fuel Research) 45'
Russian Federation (Alexey Cherepovitsyn - State Mining Institute) 45'

15:30 - 16:00 --- Coffee break ---

16:00 - 17:30 **SESSION 16 Regional Presentations V**
NW in the Czech Republic (Frantisek Woller) 45'
Geomagnetic Hazard (Reversal) at a Catastrophic Climate Event (Youn Soo Lee - Korea Institute of Geoscience and Mineral Resources) 45'

Friday, 18 April 2008

08:30 - 10:00 **SESSION 17 Regional Presentations VI**

Republic of Korea (Youn Soo Lee) 45'
Brazil (Roberto Heemann - Pontificia Universidad Catolica do Rio Grande do Sul) 45'

10:00 - 10:30 --- Coffee break ---

10:30 - 12:00 **SESSION 18 Synthesis and Closing**
Lessons learned, issues to be explored in an IAEA Coordinated Research Project (moderator F. Toth) 45'
The IAEA CRP: Principles and Procedures (Dario R. Gomez) 45'

12:00 - 12:10 **Closing**

12:10 - 12:10 **Adjourn**