

# **IEAGHG-GCCSI Student Mentoring Programme**

Dr Aameena Camps

*GHGT-10, The RAI, Amsterdam*

# Week's Structure



- Technical Sessions during the Conference Programme
- Ask-a-mentor sessions to discuss questions with mentors. Mentors are:
  - Aameena Camps, IEAGHG – Storage, Policy and Regulations, Public Perception
  - Tim Dixon, IEAGHG – Generalist, Policy and Regulations
  - Mike Haines, IEAGHG – Generalist, Transport, Integration, Health & Safety
  - Stanley Santos, IEAGHG – Capture, Oxyfuel
  - Lori Gauvreau, Schlumberger – Public Perception and Communication
  - Monica Lupion, CIUDEN – Capture, Pre-combustion
  - Chris Rochelle, BGS – Storage....& John Kaldi, CO2CRC who I'm sure will answer questions if you bump into him during the conference.
- You all have personalised programmes for the week, providing guiding sessions for your research interests, and some recommended sessions to increase knowledge of the full chain of CCS.

# Week's Structure



## Student Programme at a Glance

Ms Kiymet Gizem Gul  
Middle East Technical University  
Turkey  
Area of Interest: Storage

	Session	Option 1	Option 2
Monday Sept 20th	11.30 - 12.50 Technical Session 1	Session 1D - Field Studies (I) - Seismic	Session 1F - Capacity Assessment Methods
	14.10 - 15.30 Technical Session 2	Session 2D - Field Studies (II): Surface and Geomechanical Methods	
	16.00 - 17.20 Technical Session 3	Session 3D - Field Studies (III): Case Studies	
Tuesday Sept 21st	9.30 - 10.50 Technical Session 4	Session 4C - Modelling Tools (I)	Session 4D - Capillary and Solubility Trapping
	11.20 - 12.40 Technical Session 5	Session 5C - Modelling Tools (II)	
	15.40 - 17.20 Technical Session 6	Session 6D - Reservoir Engineering	
Wednesday Sept 22nd	9.30 - 10.50 Technical Session 7	Session 7D - Oil and Gas	
	11.20 - 12.40 Technical Session 8	Session 8D - Site Characterisation (I)	
	15.40 - 17.20 Technical Session 9	Session 9C - Seals	Session 9D - Site Characterisation (II)
Thursday Sept 23rd	9.30 - 10.50 Technical Session 10	Session 10D - Wellbore Integrity	
	11.20 - 12.40 Technical Session 11	Session 11C - Saline Aquifer (II)	Session 11D - Experiences with Storage

## CCS Overview - Alternative Talks

In addition to presentations in your own field of expertise, it is highly recommended to visit technical sessions of other very relevant areas of CCS research. For example, if you are modelling CO<sub>2</sub> migration through a storage reservoir go and listen to talks on capture, public communication and risk assessment; or if working in public communication try listening to the geological results from real projects and talks on more novel greenhouse gas control technology options such as air-capture. The following provides some presentations worth going to which will provide an overview of CCS and greenhouse gas control.

### Capture

Session 1: 11.30 - 12.50
Session 1A - Post-Combustion: Solvents 3. New Energy Efficient Processes and Improvements for Flue Gas CO <sub>2</sub> Capture?: Masahiko Tatsumi, Takashi Nojo, Yasuyuki Yagi; The Kansai Electric Power Co., Inc, Masaki Iijima, Toyoshi Ohishi, Hiroshi Tanaka, Takuya Hirata; Mitsubishi Heavy Industries Ltd
Session 1B - Pre-Combustion Plant Technology 3. Optimisation of Pre-Combustion Capture for IGCC with a Focus on the Water Balance: Trent Harkin; Cooperative Centre for Greenhouse Gas Technologies (CO <sub>2</sub> CRC) & Department of Chemical Engineering, Monash University, Barry Hooper; Cooperative Centre for Greenhouse Gas Technologies (CO <sub>2</sub> CRC), Andrew Hoadley; Department of Chemical Engineering, Monash

Session 2: 14.10 - 15.30
Session 2B - Oxy-Combustion: Fundamentals 2. Study Results of the Combustion Characteristics and the Behaviors of the Corrosive Substances in the Oxy-fuel Combustion Process: Yohei Akutsu, Toshihiko Yamada; IHI Corporation, nobuhiro Misawa; Electric Power Development Co., Ltd., Takashi Kiga; Japan Coal Energy Center (JCOAL)

Session 4: 09.30 - 10.50
Session 4B - Oxy-Combustion: Demonstration 1. CO <sub>2</sub> Capture System - Confirmation Of Oxy-Combustion Promises Through Pilot Operation; Frank Kluger, Patrick Moenckert; Alstom Power Systems GmbH, Bénédicte Prodhomme, Jean-Francois Leandri; Alstom Management SA, Armand Levasseur; Alstom Power Inc

Session 5: 11.20 - 12.40
Session 5B - Novel Systems 2. Postcombustion CO <sub>2</sub> capture with CaO. Status of the Technology and Next Steps Towards Large Scale Demonstration: Andres Sanchez-Blezma, Juan Carlos Ballesteros; ENDESA GENERACIÓN, Luis Diaz, Eugenio de Zarraga; HUNOSA, Francisco Alvarez, Angel Martinez; FOSTER WHEELER ENERGIA, Borja Arias, Juan Carlos Abades; INCAR-CSIC, Gemma Grasa; ICB-CSIC

Session 7: 09.30 - 10.50
Session 7B - Demonstration Projects 2. Demonstration and Verification of Post Combustion Capture using Solvent Scrubbing: Rebecca Gardiner, Stuart Bowden, Dave Fitzgerald; Doosan Babcock Energy Limited
Session 7E - Capture from Industrial Sites 1. More than Coal: A Broader Role for CCS in Industry: Olav Kaastad, Bjorn Berger, Svein Berg; Statoil ASA

### Public Communication

Session 1: 11.30 - 12.50
Session 1C - Learning from Projects 2. Public Communication and Participation Practices of Onshore CCS: Lessons from the Dutch Case Study Barendrecht: Suzanne Brunsting, Ynke Feenstra, Marjolein de Best Waldhober; Energy Research Centre of the Netherlands (ECN)

Session 6: 15.40 - 17.20
Session 6F - Discussion Panel - Public Perception and Acceptance of CCS; Lessons from Practical Experience

## Student Programmes

- Several parallel sessions, so provide different options to suit research interests
- Alternative Talks for each day, and each session covering, capture, public communication, regulations & policy, storage, risk & environmental impact, transport and novel approaches.

# Week's Structure



- Student Reception on Tuesday 21<sup>st</sup> September
  - Chance to meet past Summer School students & experts, plus other students from the conference
- Final Wrap-Up of the meeting on Thursday
  - Discussion of key learnings, outcomes, and recommendations for GHGT-11 IEAGHG-GCCSI Student Mentoring Programme
  - Be provided with information on how to claim your reimbursement.
- Don't forget your stamp cards!
  - You will collect a stamp for every session
- And now to the Muziekgebouw aan't IJ.....





**Any Questions?**