

AGENDA

Welcome cocktail San Servolo Island - Room Basaglia - **Monday April 8 from 18:30**

Tuesday April 9

8:30 Registration

Session 1: Welcome by CO₂GeoNet and CGS Europe

Chair: Sergio Persoglia & Isabelle Czernichowski-Lauriol

9:00 Welcome

Sergio Persoglia, CO₂GeoNet-Secretary

9.05 Objectives of the 8th CO₂GeoNet Open Forum

Rob Arts, CO₂GeoNet-TNO

9.20 CO₂GeoNet and CGS Europe: what it is all about

Isabelle Czernichowski-Lauriol, CO₂GeoNet-BRGM

9.40 CO₂GeoNet strategy 2013-2015

Dominique Durand, CO₂GeoNet-IRIS

10:00 State of play of CO₂ storage in European countries, a CGS Europe inventory

Heike Rütters, CO₂GeoNet-BGR

10:20 Coffee Break

Session 2: Status of large scale CCS demonstration projects worldwide

Chair: Derek Taylor & Hervé Quinquis

10:50 Status of demo sites worldwide and particularly in Europe

Angeline Kneppers, Representative of GCCSI-Europe and CCS project network

11:10 European Commission initiatives: update on the implementation of the CCS Directive and the NER300 Programme

Alexandr Jevsejenko, EC DG Climate Action

11:30 Implementation of the EU Directive: where do we stand? A CGS Europe analysis

Alla Shogenova, CGS Europe-TTUGI

11:40 Implementation of the EU Directive in Italy

Liliana Panei, Italian Ministry of Economic Development

12:00 Panel discussion on large scale CCS demo projects

12:15 Lunch

13:30 State and way forward of CCS in Europe - ZEP position

Wolfgang Rolland, ZEP

14:00 The UK-CCS competition

Nick Riley, CO₂GeoNet-BGS

14:20 **The Quest project (Canada)**

Owain Tucker, Shell

14:40 **Illinois Basin – Decatur Project (US)**

Robert Finley, ISGS

15:00 **Panel discussion on the value of large scale demos**

15:20 *Coffee Break*

Session 3: CO₂ storage R&D - current status, research needs and strategy

Chair: Gary Kirby & Sergio Persoglia

15:50 **Perspective from the European Commission**

Vassilios Kougionas, EC DG Research

16:10 **International perspective from the IEA Greenhouse Gas R&D Programme (IEAGHG)**

Millie Basava-Reddi, IEAGHG

16:30 **Carbon Sequestration Leadership Forum (CSLF) recognized projects and Task Forces on storage**

Giuseppe Girardi, CSLF - ENEA

16:50 **Perspective from the European Energy Research Alliance (EERA) - CCS Joint Programme**

Jonathan Pearce, CO₂GeoNet-BGS

17:10 **ECCSEL initiatives for developing shared European Research Infrastructures**

Sverre Quale, NTNU, Coordinator ECCSEL

17:30 **Development of the ISO standards for CCS**

Hervé Quinquis, CO₂GeoNet-IFPEN

17:40 **Closing remarks for day 1**

19:30 *Gala dinner*

Wednesday April 10

Keynote speaker

9:00 **Keynote lecture on climate change**

Hervé le Treut, IPCC, Director of Institut Pierre Simon Laplace, member of l'Académie des sciences

9:25 **Discussion on Climate Change and CO₂ storage mitigation option**

Session 3 (continued): CO₂ storage R&D - current status, research needs and strategy

Chair: Dominique Durand & Rob Arts

9:40 **A CO₂GeoNet / CGS Europe perspective on research**

Roberto Martinez, CGS Europe-S-IGME & Gary Kirby, CO₂GeoNet-BGS

- 9:55 **Key learnings from monitoring, where do the gaps remain – A CGS Europe analysis**
Anna Korre, CO₂GeoNet-IMPERIAL
- 10:10 **Key learnings from storage site selection and characterisation, where do the gaps remain-Results from CGS Europe and SiteChar**
Florence Delprat-Jannaud, CO₂GeoNet-IFPEN
- 10:25 **Results of the IEAGHG study on mitigation of undesired CO₂ migration in the subsurface**
Jean-Charles Manceau, CO₂GeoNet-BRGM
- 10:40 **Panel discussion on how to organise CCS-R&D in Europe**

11:00 *Coffee break*

Session 4: Small scale pilot projects

Chair: Nick Riley & Niels Peter Christensen

- 11:30 **A ZEP-CGS Europe study on “inventory and rationale for CO₂ storage pilot sites”**
Roberto Martinez, CGS Europe-S-IGME
- 11:45 **Hontomin Large Scale Pilot. A challenge in onshore CO₂ geological storage**
Carlos de Dios, CIUDEN
- 12:05 **Hydraulic tests to address the specific needs of CO₂ storage: application to Hontomin**
Jesús Carrera, IDAEA-CSIC, CIUDEN
- 12:25 **The Ketzin pilot site in Germany – status and the way forward**
Sonja Martens, GFZ Potsdam
- 12:45 *Lunch*
- 14:00 **CO₂ pilot injection in “Skagerrak,” Denmark**
Niels Poulsen, CO₂GeoNet-GEUS
- 14:15 **A study on the pilot CO₂ injection into a Jurassic aquifer in central Poland**
Adam Wojcicki, CGS Europe-PGI
- 14:30 **Continuation of the K12-B pilot in the Netherlands: status and the possible way forward**
Rob Arts, CO₂GeoNet-TNO
- 14:45 **The CO₂CRC Otaway Project: status and plans**
Charles Jenkins, CO₂CRC Monitoring & Verification Project Leader
- 15:00 **Panel discussion on the match between knowledge gaps and learnings from proposed sites**

15:30 *Coffee break*

Session 5: Public perception studies and their possible relevance for the new pilot sites

Chair: Sergio Persoglia & Niels Poulsen

- 16:00 **Introduction**
Samuela Vercelli, CO₂GeoNet-URS

- 16:15** **ECO₂ public perception studies (Italy)**
Samuela Vercelli, CO₂GeoNet-URS
- 16:35** **ECO₂ public perception studies (Scotland)**
Leslie Mabon, Univ. of Edinburgh
- 16:55** **Socially balanced development of CCS pilot projects**
Marta Kaiser, UFU
- 17:15** **Panel discussion on public perception**

Session 6: Closing remarks and introduction to the third day on international research collaboration

Chair: Isabelle Czernichowski & Samuela Vercelli

- 17:45** **Highlights of the forum by the CGS Europe Advisory Body and the EC CGS Europe Advisory Body and EC:**
Millie Basava-Reddi, (IEAGHG), Niels Peter Christensen (ZEP), Alexandr Jevsejenko (EC DG Clima), Vassilios Kougionas (EC DG Research), Lionel Perrette (French Ministry of Ecology – Directorate General for Energy and Climate), Derek Taylor (Consultant), Manfred Treber (GermanWatch)
- 18:15** **Closing remarks**
Sergio Persoglia, CO₂GeoNet-Secretary

Thursday April 11

5th CGS EUROPE KNOWLEDGE-SHARING WORKSHOP

International cooperation and key results from European projects

- 9:00** **Introduction**
Alla Shogenova, CGS Europe-TTUGI

Session 1: International cooperation outside Europe

Chair: Roberto Martinez & Kazbulat Shogenov

- 9:05** **International research networks of the IEA Greenhouse Gas R&D Programme (IEAGHG)**
Millie Basava-Reddi, IEAGHG
- 9:30** **Gaps closure and recommendations from the CSLF technology Road Map**
Sergio Persoglia, CSLF - OGS
- 9:55** **SIMSEQ - Progress of the international Model Comparison Study for Geologic CO₂ Storage**
Sumit Mukhopadhyay, LBNL (USA)

10:20 *Coffee break*

- 10:50** **Is CCS a feasible option in developing countries? Presenting CCS as a realistic choice for Kazakhstan**
Kris Welkenhuysen, CGS Europe-RBINS-GSB
- 11:10** **Potentiality of carbon dioxide geological storage in Morocco. Cooperation with Iberian countries**
Roberto Martinez, CGS Europe-S-IGME

11:30 Discussion on CCS research worldwide

Moderator: Gary Kirby

12:00 Lunch

Session 2: Key results from European projects: remarkable contribution to implement CO₂ storage

Chair: Adam Wojcicki & Heike Rütters

13:10 CO₂StoP & European CO₂Storage Atlas

Niels Poulsen, CO₂GeoNet-GEUS

13:30 Progress of MUSTANG project on Quantification of Saline Aquifers; results on method development and field testing programs so far

Auli Niemi, Uppsala University

13:50 SiteChar: demonstrating safe and permanent storage before injection begins

Jonathan Pearce, CO₂GeoNet-BGS

14:10 Hydrogeological modeling of CO₂ storage at the basin scale: preliminary results of ULTimateCO₂ project

Nicolas Maurand, CO₂GeoNet-IFPEN

14:30 Coffee break

15:00 CO₂ Field Lab - CO₂ Field Laboratory for Monitoring & Safety Assessment

Menno Dillen, CO₂GeoNet-SINTEF

15:20 What is the likely extent of ecosystem impacts should a CO₂ storage site leak? Findings from the RISCS project

David Jones, CO₂GeoNet-BGS

15:40 CarbFix - mineral storage of CO₂ in basalt

Bergur Sigfússon, Reykjavik Energy

16:00 Research on site closure assessment - results from the CO₂CARE project

Axel Liebscher, GFZ Potsdam

16:20 Discussion on filled gaps and key issues

Conclusions

Moderator: Alla Shogenova



8th CO₂GeoNet Open Forum

April 9-11, 2013

Venice, San Servolo Island, Italy

**CO₂GeoNet - a resource for Europe
providing scientific support for the
geological storage of CO₂**

**CGS Europe - a coordination action across
28 Countries**

**A forum - to make scientific research and
researchers available to stakeholders**



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San Servolo Island



CO₂GeoNet The European Network of Excellence on the Geological Storage of CO₂

CO₂GeoNet is the European scientific body on CO₂ geological storage. It currently comprises 13 public research institutes from 7 European countries, and brings together over 300 researchers with the multidisciplinary expertise needed to address all aspects of CO₂ storage. With activities encompassing joint research, training, scientific advice, information and communication, CO₂GeoNet has a valuable and independent role to play in enabling the efficient and safe geological storage of CO₂. CO₂GeoNet was created in 2004 as a Network of Excellence supported by the EC FP6 programme for 5 years. In 2008, the Network became a non-profit association under French law.

www.co2geonet.com

CO₂GeoNet members: BGR (Germany); BGS (UK); BRGM (France); GEUS (Denmark); HWU (UK); IFPEN (France); IMPERIAL (UK); IRIS (Norway); NIVA (Norway); OGS (Italy); SPR Sintef (Norway); TNO (Netherlands); URS (Italy)



CGS Europe The Pan-European Coordination Action on the Geological Storage of CO₂

CGS Europe is a networking project that pools together the expertise of 34 key research institutes in the area of CO₂ geological storage across 28 countries (24 European Member States and 4 Associated Countries). Funded by the EC FP7 programme, it builds upon the networking and integration experience of CO₂GeoNet with the ultimate goal of providing an independent, scientific, pan-European platform and reference source where national, European and international experts, institutes and regulators can access the most up-to-date results of CO₂ storage-related studies, share experiences and good practices, discuss the implementation of regulations, identify research needs to face upcoming challenges, and build new projects.

www.cgseurope.net

CGS Europe partners (in addition to the 13 CO₂GeoNet members mentioned above):

CzGS (Czech Republic); MFGI (Hungary); GBA (Austria); GEOECOMAR (Romania); GEO-INZ (Slovenia); EKBAA (Greece); GSI (Ireland); GTC (Lithuania); GTK (Finland); LEGMC (Latvia); LNEG (Portugal); METU-PAL (Turkey); PGI-NRI (Poland); RBINS-GSB (Belgium); SGU (Sweden); SGUDS (Slovakia); S-IGME (Spain); AGES (Bulgaria); TTUGI (Estonia); UB (Serbia); UNIZG-RGNF (Croatia)