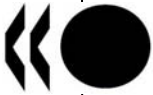


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Organisation de Coopération et de Développement Economiques
Organisation for Economic Co-operation and Development

31-Aug-2005

English - Or. English

**NUCLEAR ENERGY AGENCY
RADIOACTIVE WASTE MANAGEMENT COMMITTEE**

**NEA/RWM/CLAYCLUB(2005)2
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Integration Group for the Safety Case (IGSC)

AGENDA OF THE 15TH CLAY CLUB MEETING

**NEA Offices
Issy-les-Moulineaux, France
8-10 November 2005**

The CLAY CLUB is a working group on Characterisation, Understanding and Performance of Argillaceous Rocks as Repository Host Formations.

JT00188611

Document complet disponible sur OLIS dans son format d'origine
Complete document available on OLIS in its original format

English - Or. English

The OECD/NEA will host the 15th meeting of the Clay Club

on 8-10 November 2005

at its offices in Issy-les-Moulineaux, France

PRACTICAL DETAILS

The NEA offices are situated:

7th Floor (meetings rooms)
Bâtiment/Building B
Le Seine St Germain
12 Boulevard des Iles
92130 Issy-les-Moulineaux, France

Should you want to know how to reach the NEA buildings, please go to the following website:
<http://www.nea.fr/html/general/nea-access.html>

Map of NEA surroundings could be downloaded from: <http://www.nea.fr/html/general/map2.html>

Metro plan of Paris could be downloaded from: <http://www.ratp.fr>

Room bookings should be made directly with the hotel, herewith some suggestions:
<http://www.nea.fr/html/general/hotels.html>

For any requests on practicalities in Issy-les-Moulineaux, please do not hesitate to contact Katia-Karina Le Bot at +33 1 45 24 10 87 or by e-mail at: Katia-Karina.lebot@oecd.org

Should you have any request please do not hesitate to contact:

Sylvie Voinis, OECD/NEA
Tel: +33 1 45.24.10.49
Fax: +33 1 45.24.11.10
E-mail: sylvie.voinis@oecd.org

15th CLAY CLUB MEETING**AGENDA**

The Clay Club is invited to take note of the reports and to discuss proposed ways forward in order to provide recommendations for appropriate continuation of the Clay Club initiatives.

DAY 1: Tuesday 8 November 2005

- | | | | |
|-------|--------|--|---|
| 09:30 | Item 1 | OPENING OF THE MEETING
<i>Chairman and the NEA Secretariat</i>
<ul style="list-style-type: none"> - Welcome to new Clay Club members - Issues to be discussed at this meeting - Adoption of the agenda - Adoption of the minutes of the 14th Clay Club meeting | Status Report
NEA/RWM/CLAYCLUB(2005)2
NEA/RWM/CLAYCLUB(2004)5 |
| 10:00 | Item 2 | OUTCOMES OF THE 7th IGSC Meeting
<i>NEA Secretariat</i>
<ul style="list-style-type: none"> - Presentation of the main conclusions of the 7th IGSC meeting on 12-14 October 2005. | Oral presentation |
| 10:20 | | <i>Coffee Break</i> | |
| 10:50 | Item 3 | LONG-TERM NATURAL TRACER PROFILE: COMPILATION OF RELEVANT DATA-“CLAYTRAC”
<i>M. Mazurek</i>
<ul style="list-style-type: none"> - Outcomes of the seminar of the 6th of July - Presentation of current status - Schedule for the future - Round up discussion | Oral presentation
NEA/RWM/CLAYCLUB(2005)5 |
| 11:40 | Item 4 | AMIGO 2 Workshop
<i>M. Jensen and NEA Secretariat</i>
<ul style="list-style-type: none"> - Main lessons learnt | Oral presentation |
| 12:00 | | <i>Lunch</i> | |

- 14:00 Item 5 **SELF-HEALING REPORT** See:
<http://www.nea.fr/download/clayclub/self-healing.html>
Oral presentation
- 14:00 Item 5a **Final Report – chapters 1 to 12**
R. Cuss
- Presentation of the main comments chapter per chapter and how they were taken Based on comments sent by NEA members in advance of the meeting (see letter of the 27th of May 2005) Chapter 10 will be sent as soon as possible
- Round up discussion –approval on changes
- 15:30 *Coffee break*
- 16:00 Item 5b **Final report –conclusive chapter 13**
R. Cuss
- Round up discussion in order to achieve a final consensual chapter A draft version will be sent in advance of the meeting
- 16:50 Item 5c **Administrative Matters**
NEA Secretariat
- Status on contract – financial aspects Oral presentation
- Publishing
- 17:10 Item 6 **SPECIAL COUNTRY REPORT**
Item 6.a - Situation in Canada on L&ILW Disposal and status of the Used Fuel Program.
M. Jensen
- 17:30 **END OF DAY 1**

CLAY CLUB DINNER

DAY 2- Wednesday 9 November 2005

09:00 Item 7

**TOPICAL SESSION:
“CLAY CLUB ACTIVITIES– WAY
FORWARD ”**

Chairperson: P. Lalieux

Rapporteur: S. Voinis

Self evaluation questionnaire:
[NEA/RWM/CLAYCLUB(2005)4]
Status report:
[NEA/RWM/CLAYCLUB(2005)3]
Compilation of answers-draft
Annex (table of reports)

09:00 Item 7.a **Introduction by the chairman**

Objectives of the Topical Session:

- Evaluate the possibility of further Clay Club specific initiatives
- Review of Clay Club *modus operandi*
- List of potential new topics
- Prioritization of activities and potential launching of some of these activities considering other or planned international activities

09:15 Item 7.b **Results of the self-evaluation by the NEA secretariat**

- *Modus operandi*
- Way forward
- The renewal of the Clay Club mandate to be discussed

Mandate Clay Club
[NEA/RW/CLAYCLUB(2005)1]

09:45 *Coffee Break*

10:15 Item 7.c **Round up session**

- Selected choices
- Detailed discussion on the highest priority

Members are requested to provide arguments on topics they are particularly interested in. Highlights on the way to tackle those topics are also welcome (e.g. rationale for a specific topic, added value from the Clay Club...)

11:30 Item 7.d **Conclusions**

12:00 *Lunch*

- 14:00 Item 8 **CLAY CLUB WORKSHOP ON
“Faults and Fractures in Clays at Depth:
Origin and Evolution”** The aim is to achieve a provisional programme at the end of the session
- 14:00 Item 8.a **Scope and objectives of the workshop** Room document
- L. Wouters*
- The following list of potential issues were agreed at the 14th Clay Club meeting:
 - Anisotropy in the stress state of clay: What are the mechanisms for this memory? Are they linked to the texture?
 - What is the detailed mechanical behaviour of clays at the limit between ductile and brittle, and how does it depend on the clay characteristics?
 - How important are the compositional parameters (mineralogy, water content) for the geomechanic behaviour of clays?
 - What is the relation between the regional geological stress fields and the one in the clay massif: relevance for the prediction of the stress field at scale of a gallery?
 - The description of the relevant geomechanic parameters during the burial history of the clay. The variability of these parameters with depth and pre-load.
 - The lessons learned from observations at surface and during underground works.
 - Comparison with fracturing in reservoirs (petroleum geology)
- 14: 30 Item 8.b **Format – Sessions of the workshop with issues**
- Members have to discuss and agree on the following options for format:
 - Plenary sessions with oral presentations without any poster
 - Plenary sessions with oral presentations + a Poster session
 - One day plenary session + Working group sessions

- 15 :30 *Coffee Break*
- 16:00 Item 8.c **Attendees-Speakers**
- Members have to agree on the potential list of audiences (Waste management organisations, academic and industrial bodies...)
- 16:30 Item 8.d **Schedule**
- Dates and location must be fixed together or separated from the 16th Clay Club meeting
- List of workshops/conferences in 2006
- 17:00 Item 6 **SPECIAL COUNTRY REPORT** (cont'd)
- Item 6.b - Situation in Hungary (political, organizations, progress on sites...)
Z. Nagy
- 17:30 **END OF DAY 2**

DAY 3: Thursday 10 November 2005

- 09:00 Item 9 **DATABASES**
This session will more focus on the utilisation of databases with presentations of feedback.
- 09:00 Item 9.a **FEPCAT- example of its utilisation**
M. Mazurek and M. Jensen
- FEPCAT was used by OPG with the help of Martin Mazurek.
A presentation of practical examples of the utilisation of the FEPCAT may help eventually to its improvement and may provide a good illustration of the integration of scientific databases when making an assessment.
- 09:30 Item 9.b **Catalogue of Characteristics**
Example of its utilisation (TBC)
- 10:00 Item 10 **COUNTRY REPORTS**
- Guidelines for country reports will be provided in advance of the meeting to national organizations.
- 10:30 *Coffee break*
- 11:00 Item 10 **COUNTRY REPORTS** (cont'd)
- 12:00 Item 11 **OTHER TOPICS**
- Any suggestions are most welcomed
- Fulfilment of the NEA secretariat after the departure of S. Voinis
- 12:30 Item 12 **CONCLUSIONS**
- 13:00 **END OF MEETING**
- See:
<http://www.nea.fr/html/rwm/reports/2003/nea4437-FEP.pdf>
Oral presentation
- In press
- Room document
- Oral presentation

**LIST OF CLAY CLUB PUBLISHED REPORTS (PART A)
AND FORTHCOMING REPORTS TO BE PUBLISHED (PART B)**

List of published reports (PART A)

Year	Document Type	Titles	NEA References
1995	Proceedings	Hydraulic and Hydrochemical Characterisation of Argillaceous Rocks. Proceedings of an International Workshop Nottingham, United Kingdom, 7-9 June 1994	IBSN 92-64-14485-4
1996	Report	Water, Gas and Solute Movement Through Argillaceous Media – A “Clay Club” Report	REPORT CC-96/1 ISBN 92-64-14884-1 No. 79325 1996
1998	Proceedings	Detection of Structural and sedimentary heterogeneities and discontinuities within argillaceous formations. Proceedings of the Clay Club Topical Session Brussels, Belgium, 3 June 1998	NEA/SEDE/DOC(98)4
1998	Proceedings	Fluid Flow through Faults and Fractures in Argillaceous Formations. A joint NEA/EC Workshop, Berne, Switzerland 10-12 June 1996	ISBN 92-64-16021-3
1999	Report	Characteristics of argillaceous rocks. A catalogue of the characteristics of argillaceous rocks studied with respect to radioactive waste disposal issues; Belgium, Canada, France, Germany, Italy, Japan, Spain, Switzerland, United Kingdom and United States.	Internal document
1999	Proceedings	Use of hydrogeochemical information in testing groundwater flow models. Proceedings NEA workshop, Borgholm, Sweden, 1-3 September 1997	ISBN 92-64-16153-8
1998	Proceedings	Porewater Extraction from Argillaceous Rocks for Geochemical Characterisation – Methods and Interpretations.	ISBN 92-64-17181-9
2000	Report	Features, event and processes (FEPs) for disposal of radioactive waste – an international database	ISBN 92-64-021485
2001	Report	IGSC Working Group on Measurement & Physical Understanding of Groundwater flow Through Argillaceous Media (CLAY CLUB) Invitation & Final Agenda for the 11 th CLAY CLUB Meeting	NEA/RWM/CLAYCLUB(2001)1/ REV
2001	Proceedings	Self-Healing Topical Session – Proceedings – Nancy (France) 16 May 2001	NEA/RWM/CLAYCLUB(2001)6
2003	Report	Features, Events and Processes Evaluation Catalogue for Argillaceous Media (FEPCAT) Project – Final Report	NEA/RWM/CLAYCLUB(2003)3
2004	Proceedings	Stability and Buffering Capacity of the Geosphere for long-term Isolation of Radioactive Waste. Application to Argillaceous Media. Clay Club Workshop Proceedings, Braunschweig - Germany, 9-10 December 2003	ISBN 92-64-00908-6

Year	Document Type	Titles	NEA References
2005	Proceedings GD	Proceedings of the Topical Session of the 14 th Clay Club Meeting on Organic Matters in Clays: Characterisation, Natural Evolution, Roles and Impacts of Induces Perturbations held in Brussels, Belgium on 20 October 2004	NEA/RWM/CLAYCLUB(2005)1

List of the forthcoming reports to be published (PART B)

2005	Brochure + CD-ROM	Catalogue of the characteristics of argillaceous rocks: Introductory brochure + specific databases in a CD-ROM (Excel versions) per formation.	In press
2005	Report	Potential for Self-healing of Fractures in Plastic Clays and Argillaceous Rocks under Repository Conditions	Draft report under review, Publication planned end 2005 after an approval by clay club funding organisations
2006	Report	CLAYTRAC project: Natural tracer profiles across argillaceous formations - review and synthesis	Report to be published end 2006