
PROGRAMME FOR THE SCIENTIFIC VISIT ON CRYSTALLINE ROCK REPOSITORY DEVELOPMENT

Prague, Czech Republic
24-27 September 2012

DAY 1 – MONDAY 24 SEPTEMBER 2012

7:45 – 8:30 **REGISTRATION**

8:30 – 8:45 **INTRODUCTION AND WELCOME**

Introduction and welcome by Managing Director of RAWRA and Head of the Geological Repository Development Department (J. Slovak/J. Prachař)

8:45 – 11:45 **PRESENTATION OF STATUS REPORTS (CHAIR: RAWRA - J. SLOVAK/J. MIKŠOVÁ)**

Status Report - recent history, accomplishments, site characterization working plans, new directions, lessons learned, policies, funding, regulatory requirements etc.

1. Status Report – Czech Republic (J. Slovak, RAWRA)
2. Status Report – USA (P. Swift, SNL)
3. Status Report – Germany (W. Steininger, KIT)

BREAK

4. Status Report – Switzerland (S. Vomvoris, Nagra)
5. Status Report – Great Britain (R. Whittleston, NDA)
6. Status Report – Korea (I.Y. Kim, KAERI)

11:45 – 13:15 **LUNCH**

13:15 – 15:15 **PRESENTATION OF STATUS REPORTS (CONT.) (CHAIR: SNL - P. SWIFT)**

7. Status Report – Slovakia (M. Kovacik, EN-GEO Consult)
8. Status reports – IAEA group
 - a. Poland - M. Banach,
 - b. Lithuania – A. Sirvydas
 - c. Romania – D. Dogaru /A. Sorescu
 - d. Mexico – R. Vázquez Ponciano
 - e. Pakistan – Z.H. Shah

15:00 – 15:15 **BREAK**

15:15 – 17:00 **STATUS REPORT SUMMARY (CHAIR: RAWRA- J. SLOVAK / SNL - A. ORRELL)**

Discussion – all participants

- Summary of participating countries' approaches, joint statement, potential action, evaluation provided by organizing committee

DAY 2 – TUESDAY 25 SEPTEMBER 2012

8:00 – 10:00 REPOSITORY PROGRAMME DEVELOPMENT METHODOLOGY (CHAIR: SNL - P. MARINER)

1. Repository Programme Development - from concept to licensing (A. Orrell, SNL)
 - Stages in the development process
 - Infrastructure, legal and regulatory framework, funding, organizational responsibilities
2. Technical Bases for Repository Construction in Crystalline Rock (P. Mariner, SNL)
 - Identification of important site attributes to be evaluated during the site screening and site characterization stages
3. Disposal Concepts in Crystalline Rock (E. Hardin, SNL)

10:00 – 10:15 BREAK

10:15 – 12:00 PROGRESS IN SITE SCREENING AND SELECTION (CHAIR: SNL - E. HARDIN)

1. Status Report – Spain (J. Molinero, Amphos21)
2. Swiss Experience in the Siting Process (S. Vomvoris, NAGRA)
3. Group Discussion
 - Open discussion of site screening and selection based on lessons learned, perspectives, and needs from all participants

12:00 – 13:15 LUNCH

13:15 – 15:15 SITE CHARACTERIZATION METHODS (CHAIR: RAWRA - J. SLOVÁK)

1. Technical Advances in Site Characterization
 - a. Focus on geological aspects -geology, hydrology, geochemistry, geophysics, environmental isotopes etc. (F. Woller, RAWRA's consultant)
 - b. Focus on conflicts of interest (legacy, urban plans, protective areas, natural hazards etc.) (J. Mikšová, RAWRA)
 - c. Focus on construction aspects -repository design, geotechnical properties of rock (M.Dvořáková, RAWRA)
 - d. Focus on the decision-making process including potential schedule/when to start, defining of geological criteria (exclusion criteria, conditional criteria) (J. Slovák, RAWRA)
2. Group Discussion
 - Open discussion of site characterization methods based on lessons learned, perspectives, and needs from all participants

15:15 – 15:30 BREAK

15:30 – 17:30 POST-CLOSURE SAFETY ASSESSMENT (CHAIR: SNL - G. FREEZE)

1. Application of the Safety Assessment Methodology (G. Freeze, SNL)
 - Features, events and processes (FEPs) and scenarios for crystalline host media
 - Safety assessment modeling
2. Results of International Safety Assessments in Crystalline Host Media (P. Swift, SNL)
 - Integration with research and development programmes
3. Group Discussion
 - Open discussion of safety assessment needs from all participants

19:00 – 22:30 DINNER IN THE HISTORICAL CENTRE OF PRAGUE (HOSTED BY RAWRA)

DAY 3 – WEDNESDAY 26 SEPTEMBER 2012

8:00 – 10:15 SITE SCREENING AND SITE CHARACTERIZATION – TOPICS OF INTEREST I (RAWRA - J. MIKŠOVÁ)

1. Modelling Hydrogeology and Hydrochemistry in Support of Safety Assessment for Radwaste Repositories in Fractured Rocks - Case Studies and Lessons Learnt From Sweden and Finland (J. Molinero, Amphos21)
2. Simulating Flow and Transport in Fractured Media (A. Pueschel, GRS)
3. Topics related to site screening and characterization focused on field work
 - a. Geologic mapping and structure geology (J. Pertoldová/K. Verner, CGS)
 - b. Geophysical airborne and surface exploration and interpretation (M. Karous, Geonika)
 - c. Borehole investigation methods (J. Lukes/M. Prochazka, Aquatest)
 - d. Hydrogeology and hydrogeochemistry (T. Pačes, CGS)
 - e. Data management (J. Mikšová, RAWRA)
 - f. Communication (L. Steinerová, RAWRA)

10:30 – 10:45 BREAK

10:45 – 12:15 SITE SCREENING AND SITE CHARACTERIZATION – TOPICS OF INTEREST II (RAWRA - J. MIKŠOVÁ)

4. KURT (KAERI Underground Research Tunnel) Activities and Prospects (Y.K. Koh, KAERI)
5. GTS (Grimsel test site) main activities and strategies (I. Blechschmidt, Nagra)
6. Group Discussion
 - Open discussion of site screening and characterization topics based on lessons learned, perspectives, and needs from all participants
 - Identification of opportunities for collaboration

12:15 – 13:30 LUNCH

13:30 – 15:30 FINALE (RAWRA - J. SLOVAK / SNL – A. ORRELL)

1. Feedback and Lessons Learned
 - Peer review/group discussion regarding approaches to crystalline rock repository programme development in participating countries
2. Summary
 - Cooperation, joint statements, action
3. Close of Prague part of SV.

15:30 – 16:30 BREAK

16:30 TRANSFER TO THE JOSEF REGIONAL UNDERGROUND RESEARCH CENTRE

- Transfer by bus from Prague to a village located near to the Josef Facility, accommodation.

19:00 – 22:30 DINNER

- Informal dinner at a local pub.
- Discussion on a potential “Crystalline Host Rock Club” (CHRC) – mapping of interest of the establishment of a working group or platform made up of countries in which crystalline rock is being considered as the host rock for eventual radioactive waste disposal.

DAY 4 – THURSDAY 27 SEPTEMBER 2012

8:00 – 14:00

JOSEF REGIONAL UNDERGROUND RESEARCH CENTRE

8:00	Departure from hotel
8:30	Welcome – Josef URC
9:00	Josef URC Presentation – Main Activities and Strategies (J. Pacovsky, CEG)
9:30 - 12:00	Josef URC visit
12:00 - 14:00	Refreshment
14:00	Departure from Josef URC

15:00 TO 16:00 ARRIVAL BACK IN PRAGUE

CLOSE OF SCIENTIFIC VISIT