

# NATURAL ANALOGUE

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## Working Group

### Agenda for the 12th NAWG Workshop (11<sup>th</sup>-13<sup>th</sup> May, 2011, Cyprus)

#### Wednesday, 11<sup>th</sup> May Natural analogues of cementitious systems

##### Morning session: chair C.Tweed (NDA)

- 09:00 Introductions and aims of the workshop R.Alexander  
(NAWG Chairman)
- 09:10 Welcome from the Geological Survey Dept. of Cyprus M.Rigas (GSD)
- 09:20 Reaction of bentonite in low-alkali cement leachates: an overview of the Cyprus Natural Analogue Project R.Alexander
- 10:10 Carbonation of anthropogenic concrete; Evaluation of carbonation process in concrete with analysis of carbon isotopes ( $^{14}\text{C}$ ,  $\delta^{13}\text{C}_{\text{PDB}}$ ) H.Yoshida
- 10:50 Coffee*
- 11.10 The International Philippines Natural Analogue Project (IPNAP) - NA studies for bentonite reaction under hyperalkaline conditions N.Fujii
- 12:00 Natural cements in Northern Ireland T.Milodowski
- 12:40 Lunch*
- ##### Afternoon session: chair P.Sellin (SKB)
- 14:00 Natural analogues of cementitious systems: safety assessment implications of the unique system in Jordan R.Alexander,
- 14:40 NA studies in the UEA: CO<sub>2</sub> sequestration T.Milodowski

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- 15:00 Sorption of anions and formation of secondary minerals at hyperalkaline spring in Oman T.Sato
- 15:40 *Coffee*
- 16:00 Microbes in hyperalkaline systems: results from Cyprus T.Milodowski
- 16:20 Analogue needs for TRU: output from a NUMO workshop I.G.McKinley
- 17:00 Wrap-up discussion C.Tweed & P.Sellin
- 17:15 Close
- 19:30 *Dinner in the hotel*

### **Thursday, 12<sup>th</sup> May Natural analogues of other repository systems**

#### **Morning session: chair J.Tanskanen (Posiva)**

- 09:00 Identification and applicability of analogues for a new safety case for a HLW repository in rock salt U.Nosek
- 09:45 Hydrogeological and hydrogeochemical conditions at the continental ice sheet margin - Greenland Analogue Project (GAP) T.Ruskeeniemi
- 10:30 *Coffee*
- 10:50 Ruprechtov: update and current status U.Nosek
- 11:40 Barrier function of crystalline rock -Evaluation based on in-situ characterization and experiments at the Mizunami Underground Laboratory (MIU), H.Yoshida
- 12:20 Lunch

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### **Afternoon session: chair B.Kalinowski (SKB)**

- 13:40 Stakeholder communication – is it time for a new NA video? I.McKinley & D.McKie
- 14:20 Using natural analogues to build stakeholder confidence in geological disposal C.Tweed
- 15:00 Coffee*
- 15:20 Complementary indicators of safety with analogues H.Laine
- 16:00 Wrap-up discussion B.Kalinowski & J.Tanskanen
- 16:15 Close R.Alexander
- 19:30 Dinner in the hotel*

### **Friday, 13<sup>th</sup> May Field excursion**

The field excursion will take in some of the more spectacular hyperalkaline springs of Mount Olympus along with the significant bentonite sampling sites of CNAP in and around the Troodos Massif. Lunch (sandwiches) will be provided by the hotel. It is strongly recommended that decent walking boots be worn due to the rugged terrain. The weather in May is likely to be warm and dry, but the highest site is at 1600 m in a north-facing gully and so will be a lot cooler than at the hotel on the south coast.

- 09:00 Leave hotel
- 18:00 Return to hotel
- 19:30 Closing dinner*