

International Post - TIMODAZ Workshop

THM effects in clay host rocks for radioactive waste repositories

Mont Terri rock laboratory (visiting centre), Saint Ursanne, Switzerland
6/7 February 2012

Between 2006 and 2010, the TIMODAZ European project has investigated the coupled thermal-hydro-mechanical (THM) effects onto clay formations that are being studied as host rocks of geological repositories for radioactive waste. The International Post - TIMODAZ Workshop, that will take place at the Mont Terri rock laboratory, is organized:

- To present the main TIMODAZ results;
- To invite contributions in the area of the THM analysis of nuclear waste disposal systems;
- To foster informal discussions and exchanges on THM issues in clays host rocks.

External contributions are hence most welcome. Poster sessions are also foreseen. Contributions could include the characterization of host rock materials, the description and analysis of underground laboratory experiments, microstructural and multiscale analysis, constitutive and numerical modeling and long-term behaviour.

Important dates:

- Abstracts submission: 31. Dec. 2011
(*max. 200 words by e-mail to xli@sckcen.be*);
- Abstracts acceptance: 15 Jan. 2012
- Final program: 20 Jan. 2012

A website will be opened from mid-Dec. 2011 for practical organization issues: Registration, hotel list with link, location plan and access description, etc.

SCIENTIFIC COMMITTEE:

Members: Robert Charlier (ULg); Pierre Delage (Navier/CERMES), Antonio Gens (UPC Barcelona), Vincent Labiouse (EPFL), Lyesse Laloui (EPFL), Xiangling Li (EURIDICE); Yu LI (SCK), Jiaroslav Pacovsky (CEG-CTU); Tim Vietor (NAGRA), Cino Viggiani (UJF); ChunLiang Zhang (GRS)

ORGANISATION COMMITTEE:

Severine Levasseur (ULG)
Xiangling Li (EIG EURIDICE)
Christophe Nussbaum (swisstopo.ch)

Official Language: English

WORKSHOP PROGRAMME - Monday 6 February

	9:00	Opening of the Workshop	Paul Bossart
	9:15	The Timodaz European Project	Xiang Ling Li
	<hr/> Session 1 : Invited lectures – Chairwoman: Xiangling Li <hr/>		
	9:30	Geomechanics for nuclear waste disposal	Antonio Gens
	10h15	COFFEE BREAK	
	10h30	Coupling geomechanics and flow and transport: some recent studies at the Berkeley Laboratory	Jens Birkholzer/Jonny Rutqvist
Monday , February 6	11h15	Advanced laboratory experimental techniques for measuring deformation of clays at the micro and macro scale	Cino Viggiani
	12:00	LUNCH (catering service)	
	<hr/> Session 2 : Laboratory experiments – Chairman: ChunLiang Zhang <hr/>		
	13:30	<i>Key lecture:</i> Laboratory experiments in TIMODAZ: Summary and achievements	Pierre Delage
	14:15	Contributions (NAGRA and others)	
	15:15	<i>Key lecture:</i> Simulation tests in TIMODAZ: Summary and achievement	Vincent Labiouse
	16:00	COFFEE BREAK	
	16:15	Additional contributions	
	18:00	End session	
	18:30	Walking dinner in the workshop hall (catering service)	

WORKSHOP PROGRAMME - Tuesday 7 February

Tuesday , February 7

Session 3: In situ experiments - Chairmen: Pierre Delage and Jiaroslav Pacovsky

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| 9:00 | <i>Key lecture:</i> In-situ experiments in Timodaz | Tim Vietor |
| 9:45 | <i>Key lecture:</i> Induced fractures at the Meuse Haute-Marne URL: geometry and properties | Gilles Armand |
| 10:30 | COFFEE BREAK | |
| 10:45 | Contributions | |
| 12:00 | LUNCH (catering service) | |

Session 4 : Modelling/Benchmarks – Chairman : A. Gens

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| 13.30 | <i>Key lecture:</i> Numerical modeling in TIMODAZ: developments and achievements | Robert Charlier |
| 14:15 | Contributions | |

Session 5 : Safety Case of geological repository of nuclear waste - Chairman : Xavier Sillen

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| 16h00 | <i>Key lecture:</i> integration of TIMODAZ results within the Safety Case | Yu Li |
| 16h45 | Visit of MT rock laboratory | |
| 18h00 | Closure of Workshop | Xiangling Li, Paul Bossart |