

### **FINAL PROGRAMME**

## Day 1 - Wednesday 21st of November 2018

8:45 – 9:30	Welcome / Registration
9:30 – 9:50	Opening speech by Ineris, GeoRessources & Andra
9:50 - 10:30	Opening Keynote Presentation on the Technical challenges
	of in situ stress measurements - O. Stephansson (Germany)

#### Session 1: Stress measurement Tools - Chairman: Prof. M. Ask

10:30 - 11:00	Invited talk - LVDT cell method – quality control of in situ
	stress measurements - <u>M. Hakala (</u> SMCOY, Finland)
11:00 - 11:20	Experience of using the ANZI strain cell for overcore
	measurements and stress change monitoring – K. Mills &
	J. Puller (SCT Operations, Australia)
11:20 - 11:40	Towards a 3D shrinkage measurement in concrete using an
	embedded strain sensor – Y. Lecieux, C. Lupi, D. Leduc, M
	François, E. Roziere (U. Nantes, France)
11:40 - 12:15	Debriefing, questions and free exchanges

#### LUNCH between 12:15 and 13:30

### Session 2: Case Studies - Chairman: Dr Y. Gunzburger

13:30 - 14:00	<b>Invited talk</b> - An overview of 15 years of stress measurements
	performed at the Meuse /Haute-Marne Underground
	research laboratory – <u>G. Armand</u> & E. Huret (Andra, France)
14:00 - 14:20	Integration of induced seismicity, stress relief and hydraulic
	methods for stress measurements in crystalline rocks -
	H. Krietsch, V. Gischig, K. Evans, J. Doetsch, B. Valley, A. Florian
	(ETH Zurich, Switzerland)

14:20 - 14:40	Stress measurement and monitoring in a deep mine for
	rockburst prevention – <u>A. Tonnellier &amp; V. Renaud</u> (Ineris,
	France)
14:40 - 15:00	Influence of thermal stress on borehole breakout formation
	and its impact on stress magnitude estimation - B. Valley
	(CHYN, Switzerland)
15:00 – 15-30	Debriefing, questions and free exchanges

### Coffee Break between 15:30 and 16:00

### Session 3: Stress measurement Tools Continued - Chairman: Pr. O. Stephansson

16:00 – 16:30	Invited talk - The LTU stress trailer – a new infrastructure for
	deep rock stress measurements - <u>D. Ask</u> (FracSinus/LTU,
	Sweden) & M. Ask (LTU, Sweden)
16:30 – 16:50	Reliability of the HFSM reopening equations with focus on
	anisotropic rocks – <u>S. Guido</u> (Sial.tec, Italy)
16:50 – 17:10	Long-term experience with stress state determination using
	gauge probe CCBO(M) in various type of rock mass - P.
	Waclawik, L. Stas, K. Soucek, M. Vavro (The Czech Academy of
	Sciences, Czech Republic)
17:10 - 17:40	Debriefing, questions and free exchanges

### End of Day 1 around 17:40

Social Dinner downtown at 19:00, at Le Grand Café Foy

# Day 2 - Thursday 22<sup>nd</sup> of November 2018

8:45 – 9:00 Welcome Coffee

#### Session 4: Case Studies Continued - Chairman: K. Mills

9:00 - 9:30	Invited talk - Stress measurement for evaluating nickel ore
	liquefaction during sea carriage - P. Bigarré (Ineris, France)
9:30 - 10:00	The role of stress monitoring into dams behaviour analysis-
	E. Grimal, R. Tajetti (EDF, France) & C. Nadim (Antea, France)
10:00 - 10:20	Toward deep stress measurements near active seismic fault –
	M. Conin (GéoRessources, U. Lorraine, France)
10:20 - 10:40	Debriefing, questions and free exchanges

#### Coffee Break between 10:40 and 11:00

11:00 – 12:00 Closing Round Table, with O. Stephansson, D. Ask, M. Ask, M. Hakala, P. Bigarré, K. Mills - MC Dr Y. Gunzburger & C. Balland

Final Comments & Closing at 12:00

Group 1 – Departure for site visit (lunch bag provided), back to Nancy at 19:00

Group 2 – Lunch followed by laboratory visit, end of day around 16:00