

FINAL PROGRAMME

Day 1 - Wednesday 21st of November 2018

- 8:45 9:30 Welcome / Registration ROOM A004
- 9:30 9:50 **Opening speech** by Ineris, GeoRessources & Andra AMPHI 100
- 9:50 10:30 **Opening Keynote Presentation** on the Technical challenges of *in situ* stress measurements <u>O. Stephansson</u> (Germany)

Session 1: Stress measurement Tools - Chairman: Prof. M. Ask AMPHI 100

- 10:30 11:00 Invited talk LVDT cell method quality control of *in situ* stress measurements <u>M. Hakala (SMCOY, Finland)</u>
- 11:00 11:20 Experience of using the ANZI strain cell for overcore measurements and stress change monitoring <u>K. Mills &</u> J. Puller (SCT Operations, Australia)
- 11:20 11:40 Towards a 3D shrinkage measurement in concrete using an embedded strain sensor <u>Y. Lecieux, </u>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 ROOM A004

Session 2: Case Studies - Chairman: Dr Y. Gunzburger AMPHI 100

- 13:30 14:00 **Invited talk** An overview of 15 years of stress measurements performed at the Meuse /Haute-Marne Underground research laboratory <u>G. Armand & E. Huret (Andra, France)</u>
- 14:00 14:20 Integration of induced seismicity, stress relief and hydraulic methods for stress measurements in crystalline rocks <u>H. Krietsch</u>, 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 & V. Renaud (Ineris, France)</u>
- 14:40 15:00 Influence of thermal stress on borehole breakout formation and its impact on stress magnitude estimation - <u>B. Valley</u> (CHYN, Switzerland)
- 15:00 15-30 Debriefing, questions and free exchanges

Coffee Break between 15:30 and 16:00 ROOM A004

Session 3: Stress measurement Tools Continued - Chairman: Pr. O. Stephansson AMPHI 100

16:00 - 16:30	Invited talk - The LTU stress trailer – a new infrastructure for deep rock stress measurements - D. Ask (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 20:00, at Le Grand Café Foy, Place Stanislas



Day 2 - Thursday 22nd of November 2018

8:45 – 9:00 Welcome Coffee ROOM A004

Session 4: Case Studies Continued - Chairman: K. Mills AMPHI 100

9:00 - 9:30	Invited talk - Stress measurement for evaluating nickel ore
	liquefaction during sea carriage - <u>P. Bigarré</u> (Ineris, France)
9:30 - 10:00	The role of stress monitoring into dams behaviour analysis-
	<u>E. Grimal, R. Tajetti</u> (EDF, France) & <u>C. Nadim</u> (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 ROOM A004

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