

08:30 - 09:30	Registration - Welcome coffee
09:30 - 10:00	Conference kick-off: Andra: E. Huret (Deputy Director of Research and Development - Meuse/Haute-Marne Center) - GeoRessources: P. de Donato (Deputy Director) - Ineris: R. Cointe (General Manager) - Université de Lorraine: F. Villieras (Vice-President in charge of Scientific Council)
10:00 - 11:00	Keynote 1: A.P.S. SELVADURAI Thermo-hydro-mechanical processes in complex rocks
	SESSION 1a - Chairmen : F. Darve & R. Borja
11:00 - 11:15	R. Giot, S. Hédan and P. Costenza Hydro-mechanical numerical modelling of the opening and closing of desiccation cracks in claystone
11:15 - 11:30	M. Tafli and T. Triantafyllidis Cyclic response of Kaolin and Lower Rhine clay: Experimental analysis and constitutive modeling
11:30 - 11:45	E.E. Dagher, T.S. Nguyen and J.A. Infante Sedano Assessing mechanisms of mechanical deformation to simulate two-phase flow in a swelling geomaterial
11:45 - 12:00	L. Cheng, S. Brach and A. Giraud Micromechanical and numerical modeling of porous geomaterials with a general plastic matrix
12:00 - 12:15	Y.Tong, W.Q. Shen and J.F. Shao Crack propagation study in rock-like materials using coupled PD-FEM method
12:15 - 13:30	Lunch
13:30 - 13:45	Welcome to Nancy Mines: F. Rousseau (General Manager)
13:45 - 14:30	Keynote 2: J. Sulem Numerical modelling of strain localisation in fault zones
	SESSION 2a - Chairmen: M. Gutierrez & F.V. Donzé
14:30 - 14:45	F.V. Donzé, A. Tsopela, Y. Gugliemi, P. Henry and G. Gout Pressurized fluid flow within the mechanical stability domain of fault zones in shale
14:45 - 15:00	A. Pouya, H. Tounsi and J. Rohmer Coupled hydro-chemo-mechanical model for fault activation under reactive fluid injection
15:00 - 15:15	F. Nicot and F. Darve Tracking the origin of failure in granular materials: going down to the microscale
15:15 - 15:30	B. Fryer, G. Siddiqi and L. Laloui Depletion-induced permeability loss and its effect on induced seismicity
15:30 - 15:45	P. Blum, D. Vogler, J.O. Schwarz, F. Wendler, F. Enzmann, F. Amann, L. Pastewka and T. Kling Mechanical and chemical closure of fractures
15:45 - 16:00	F. Darve How artificial intelligence will mitigate natural risks?
16:00 - 16:30	Coffee break
	SESSION 2b - Chairmen: R. Ababou & G. Armand
16:30 - 16:45	A. Argilaga, R. Charlier, M.N. Vu and F. Collin Hydro-mechanical study of nuclear waste geological repositories in Callovo-Oxfordian claystone: MAVL excavation and bentonite plugs
16:45 - 17:00	E.D. Coarita-Tintaya, M. Souley, M.N. Vu and F. Golfier Long-term anisotropic hydro-viscoplastic modeling of a drift at the Meuse/Haute-Marne URL
17:00 - 17:15	M.N. Vu, L.M. Guayacán-Carillo and G. Armand Excavation induced over pore pressure around a drift in Callovo-Oxfordian claystone
17:15 - 17:30	R. Ababou, I. Cañamon, A. Poutrel and A. Udias Upscaling theory for coupled hydro mechanics in 3D fractured porous rock (Application to damaged claystone around a drift)
17:30 - 17:45	Z. Yu, JF Shao and D. Seyedi Modeling of damage with THM coupling by a phase field method and application to disposal of radioactive waste
17:45 - 18:00	T.S. Nguyen and Z. Li Constitutive model development and field simulation of excavation damage in bedded argillaceous rocks
19:30	Gala dinner

09:00 - 10:00	Keynote 3 - R.I. Borja On the strength of transversely isotropic rocks
	SESSION 3a - Chairmen: M. Gutierrez & F.V. Donzé
10:00 - 10:15	L. Scholtès and F.V. Donzé Strength of anisotropic shale rocks: Empirical nonlinear failure criterion and discrete element modeling analysis
10:15 - 10:30	W. Shen, J.F. Shao and D.Kondo Approximate criterion for porous geomaterials having two populations of pores
10:30 - 11:00	Coffee break
	SESSION 3b - Chairmen: R. Charlier & F. Nicot
11:00 - 11:15	N.T. Tran, D.P. Do and D. Hoxha Time-dependent reliability analysis of lined tunnel within the linear viscoelastic Burger rocks using the response surface method
11:15 - 11:30	L. Flessati and C. di Prisco Deep tunnel fronts in cohesive soils under undrained conditions: application of a new front reinforcements design approach
11:30 - 11:45	V. Martyniak, F. Emeriault, R. Plassart and F. Laigle Stress evolution in deep tunnel concrete lining
11:45 - 12:00	Z.Y. Yin, J. Yang, F. Laouafa and P. Y. Hicher Hydro-mechanical modeling of granular soils considering internal erosion
12:00 - 12:15	J. Yang et al. A coupled hydromechanical modelling of internal erosion around shield tunne
12:15 - 13:45	Lunch
13:45 - 14:45	Keynote 4 - L. Laloui THM behaviour of bentonite-based materials
	SESSION 4a - Chairmen: Z.Y. Yin & A. Giraud
14:45 - 15:00	S. Menon and X. Song A fully coupled state-based peridynamic hydromechanical model for geomaterials
15:00 - 15:15	J. Yang, Z.Y. Yin, F. Laouafa and P.Y. Hicher A coupled hydromechanical modelling of internal erosion around shield tunnel
15:00 - 15:15	S. Prassettyo and M. Gutierrez Coupled hydro-mechanical modeling of advancing tunnel in deep saturated ground
15:15 - 15:30	M. Barla, A. Insana and F. Zacco Thermal performance of an energy tunnel prototype: experimental and numerical investigations
15:30 - 16:00	Coffee break
	SESSION 4b - Chairmen: A Pouya & S Nguyen
16:00 - 16:15	R. Ghazal, C. Darcel, M. Fuenzalida and M. Pierce Modeling primary fragmentation in cave mines using BBM (Bonded Block Modeling)
16:15 - 16:30	T. Georgieva, F. Descamps, N. Gonze and J.P. Tshibangu Stability assessment of an abandoned underground chalk quarry
16:30 - 16:45	V. Renaud, A. Cherkaoui, J.M. Watelet and P. Gombert Instability mechanisms of chalk mines in presence of water: feedback from the collapse of the Baulieu mine (France)
16:45 - 17:00	E. El Kahia, M. Khouri, O. Deck, P. Rahme and R. Mehdizadeh Propagating uncertainties to evaluate confidence intervals on the transmission of ground movements
17:00 - 17:15	X.P. Nguyen, M. Camusso, D. Billaux and A. Pasteau Investigating the mechanical behavior of a surface repository for low and intermediate-level short-lived radioactive waste
17:15	CIGEO repository project by G. Armand (ANDRA)