Advanced methods for the characterization of the durability of porous media

The CNRS Research Group MeGe activities have given major results, particularly in nonlinear poro-mechanics, in modeling and numerical simulation of couplings in dry granular media, and in homogenization of coupled reactive transfers in cementious materials. This structuring made it possible to identify three main themes of work in the International Research Group GdRI GeoMech, which are particularly in line with the major societal challenges that Europe wants to meet in the framework of the Horizon 2020 research program:

- Task 1: Catastrophic ruptures and generating mechanisms
- Task 2: Safety of storage tanks
- Task 3: Energetic geomechanics

In particular, developing sustainable living spaces, in a context of climate change, requires being able to finely model the behaviour of soils and concrete structures, at various scales, in a context of multi-physical coupling. As we know, the climate change that we are experiencing induces extreme phenomena whose consequences on soils, and in particular on the stability of soils and surface formations, are dangerous. The conclusions of the experts remain unanimous on the fact that these phenomena will amplify, as well in intensity as in terms of frequency. At the same time, controlling the CO2 storage or radioactive waste, as well as the use of alternative energy resources, are issues of global importance for the companies of the future. In line with the research activities of GdRI GEROMECH, this thematic school is proposed to initiate and / or train researchers in the development of new digital and experimental technologies to characterize the behaviour of materials in their (future) environment.

Please visit the website for all information: https://bit.ly/32Q86A0

New !
Follow the courses in direct on a website for a special fee of 100 € HT.

Registration
Registration deadline: October 25th 2019
Withdrawal deadline: November 8th 2019

Fees
- Engineers and junior or senior researchers of public institution: 400 € HT*
- PhD students: 200 € HT*
- PhD students of ED SPI: free of charge (with motivation letter sent to frederic.grondin@ec-nantes.fr)
- Engineers, junior and senior researchers of private institution: 800 € HT*
- CNRS agents: free of charge
*100 € HT for distant participation

The registration fees include three fixed lunches, hot beverages, downloadable lecture notes, wi-fi internet access.

For CNRS agents, accommodation, lunches and dinners are offered by organizers.

Application forms should be filled on line on: https://www.azur-colloque.fr/DR17/inscription

A confirmation e-mail will be sent to applicants.

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