

SEMINAIRE DE MECANIQUE

MARDI 08 juillet 2008 à 10h30

Salle 04 Bât 22-23 Campus de Beaulieu/Rennes

UFR Math/IRMAR

Bernardo Caicedo

PhD

Université des Andes, Colombie; LCPC Nantes

« Recent Advances in Centrifuge Modeling for Unsaturated Soils »

Résumé :

Centrifuge modelling offers vast possibilities on the modelling of problems related with unsaturated soils: expansive soils, slope stability, effects of drought.... However, to perform physical models in centrifuge with unsaturated soils it is necessary to adapt the techniques currently used for saturated soils or dry sands.

This presentations describes some techniques adapted to the study of unsaturated soils in centrifuge: soil preparation and compaction, instrumentation (SASW technique, use of psychrometers and capacitive sensors), and atmospheric actuators (rain, climatic chamber).

Contact : <mailto:bcaicedo@uniandes.edu.co>
: <mailto:juan.martinez@insa.rennes.fr>