



The executive board of the University of Chlef



Sidi Marouan Beach



Boucheghal Beach

### KEY DATES

- Deadline for abstract submission: **30<sup>th</sup> June 2023**
- Author feedback: **31<sup>st</sup> July 2023**
- Extended papers submission: **30<sup>th</sup> November 2023**
- Final acceptance notification: **29<sup>th</sup> February 2024**

Link to the homepage for submissions and registrations :

<https://cmt3.research.microsoft.com/UNSATC2024>

### REGISTRATION FEE

(Including access to the Conference, technical site visits, coffee breaks, ice-breaker welcome and lunches.)

	Fees
• Student	<b>5.000 AD</b>
• Full	<b>8.000 AD</b>
• Other	<b>12.000 AD</b>

### CONTACT

#### UNSAT Chlef-2024 Secretariat

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*Abstracts and conferences should not be sent by email but via the home page link indicated previously.*



**The University Hassiba Benbouali of Chlef**

Faculty of Civil Engineering and Architecture

**Laboratoire of Materials Sciences  
and Environment (LsmE)**

**&**

**LSGR Laboratory**

In collaboration with :

**UNSAT-DZ network**



Organize :

**The 6<sup>th</sup> International Conference  
on Unsaturated Soils**

*theme*

**Unsaturated Soils and Seismic**

**UNSATChlef 2024**

**Chlef, 20<sup>th</sup> and 21<sup>st</sup> November 2024**

In collaboration with :

University of Tlemcen

Faculty of Technology, EOLE Laboratory

University Le Havre Normandie

Laboratory LOMC, CNRS UMR 6294



## PRESENTATION AND SCOPES

Since its creation on the sidelines of the International Colloquium on Unsaturated Soils (U. Tlemcen 2009), the UNSAT-DZ network has continuously developed and now has twenty-three research teams including one Tunisian and five Europeans (unsat-dz.org).

The main objective of the UNSAT-DZ network is to provide an exchange space for university research teams dealing with unsaturated soils, particularly in terms of knowledge exchange, mutual scientific and technical assistance. In this context, UNSAT-DZ organizes its International Colloquium every three years (UNSATlemcen 2009, UNSATAlgier 2012, UNSATBatna 2015, UNSATOran 2018 and UNSATOuargla 2021). The University of Chlef is selected to organize the 6<sup>th</sup> edition of this Colloquium on November 20<sup>th</sup> and 21<sup>st</sup>, 2024. UNSATChlef 2024 conference is a new opportunity to join together academicians and professionals with the respect to the field of unsaturated soils in order to share their knowledge experience, expertise, opinions and experiences. These exchanges are framed in harmony with the overall theme and the sub-topics suggested for this 6<sup>th</sup> Colloquium.

The themes covered are chosen in such a way to highlight the typical geotechnical problems encountered in the region of Chlef ; practitioners are sometimes confronted with soil behavior that is poorly explained in the technical literature, and sometimes to design techniques that are unsuited to the specific geo-environmental context and climatic framework. Soil, in its various aspects of use (structure support, construction material and/or cultivated soil) is a complex material which has joined together, for a long time, geotechnicians and agronomists around concepts of common interest such as the influence of water content on soil behavior. This symposium is a new opportunity to erase the boundaries between the sciences and establish interdisciplinarity for open research that puts people at the center of its concerns.

## SIDE ACTIVITIES

### 1- PHD COURSE

The day before the opening of the Colloquium, a PhD course on unsaturated soils comprising a lecture, tutorials and a series of practical works is organized. This course is intended for geotechnical doctoral students who work on themes involving non-saturation of soils.

## 2- WORKSHOP ON TEACHING THE MECHANICS OF UNSATURATED SOIL

This workshop will bring together teachers/researchers involved or interested in teaching this discipline. It will constitute a space for the exchange of experiences, reflection and debate on how to teach this discipline for future engineers (master's level) and doctoral students. The recommendations of this workshop will be forwarded to the supervisory authority.

### 3- MT180 COMPETITION

In addition, doctoral students are invited to attend the "My Thesis in 180 seconds" competition. Awards will be granted to the winners.

## TOPICS

### **Topic1 : Hydromechanical behavior of unsaturated soils**

Characterization of the behavior of unsaturated soils subjected to mechanical and hydric loads. Microscopic aspects and macroscopic behaviors. behavior laws. Experimental and numerical analyses.

### **Topic2 : Transfers in unsaturated soils**

Solid transport, infiltration, drainage, evaporation, heat transfers. Experimental measurements and modeling.

### **Topic3 : Seismicity of unsaturated soils and dynamic solicitations**

Behavior of unsaturated soils in seismic areas. Liquefaction of unsaturated soils. Protection earthwork against rockfall and avalanche. Load-bearing embankments subjected to shocks. Road geotechnics and rail traffic.

### **Topic4 : Eco-construction in baked earth**

Hydromechanical and hygrothermal behavior of eco-materials made from raw earth. Laboratory measurement and on scale 1 structures. Modelling.

### **Topic5 : Physics of unsaturated soils - natural and cultivated environments**

Natural Ecosystem and Agrosystem. Laboratory and in-situ measurements. Physical behavior, structure, texture and hydrophysics of unsaturated soils. Controlled irrigation.

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