

Topic 1 Pathology and rehabilitation of structures

Structures are liable to be degraded over time by a wide variety of damage mechanisms, so it is necessary to have a deep knowledge of pathologies, diagnostic methods and, especially, the different methods and technics of management and repair. The lack of a real policy for the monitoring and maintenance of structures in our country encourages us to propose research aiming to understand the main actions in pathological structures degradation and thus propose the appropriate diagnostics and repair technics.

Topic 2 Seismic engineering of infrastructure

Seismic engineering is a field of engineering that aims to design and build structures capable of resisting the effects of earthquakes. Earthquakes are natural phenomena that can cause significant damage to structures and infrastructures. Development in this research field aims to improve the resilience of structures and infrastructures to earthquakes by using advanced numerical modeling technics, studying the properties of materials used in construction, and developing construction standards and regulations to guarantee the safety of structures. Seismic engineering aims to promote safe, sustainable construction, reduce earthquake damage and protect people lives.

Topic 3 Application of BIM technology in the infrastructure field

Building Information Modeling (BIM) is a revolution in technology in the building sector where it has proven itself throughout the life cycle of a building. This reality has led in recent years to an extension of this concept to the Civil Engineering sector and in particular for infrastructure projects. The common objective is to facilitate the exchange of data and collaboration around these projects between the various stakeholders. In this context, this research theme focuses on the integration of BIM technology in the context of infrastructures to increase efficiency at each stage of the life cycle of civil engineering projects.

Topic 4 Geomaterials and Environment

The main scientific challenges in civil engineering are essentially due to the interaction of two main fields: geotechnics and innovative materials (geo-materials). Experimentation, physical-chemical and mechanical analysis, and numerical modeling, from the scale of geo-materials to that of structures, are at the center of the various subjects treated in this thematic. Structures and civil engineering structures are at the heart of this field, with the development of eco-efficient materials, new soil improvement techniques to meet national economic and environmental requirements, ecosystem restoration, water resources management and infrastructure planning.

The Democratic and Popular Republic of Algeria
Ministry of Higher Education and Scientific Research
Abdelhamid Ibn Badis University of Mostaganem



**Laboratory Materials and Processes
of Construction (LMPC)**

&

Civil Engineering Department
organize on 11/30/2023
with the collaboration of
Sciences and Technology Faculty

National Seminar
**New Technologies and Infrastructure
Development in Civil Engineering**



Sponsored by:



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In collaboration with the Faculty of Sciences and Technology (F.S.T) and Civil Engineering Department, the Laboratory Materials and Processes of Construction (LMPC) is organizing a National Seminar on New Technologies and Infrastructure Development in Civil Engineering, on November 30th, 2023 at Site 1 of Sciences and Technology Faculty, Abdelha-mid Ibn Badis University, Mostaganem.

Seminar topics are:

Topic 1: *Pathology and rehabilitation of structures*

Topic 2: *Seismic engineering of infrastructure*

Topic 3: *Application of BIM technology in the infrastructure field*

Topic 4: *Geomaterials and Environment*

Speakers from all disciplines interested in the seminar themes are invited to respond to this call by submitting an article in French or English in Word or PDF format of 04 to 06 pages maximum (see [Template](#)) via the following link:

Submission Form and Registration

IMPORTANT DATES

Inscription & paper Submission: 09/17/2023 to 10/17/2023

Acceptance notification: 10/27/2023 to 11/05/2023

Confirmation of participation: 11/06/2023 to 11/12/2023

Registration Fees:

Students researchers : 2000 DA

Academic researchers : 4000 DA

Professionals : 8000 DA

Registration fees cover :

- * Seminar documents
- * Coffee break
- * Lunch

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