

ONE DAY WORKSHOP

Smart Infrastructure Management



December 22, 2025



9 AM - 5:30 PM



Lebanese University, Roumieh

Overview

Organized by QuadS and the Engineering Faculty – Branch 2 of the Lebanese University, this workshop aims to showcase opportunities for using new technologies and data to extend the life of existing civil structures and ensure soil stability, drawing on experience of industry experts from France.

Audience

Engineers, researchers, faculty, and students in civil infrastructure.

Objectives

Knowledge Transfer: Equip students and faculty with advanced skills in SHM, civil asset management, and seismic soil behavior analysis.

Technical Demonstration: Provide hands-on exposure to cutting-edge monitoring equipment, auscultation methods, and diverse sensor technologies.

Network Building: Connect students with alumni and industry leaders to strengthen ties between the Lebanese and French engineering communities.

Program

09:00 Workshop Opening

LU Director, Dr. Dalia Abdel Massih, and ASCE Chapter – Lebanese University

09:30 Detection, Assessment, and Treatment of Corrosion in Reinforced Concrete

Chantal Chalhoub – CORROHM

10:00 Evaluating the Structural Behavior of Civil Infrastructures Exposed to Fire

George ROUFAEL – Efectis FRANCE

10:30 Extending Infrastructure Durability Using Low-Carbon Binders

Marinelle El Khoury – Toulouse University

11:00 Coffee Break

12:00 Structural Health Monitoring of Bridges

Antoine Bassil – QuadS

12:30 Predictive Maintenance of Building Structures

Carine Geara – Apave

13:00 Inspection and Monitoring of Underground Structures

Hadi Karam – Artelia Group

13:30 Lunch Break & Demonstration Session

15:45 Structural Health Monitoring Using Seismic Noise

Cécile Cornou – ISTerre

16:15 Listening to the Earth: How Lebanon Monitors and Understands Its Seismic Activity

Hiba Labaki – National Center for Geophysics. CNRS

16:45 Subsurface Monitoring Using Active and Passive Seismic Methods

Eliane Youssef – ISTerre

17:15 Closing Notes



Register now, limited seats available

<https://quad-s.eu/fr/smart-infrastructure-workshop>