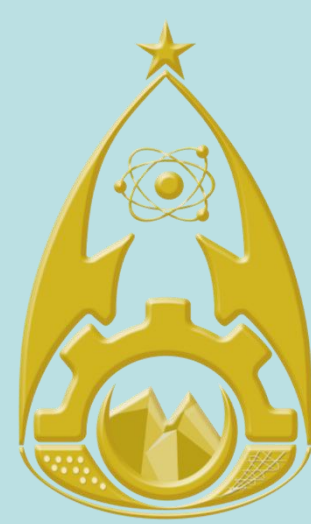
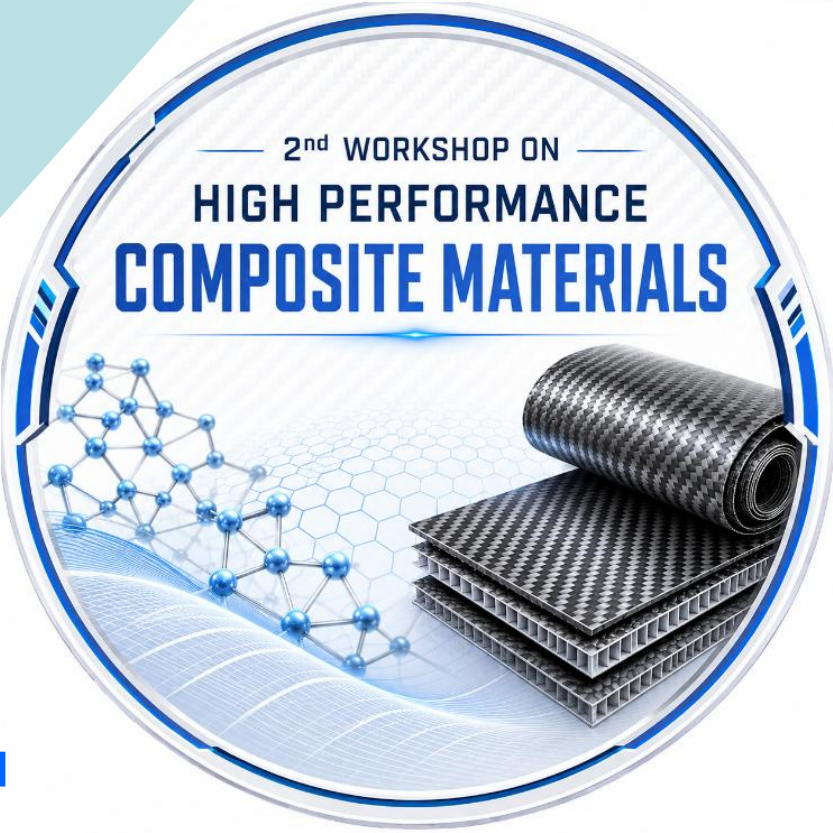




ÉCOLE MILITAIRE POLYTECHNIQUE
CHAHID TALEB ABDERRAHMAN

THE 2nd WORKSHOP ON
HIGH-PERFORMANCE
COMPOSITE
MATERIALS



NOVEMBER
24
2026
BORDJ EL BAHRI,
ALGIERS, ALGERIA

OVERVIEW

The 2nd Workshop On High-Performance Composite Materials (WHCM) will be organized by the Ecole Militaire Polytechnique (EMP) in Bordj El Bahri, Algiers, on November 24th 2026. It aims to take stock of the progress and technical scientific advances in the field of composite materials, by creating an environment for discussion, meetings, and exchanges between academics, researchers, students, and industry professionals. The contributions from participants will be in various themes related to all types of composites, classified according to their nature, their architectures and microstructures, as well as their manufacturing methods and techniques. Crosscutting themes will also be addressed, such as characterization methods, relationships between manufacturing-microstructure-properties, and structures. Industry professionals will also have the opportunity to present their products or services through a dedicated session.



Mechanical and
physicochemical
characterization
of composites



Modeling and
simulation of
composite
materials



Green bio based
composite
materials



Design and
applications
of composite
materials

MAIN TOPICS



Mechanical and physicochemical
characterization

- Standard mechanical testing methods for composites
- Microstructural analysis and property relationships
- Thermal and chemical stability assessments
- Nondestructive evaluation techniques for composites
- Interface characterization in composite systems
- Relationships between manufacturing, microstructure, properties and structures



Modeling and simulation
of composite materials

- Artificial intelligence in computational optimization of composite architectures
- Numerical modeling of composite failure mechanisms
- Simulation of manufacturing processes for composites
- Multiscale approaches in composite material design
- Predictive tools for composite durability and fatigue



Design and applications of
composites

- Advanced composites in aerospace and automotive sectors
- Design principles for lightweight composite structures
- Composites for energy storage and renewable applications
- Tailored composites for high-performance engineering
- Hybrid composites for multifunctional applications
- Advanced manufacturing technics (autoclave, infusion, 3D printing...)



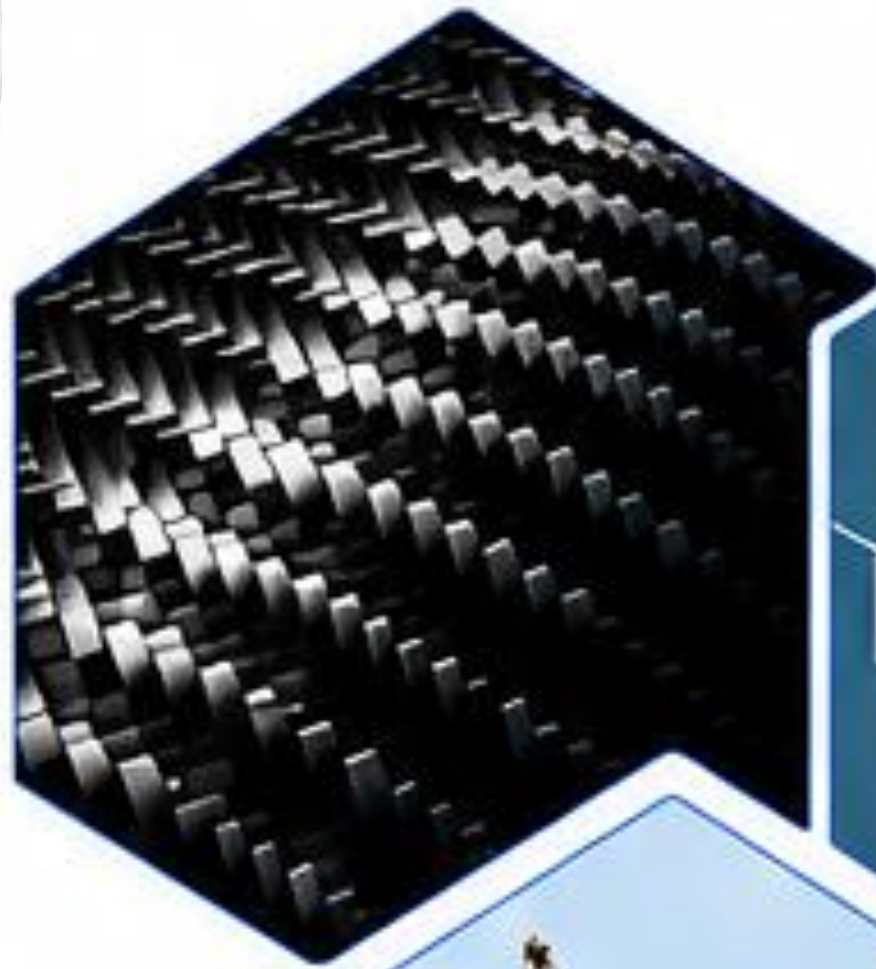
Green bio based composite
materials

- Natural fiber reinforcements in polymer composites
- Bio-based resins and sustainable matrices
- Environmental impact of green composites
- Processing techniques for bio-sourced materials
- Applications of eco-friendly composites in industry
- Durability, ageing and life-cycle assessment
- Smart and functional composite materials
- Standardization and quality control



CONTACTS

- BP 17 Bodj El Bahri, Algiers, Ageria
- 213 (0) 23 95 37 26
- 213 (0) 23 95 37 05
- JEMC@emp.mdn.dz
- <http://www.emp.mdn.dz/events/JEMC/index.html>



SCIENTIFIC COMMITTEE

- | | |
|--|--|
| Prof. ZITOUNE Redoune, ICA-Toulouse France. | Dr. DERADJI Mahdi, EMP, Algiers. |
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GENERAL CHAIRS

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- Dr. HAROUCHE Mohamed Karim

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- | | | |
|------------------|-----------------------|--------------------|
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| | • Dr. CHABANE H. | |



Student

5 000 DA

Academic

8 000 DA

Free participant

10 000 DA



ABSTRACT SUBMISSION
DEADLINE

30th

SEPTEMBER 2026



ACCEPTANCE
NOTIFICATION

10th

NOVEMBER 2026



FULL PAPER
SUBMISSION

15th

NOVEMBER 2026