CONFERENCE PROGRAMME

ICCR 2026

Advanced Materials in Engineering

7 oral presentations • 5 posters • **15 min / presentation • 10 min / poster**

DATE Friday, 13th November 2026

ONLINE LINK Advanced Materials in Engineering | ICCR-2026

CHAIR Assoc. Prof. Dr. Eng. Marina BUNEA

SECTION I

Oral Presentations

Each presentation: 15 minutes (talk and questions included). Session starts at 13:30.

01
ORAL
13:30–13:45

EVALUATION OF INDUSTRIAL COMPANY PERFORMANCE AND SUSTAINABILITY BASED ON QUALITY INDICATORS USING THE CAUSAL IDENTIFICATION METHOD

Mitică AFTENI*, Cezarina CHIVU, Gabriel FRUMUȘANU, Viorel PĂUNOIU, Florin SUSAC

Department of Manufacturing Engineering, Faculty of Engineering, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania

02
ORAL
13:45–14:00

ENVIRONMENTAL PERFORMANCE AND CIRCULAR ECONOMY POTENTIAL OF BIO-BASED MATERIALS FOR AUTOMOTIVE APPLICATIONS

Georgel MIHU*, Marina BUNEA

Department of Applied Sciences, Cross-Border Faculty, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania

03
ORAL
14:00–14:15

INTERNATIONAL STANDARDS AS A FRAMEWORK FOR DESIGN, TESTING, AND VERIFICATION OF MECHANICAL COMPONENTS

Iulia GRAUR*, Mariana Carmelia BĂLĂNICĂ DRAGOMIR, Geanina Marcela PODARU, Georgel MIHU

Department of Applied Sciences, Cross-Border Faculty, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania

04
ORAL
14:15–14:30

EPOXIDATION POTENTIAL AND POLYMERIZATION PATHWAYS OF CRUDE, REFINED AND WASTE VEGETABLE OILS

Marina BUNEA

Department of Applied Sciences, Cross-Border Faculty, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania

05
ORAL
14:30–14:45

BEYOND CONVENTIONAL METALLOGRAPHY – ADVANCED SEM-BASED MICROSTRUCTURAL CHARACTERIZATION OF METALLIC MATERIALS

Alina-Mihaela CEOROMILA[1,2]

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[2]*INPOLDE Research Center, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania*

06
ORAL
14:45–15:00

VALORIZATION OF SUNFLOWER BY-PRODUCTS INTO BIOPOLYMERS AND POLYMER COMPOSITES: A CRITICAL REVIEW OF PROCESSING, PERFORMANCE AND CIRCULARITY

Marina BUNEA[1*], Claudia Veronica UNGUREANU[2], Georgel MIHU[1]

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07
ORAL
15:00–15:15

RESEARCH ON ACTIVE BIOLOGICAL FILTRATION AND PROPOSALS FOR INNOVATIVE MATERIALS

Vasile BAȘLIU[1*], Ionel PETREA[2]

[1]*Department of Applied Sciences, Cross-Border Faculty, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania*
[2]*Department of Materials and Environmental Engineering, Faculty of Engineering, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania*

15:15–15:30 *Coffee break*

SECTION II

Poster Session

Poster session: 15:30–16:20, online. Authors present at their posters.

08
POSTER
15:30–15:40

FUNCTIONALIZED ECO-FRIENDLY BIOPOLYMERS FOR BIOMEDICAL APPLICATIONS: ECO-E-SKINS

Olivia CARANFIL[1*], Alina-Mihaela CEOROMILA[1,2]

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09
POSTER
15:40–15:50

ARTIFICIAL INTELLIGENCE AND ADVANCED MATERIALS IN SHIPBUILDING: AN INTERDISCIPLINARY APPROACH

Adriana BELALÎ, Iulia GRAUR

Department of Applied Sciences, Cross-Border Faculty, "Dunărea de Jos" University of Galați, 47 Domnească Street, 800008, Galați, Romania

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10
POSTER
15:50–16:00

ADVANCED MEDICAL TECHNOLOGIES: LAB-ON-A-CHIP DEVICES – CHALLENGES AND LIMITATIONS

Valeria ȘOIMU[1*], Alina-Mihaela CEOROMILA[1,2]

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11
POSTER
16:00–16:10

TOWARDS SUSTAINABLE CEMENT-BASED COMPOSITES FOR PAVING APPLICATIONS THROUGH THE INCORPORATION OF RECYCLED GLASS AND PET WASTE

Alina-Mihaela CEOROMILA[1,2*], Mihaela MALAI[1]

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12
POSTER
16:10–16:20

STUDIES AND RESEARCH ON THE INTRODUCTION OF NOVEL CLASSES OF THREE-DIMENSIONALLY PRINTED POLYMERIC MATERIALS

Vasile BAȘLIU[1*], Ionel PETREA[2]

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