



INTERNATIONAL SYMPOSIUM
„THE ENVIRONMENT AND THE INDUSTRY“

28th INTERNATIONAL SYMPOSIUM “ENVIRONMENT AND INDUSTRY”

PROGRAMME

**Bucharest, Romania
October 23rd-24th, 2025**

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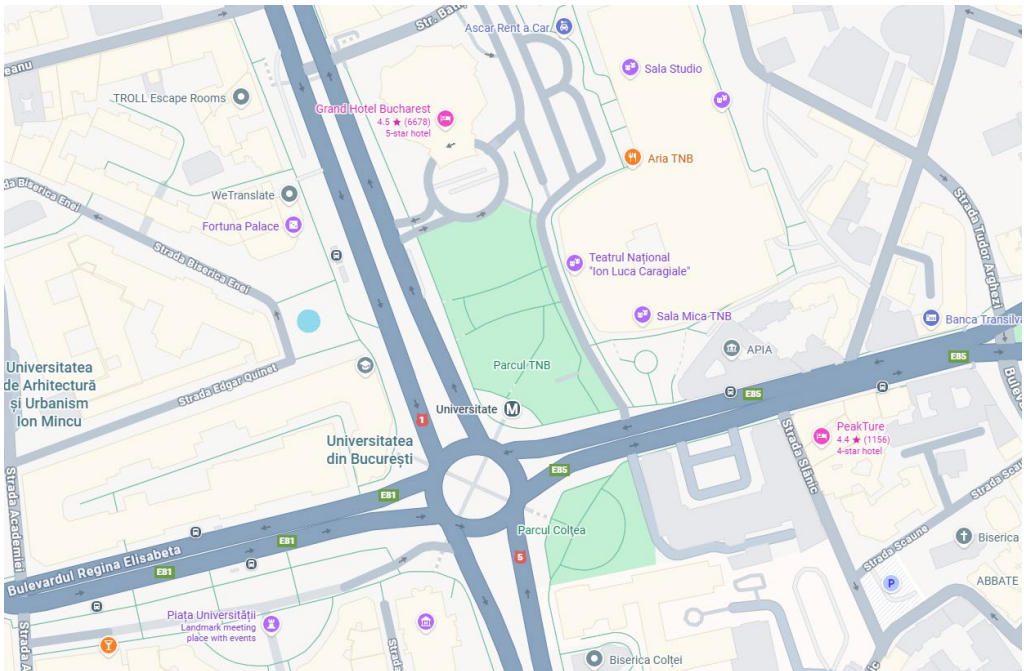
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The 28th International Symposium “Environment and Industry” – SIMI 2025 will be held in Bucharest, at the Grand Hotel Bucharest, no. 4 Nicolae Balcescu, 010051, Romania.

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Organizers

International Symposium

“The Environment and The Industry”

SIMI 2025



INTERNATIONAL SYMPOSIUM
„THE ENVIRONMENT AND THE INDUSTRY“

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Organized by:
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FOR INDUSTRIAL ECOLOGY

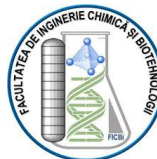
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Scientific Program

Day 1, Thursday, October 23, 2025

8 ⁰⁰ -9 ⁰⁰	REGISTRATION OF PARTICIPANTS
	FORTUNA HALL
	Symposium Opening <i>Chairs: General Manager INCD ECOIND Luoana Florentina Pascu</i> <i>Co-chair: Scientific Manager Olga Tiron</i>
9 ⁰⁰ -9 ³⁰	Prof. univ. dr. ing. habil. Cristina Orbeci – Dean of Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest – Prof. univ. dr. ing. habil. Daniel Dunea – Vice-rector Research for Science and Technology, Valahia University of Targoviste Ileana Luminița Balalau - Directorate for Sustainable Development Strategies, Programs, and Projects General Secretariat of the Government Department for Sustainable Development Michela Dina Stanescu - Acting President, Romanian Chemical Society
	(Session 1) Chairs: Costel Bumbac, Lucian Constantin
	THE WORLD'S WATER: LINKING POLICY AND HYDROLOGICAL CYCLES
9 ³⁰ -10 ⁰⁰	<u>Dr. Håkan Tropp</u> Sr. International Programme Manager Dept. of Research & Development (Hydrology) SMHI / Swedish Meteorological and Hydrological Institute, Sweden
	BUILDING SYSTEMIC RESILIENCE BY INTEGRATED APPROACHES
10 ⁰⁰ -10 ³⁰	<u>Likar Dijana</u> Innovation Manager, Institute for Research in Environment, Civil Engineering and Energy, IECE, North Macedonia
10 ³⁰ -11 ⁰⁰	Coffee Break and poster session

(Session 2)

Chairs: Lucian Constantin, Marius Bumbac

**THE ROLE OF THERMAL METHODS IN ADDITIVE
MANUFACTURING**

11⁰⁰-11³⁰

Ignazio Blanco

Department of Civil Engineering and Architecture DICAR
University of Catania, Italy

**EVALUATION OF THE TOXIC EFFECT OF SPONTANEOUS
PLANTS FROM THE ALGERIAN SAHARA AGAINST THE
VINEGAR FLY**

11³⁰-12⁰⁰

Wafa Habbachi

Badji Mokhtar Annaba University, Algeria

POLYMER RECYCLING BY RADIATION PROCESSING

12⁰⁰-12²⁰

Traian Zaharescu

Senior Researcher at National Institute for R&D in Electrical
Engineering ICPE-CA, Romania

**FILLING POLYMERS WITH PURPOSE: SUPRAMOLECULAR
CHEMISTRY AT WORK IN CIRCULAR ECONOMY**

12²⁰-12⁴⁰

Marius Bumbac

Faculty of Sciences and Arts, Valahia University of Targoviste,
Romania

**BRIDGING THE GAP: FROM RESEARCH TO APPLICATION
IN RESIDUAL PLANT BIOMASS VALORIZATION**

12⁴⁰-13⁰⁰

Cristina Mihaela Nicolescu

Institute of Multidisciplinary Research for Science and Technology,
Valahia University of Targoviste, Romania

**TOWARDS A CIRCULAR WATER FUTURE
THE WATERWISE HUB PROJECT**

13⁰⁰-13¹⁵

Lucian Constantin

National Research and Development Institute for Industrial Ecology
– ECOIND, Romania

13¹⁵-14³⁰

Lunch break and poster session

(Session 3)

Chairs: Gabriela Vasile, Laura Chiriac

**HOW TO IMPROVE RISK MANAGEMENT TO REDUCE
CHEMICAL PRESSURE ON ENVIRONMENT IN EUROPE: THE
NORMAN NETWORK APPROACH**

14³⁰-15⁰⁰

Jaroslav Slobodnik

Director of Environmental Institute in Kos, Slovakia

15 ⁰⁰ -15 ³⁰	FROM POLLUTERS TO MEDIATORS: THE ROLE OF AGED MICROPLASTICS IN THE FIGHT AGAINST ORGANIC CONTAMINATION <u>Elefteria Psillakis</u> School of Environmental Engineering, Technical University of Crete, Chania-Crete, Greece
15 ³⁰ -15 ⁴⁵	NEW Ascentis® Express U/HPLC columns, with Cutting-Edge Fused-Core® Technology <u>Ciprian Vatca</u> Merck Romania SRL
15 ⁴⁵ -16 ¹⁵	Coffee Break and poster session
16 ¹⁵ -16 ³⁵	(Session 4) Chairs: Costel Bumbac, Cristina Mihaela Nicolescu ADVANCING RURAL GREEN TRANSITION THROUGH SUSTAINABLE BIOENERGY+ COMMUNITIES AND BIOECONOMY PATHWAYS <u>Boglárka Vajda</u> Green Energy Cluster / Bioeconomy Hub CEE2ACT Romania
16 ³⁵ -16 ⁵⁵	COMPOSTING AT NATIONAL LEVEL IN 2025 <u>Cristina Feodorov</u> Deputy General Manager, Inoveco Expert, Romania
16 ⁵⁵ -17 ¹⁵	BIO-BASED INNOVATION AND CIRCULAR BIOECONOMY SOLUTIONS DRIVING GREEN TRANSFORMATION TOWARDS CLIMATE-RESILIENT SOCIETIES <u>Alina Butu</u> National Institute of Research and Development for Biological Sciences, Romania
17 ¹⁵ -17 ³⁰	MARKES TD SOLUTIONS FOR PFAS: ANALYTICAL POWER MEETS REGULATORY DEMANDS <u>Jessica Berger</u> Group Product Manager at Markes International Altium International SRL
17 ³⁰ -17 ⁴⁵	PILOT FLOTATION INSTALLATION USING HYBRID ECOFRIENDLY NANOMATERIALS FOR WASTEWATER TREATMENT <u>Cristina Ileana Covaliu-Mierla</u> Faculty of Biotechnical Systems Engineering, National University of Science and Technology Politehnica Bucharest, Romania

Day 2, Friday, October 24, 2025

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9 ⁰⁰ -9 ³⁰	<u>Laura Bulgariu</u> Gheorghe Asachi Technical University of Iasi "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Romania
	REGULATORY FRAMEWORK FOR INDUSTRIAL WATER AND WASTEWATER MANAGEMENT
9 ³⁰ -10 ⁰⁰	<u>Iwona Kłosok-Bazan</u> Associate Professor at the Opole University of Technology, Poland
	GROUPING PRINCIPLES AND APPLICATIONS
10 ⁰⁰ -10 ³⁰	<u>David Katoshevski</u> Environmental Engineering Program, Head Dept of Civil and Environmental Engineering, Ben-Gurion University of the Negev (BGU), Israel
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10 ⁰⁰ -13 ⁰⁰	ROUNDTABLE - THE CREATION OF THE NATIONAL SPATIAL INFORMATION INFRASTRUCTURE, THE RDI COMPONENT (INIS RDI) - INFRAINIS PROJECT
10 ³⁰ -11 ⁰⁰	Coffee Break and poster session
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	A CURE FOR THE EARTH: BIOREMEDIATION ACTIVITIES IN POLLUTED AREAS-FROM SOIL TO WASTEWATER
11 ⁰⁰ -11 ³⁰	<u>Rafael Luque</u> Universidad ECOTEC, Ecuador King Saud University, Saudi Arabia
	ENHANCED NUTRIENT REMOVAL IN DOMESTIC WASTEWATER TREATMENT USING MODIFIED DUCKWEE PONDS
11 ³⁰ -12 ⁰⁰	<u>Asher Brenner</u> Ben-Gurion University of the Negev (BGU), Israel

**WATER AND WASTEWATER MANAGEMENT IN THE
CONTEXT OF CLIMATE ADAPTATION**

12⁰⁰-12³⁰ Michela Langone
Department for Sustainability, ENEA, P.le E. Fermi , Portici, Naples,
Italy

**FROM POLLUTION CONTROL TO RESOURCE RECOVERY:
RETHINKING WASTEWATER TREATMENT FOR A
SUSTAINABLE INDUSTRY (CASE STUDY)**

12³⁰-13⁰⁰ Joanna Boguniewicz Zablocka
Assistant Professor at the Opole University of Technology, Poland

**THE CREATION OF THE NATIONAL SPATIAL INFORMATION
INFRASTRUCTURE, THE CDI COMPONENT (INIS CDI) -
INFRAINIS PROJECT PRESENTATION**

13⁰⁰-13¹⁵ Alina Radutu
Romanian Space Agency, Romania

13¹⁵-14³⁰

Lunch Break and poster session

(Session 7)

Chairs: Elena Elisabeta Manea, Ioana Alexandra Ionescu

AVANTOR- LC-MS SOLUTIONS

14³⁰-14⁴⁵ Lucian Stefan
Avantor, Romania

**ALTERNATIVE WATER RESOURCES IN THE CONTEXT OF
URBAN MANAGEMENT (CASE STUDY)**

14⁴⁵-15⁰⁵ Constantin Radu Gogu, Traian Ghibus
Technical University of Civil Engineering Bucharest (UTCB),
Romania

**UPCYCLING WASTE GLASS IN MATERIALS FOR PASSIVE
FIRE PROTECTION OF BUILDINGS**

15⁰⁵-15²⁵ Alina Badanoiu
Faculty of Chemical Engineering and Biotechnologies, National
University of Science and Technology Politehnica Bucharest,
Romania

POLYMERIC MEMBRANES FOR WATER TREATMENT

15²⁵-15⁴⁵ Stefan Ioan Voicu
Faculty of Chemical Engineering and Biotechnologies, National
University of Science and Technology Politehnica Bucharest,
Romania

15⁴⁵-16¹⁵

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(Session 8)

Chairs: Mihai Nita-Lazar, Olga Tiron

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16¹⁵-16³⁵

Anca Daniela Raiciu

Faculty of Pharmacy, "Titu Maiorescu" University, President of PLANTA ROMANICA Board of Trustees, HOFIGAL Commercial Director, Romania

PROTECT AND IMPROVE THE ENVIRONMENT TO IMPROVE HEALTH OF MANKIND

16³⁵-16⁵⁵

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Shimadzu HandelsgesmbH

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16⁵⁵-17¹⁰

Andra-Cristina Enache

Petru Poni Institute for Macromolecular Chemistry, Iasi

17¹⁰-17²⁰

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Chair: Ioana Alexandra Ionescu

17²⁰-17³⁰

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POSTER SECTION

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