

THE 26TH INTERNATIONAL SYMPOSIUM “ENVIRONMENT AND INDUSTRY”

CONNECTING SCIENCE WITH TECHNOLOGY

2023



PROGRAMME

28-29 SEPTEMBER 2023
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MINISTRY OF RESEARCH, INNOVATION AND DIGITIZATION
MINISTRY OF ENVIRONMENT, WATER AND FORESTS

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NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR INDUSTRIAL
ECOLOGY – ECOIND

CO-ORGANIZED BY:
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ROMANIAN WATER ASSOCIATION
ROMANIAN ENVIRONMENT ASSOCIATION 1998

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PROGRAM TIMES & SPEAKER DETAILS

28 SEPTEMBER 2023 CHAIRED BY LUCIAN CONSTANTIN

CO-CHAIRD BY LIDIA KIM

08:30-09:00	Registration of participants
09:00-09:30	Welcome speech and introductions Luoana Florentina Pascu/Lidia Kim - National Institute of Research and Development for Industrial Ecology - ECOIND Michaela Dina Stanescu - Romanian Chemical Society Cristina Orbeci - University Politehnica Bucharest Virgil Iordache - University of Bucharest Representative MCID
09:30-10:00 Plenary session	<u>Asher Brenner</u> - Ben-Gurion University of the Negev, Israel TREATMENT OF COMPLEX LEACHATES OF A MUNICIPAL SOLID WASTE LANDFILL
10:00-10:15 Invited Speaker	<u>Marius Bumbac</u> - Valahia University of Targoviste, Faculty of Science and Arts, Institute of Multidisciplinary Research for Science and Technology STUDY ON THE GREENHOUSE GAS EMISSIONS OF ALGAL BIOMASS AS GREEN WASTE LANDFILL
10:15-10:30	<u>Iolanda-Veronica Ganea</u> - Faculty of Environmental Science and Engineering, Babeş-Bolyai University, National Institute for Research and Development of Isotopic and Molecular Technologies CHITOSAN-BASED COPOLYMER — AN ECO-CONSCIOUS APPROACH TO REMOVE HARMFUL HEAVY METALS FROM MINING WASTEWATERS
10:30-10:45	Sponsor session - RONEXPRIM - Mihai Balas MICROPLASTICS - NEW IDENTIFICATION AND ANALYSIS TECHNOLOGIES
10:45-11:00	Coffee break
11:00-11:30 Plenary session	<u>Elefteria Psillakis</u> - Technical University of Crete, Greece PLASTIC POLLUTION AND EMERGING CONTAMINANTS: THE ART OF WAR
11:30-11:45	<u>Ana Ioana Neacsu</u> -Valahia University of Targoviste, Faculty of Science and Arts INFLUENCE OF CHLORELLA VULGARIS BIOMASS CONTENT ON THE THERMAL BEHAVIOUR OF STYRENE BUTADIENE STYRENE COMPOSITES
11:45-12:00	<u>Cristina Balaceanu</u> - BEIA Consult International SRL MINIMIZING FOOD LOSS AND REPURPOSING WASTE WITHIN THE VITICULTURE INDUSTRY
12:00-12:15	Sponsor session - ALTIUM Romania - Andrea Sabau SCIENTIFIC INNOVATION FOR MICROPLASTICS IN ENVIRONMENT-AGILENT SOLUTIONS FOR A CHALLENGING ANALYSIS

12:15-13:15	Lunch break
13:15-13:30 Invited Speaker	<u>George-Octavian Buica</u> - University Politehnica Bucharest-Faculty of Chemical Engineering and Biotechnologie AZULENE-EDTA: A MULTI-SENSOR BUILDING BLOCK FOR MERCURY ION ASSESSMENT
13:30-13:45	<u>Silviu-Laurentiu Badea</u> - National Research and Development Institute for Cryogenic and Isotopic Technologies DEHALOGENATION OF DELTA-HEXACHLOROCYCLOHEXANE BY IRON SULFIDE NANOPARTICLES
13:45-14:00	<u>Natalia Efros</u> - Experts Association Pro-Mediu, Republic of Moldova STUDY ON MUNICIPAL WASTE COMPOSITION IN RM
14:00-14:15 Virtual lecture	<u>Angela Lis</u> - Faculty of Chemistry and Chemical Technology, Moldova State University, Republic of Moldova THE ROLE OF FOLIC ACID IN AQUATIC SYSTEMS' CHEMICAL SELF-PURIFICATION PROCESSES
14:15-14:30 Virtual lecture	<u>Dorian Gabriel Neidoni</u> - National Institute of Research and Development for Industrial Ecology - ECOIND MICROBIOLOGICAL STUDY OF THE TIMIS AND BEGA RIVERS
14:30-14:45	<u>Maria Gonta</u> - Faculty of Chemistry and Chemical Technology, Moldova State University, Republic of Moldova REMOVAL DICLOFENAC SODIUM FROM AQUEOUS SOLUTION BY ADVANCED OXIDATION PROCESS

PARALLEL SESSION

CHAired BY MIHAI NITA-LAZAR

CO-CHAired BY INDRANEEL SEN

09:00-15:00	WORKSHOP PROTO OPTO ELECTRO MECHANICAL HYBRID SYSTEMS FOR GENERATION NEXT BIONIC DEVICES
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29 SEPTEMBER 2023 CHAired BY COSTEL BUMBAC

CO-CHAired BY ELENA MANEA

09:15-09:45 Plenary session	<u>Aldo Jesorka</u> - Chalmers Tekniska Hoegskola AS, Sweden CLEANROOM TECHNOLOGY FOR THE LIFE SCIENCES
09:45-10:00	<u>Natalia Efros</u> - Experts Association Pro-Mediu, Republic of Moldova ESTIMATION OF GREENHOUSE GAS INVENTORIES FOR WASTE SECTOR IN RM
10:00-10:15	<u>Ali Yildiz</u> - Konya Technical University, Civil Engineering Department, Turkey INVESTIGATION OF MESH INDEPENDENCE IN NUMERICAL MODELING OF SHARP-CRESTED WEIRS AT DIFFERENT HEIGHTS
10:15-10:30	<u>Steliana Rodino</u> - Institute of Research for Agriculture Economy and Rural Development, National Institute of Research and Development for Biological Sciences WASTE MANAGEMENT REGULATORY FRAMEWORK IN THE CIRCULAR ECONOMY CONTEXT

10:30-10:45	<u>Sponsor session</u> - MERCK - Ciprian Mihai Vatca FAST AND HIGH-RESOLUTION LC-MS SEPARATION OF PFAS - PFAS TESTING WORKFLOW OVERVIEW
10:45-11:00	Coffee break
11:00-11:30 Plenary session	<u>Indraneel Sen</u> - CEO Wasabi Innovations, Bulgaria SOAP FILMS AS MEMBRANES FOR FUTURE TECHNOLOGIES
11:30-11:45	<u>Alpaslan Yazar</u> - Konya Technical University, Civil Engineering Department, Turkiye EXPERIMENTAL AND NUMERICAL MODELLING OF BRIDGE PIERS HAVING DIFFERENT NUMBER OF AXIS
11:45-12:00	<u>Nicoleta Marin</u> - National Institute of Research and Development for Industrial Ecology - ECOIND ADSORPTION OF HEAVY METALS ONTO AMBERLITE XAD 4 RESIN CHELATED WITH ACID BLUE 193
12:00-12:15	<u>Sponsor session</u> - AVANTOR - Anthony Edge OPTIMISING SAMPLE PREPARATION FOR ENVIRONMENTAL ANALYSIS
12:15-13:15	Lunch break
13:15-13:30 Invited Speaker	<u>Cristina Ileana Covaliu-Mierla</u> - University Politehnica Bucharest-Biotechnical Systems Engineering Doctoral School VERSATILE NONCONVENTIONAL WASTEWATER TREATMENT TECHNOLOGIES DEVELOPED BY COMBINING ENGINEERING AND NANOMATERIALS
13:30-13:45 Virtual lecture	<u>Lucia Bustin</u> - TSI GmbH, Germany ULTRAFINE PARTICLES (UFP) - RECENT TRENDS AND REGULATORY ACTIVITIES
13:45-14:00	<u>Tudor Lupascu</u> - Institute of Chemistry of the Moldova State University, Republic of Moldova GROUNDWATER QUALITY IN THE REPUBLIC OF MOLDOVA AND TECHNOLOGIES FOR THEIR POTABILIZATION
14:00-14:15	<u>Georgeta-Olguta Popa</u> - National Institute of Research and Development for Industrial Ecology - ECOIND CORRELATION BETWEEN ODOUR AND HYDROGEN SULPHIDE CONCENTRATIONS FROM MUNICIPAL WASTEWATER TREATMENT PLANT IMMISSIONS
14:15-14:30	Chaired by Ioana Ionescu & Olga Tiron POSTERS PRESENTATION
14:30-14:40	Final thoughts and good day!