

THE 26TH INTERNATIONAL SYMPOSIUM “ENVIRONMENT AND INDUSTRY”

CONNECTING SCIENCE WITH TECHNOLOGY

2023



PROGRAMME

28-29 SEPTEMBER 2023
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ROMANIAN WATER ASSOCIATION
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PROGRAM TIMES & SPEAKER DETAILS

28 SEPTEMBER 2023 CHAIRED BY LUCIAN CONSTANTIN

CO-CHAIRD BY LIDIA KIM

09:00-09:10	Registration of participants
09:10-09:30	Welcome speech and introductions Luoana Florentina Pascu/Lidia Kim - National Institute of Research and Development for Industrial Ecology-ECOIND Virgil Iordache - University of Bucharest Michaela Dina Stanescu - Romanian Chemical Society 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	<u>Mihai Balas</u> - RONEXPRIM 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	<u>Andrea Sabau</u> - ALTIUM Romania 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 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, R. 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 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>Ciprian Mihai Vatca</u> - MERCK 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>Sandra Tuta</u> - SciProcess, part of AVANTOR 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
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, R. Moldova GROUNDWATER QUALITY IN THE REPUBLIC OF MOLDOVA AND TECHNOLOGIES FOR THEIR POTABILIZATION
14:00-14:15	Chaired by Ioana Ionescu & Olga Tiron POSTERS PRESENTATION
14:15-14:30	Final thoughts and good day!

POSTER SECTION

Sustainable Environmental Technologies	
ADSORPTION OF HEAVY METALS ONTO AMBERLITE XAD 4 RESIN CHELATED WITH ACID BLUE 193 Nicoleta Mirela Marin	<u>SET.1</u>
LANDFILL LEACHATE MULTISTAGE TREATMENT – A CASE STUDY Laurentiu Dinu, Valeriu Badescu, Anca Ecaterina Serban, Elena Manea, Costel Bumbac, Mihai Stefanescu, Marius Sburlis, Sorin Dinca	<u>SET.2</u>
LEACHATE TREATMENT STUDY USING MIXED GRANULAR MICROALGAE – BACTERIA BIOMASS Tatiana Buse, Olga Tiron, Laurentiu Dinu, Valeriu Badescu	<u>SET.3</u>
METAL – TITANIUM DIOXIDE DOPED CATALYSTS FOR WASTEWATER TREATMENT UNDER SIMULATED SOLAR LIGHT Lucian Alexandru Constantin, Ioana Alexandra Ionescu, Mirela Alina Constantin, Mihai Stefanescu, Nicoleta Mirela Marin	<u>SET.4</u>
PRELIMINARY RESULTS IN OZONE / PERCARBONATE SLUDGE TREATMENT TO ENHANCE VOLATILE FATTY ACIDS GENERATION Diana Maria Puiu, Georgiana Cernica, Laurentiu Dinu, Mihai Stefanescu, Carmen Postolache	<u>SET.5</u>
Pollution Assessment & Management Systems	
AN OVERVIEW OF CIRCULAR ECONOMY APPROACH FOR TEXTILE WASTE: PROCESS SUSTAINABILITY IN ETHANOL PRODUCTION Gheorghe-Cristian Serbanescu	<u>PAMS.1</u>
EVALUATION OF THE TETRACYCLINE EFFECTS ON THE AROMATIC PLANTS WITH ANTIMICROBIAL ACTION Laura Novac, Anca-Maria Harabagiu, Ana-Maria Fulgheci, Dragos Mihai Radulescu, Alina Roxana Banciu, Daniel Gheorghe Rudaru, Emanuel Daniel Mighiu, Catalina Stoica, Stefania Gheorghe, Irina Eugenia Lucaciu, Mihai Nita-Lazar	<u>PAMS.2</u>
MAPPING OF AQUATIC ECOSYSTEMS USING GEOGRAPHIC INFORMATION SYSTEMS Florin-Valentin Ciobotaru, Catalina Stoica	<u>PAMS.3</u>
PHYSICAL-CHEMICAL AND ENERGETIC CHARACTERISTICS OF THREE FUELS RECOVERED FROM MUNICIPAL WASTE Ileana Crina Nicolescu, Mirela Alina Constantin, Ana-Maria Codreanu, Georgiana Cernica, Irina Dumitrescu	<u>PAMS.4</u>
SULFAMETHOXAZOLE PHYTOTOXIC EFFECTS ON GERMINATION AND GROWTH OF SOME AROMATIC PLANTS Anca-Maria Harabagiu, Laura Novac, Emanuel Daniel Mighiu, Ana-Maria Fulgheci, Dragos Mihai Radulescu, Alina Roxana Banciu, Daniel Gheorghe Rudaru, Catalina Stoica, Stefania Gheorghe, Irina Eugenia Lucaciu, Mihai Nita-Lazar	<u>PAMS.5</u>
THE BIOACUMULATION AND TRANSLOCATION OF As AND Cd ON <i>THYMUS SERPHYLLUM</i> PLANTS – LABORATORY STUDY Cristina Dinu, Anda-Gabriela Tenea, Gabriela-Geanina Vasile, Vasile-Ion Iancu, Marcela-Antoneta Niculescu	<u>PAMS.6</u>
THE USE OF GEOTHERMAL ENERGY IN INTENSIVE COMPOSTING, A SUSTAINABLE AND ENERGY-EFFICIENT OPTION Catalin Manea, Claudiu Spinu, Mihaela Draghici	<u>PAMS.7</u>
ZEOLITE: AN ALTERNATIVE SOLUTION FOR ANTIBIOTIC REMOVAL FROM WASTEWATER Dragos Mihai Radulescu, Florinela Pirvu, Alina Roxana Banciu, Mihai Nita-Lazar	<u>PAMS.8</u>
AN OVERVIEW OF INTEGRATED CHEMICAL PROCESS USED FOR CONVERTING VALUABLE TEXTILE WASTE Gheorghe-Cristian Serbanescu	<u>PAMS.9</u>
Pollution Control and Monitoring	
ASSESSMENT OF GROUNDWATER RESOURCES QUALITY IN THE WESTERN REGION OF ROMANIA Adina Pacala, Mihai Stefanescu, Dorian Gabriel Neidoni, Lidia Ani Diaconu, Iuliana Elena Iordache, Elena Mirela Piciorus, Sorina Claudia Negrea	<u>PCM.1</u>
COMPARATIVE STUDY OF COD PARAMETER MEASURED USING TWO DIFFERENT STANDARD METHODS Ana-Maria Fulgheci, Daniel Gheorghe Rudaru, Alexandra Stavarache, Irina Eugenia Lucaciu	<u>PCM.2</u>
COMPOSITION AND LEACHING CHARACTERISTICS OF MINING ASHES Nicoleta Vasilache, Elena Diacu, Cristina Modrogan, Florentina Laura Chiriac, Gabriela-Geanina Vasile, Anda-Gabriela Tenea, Vasile Ion Iancu, Florinela Pirvu, Iuliana Paun, Gabriel Valentin Serban	<u>PCM.3</u>
DETERMINATION OF FLUOROQUINOLONE ANTIBIOTICS IN WASTEWATER USING HPLC-FLD Florinela Pirvu, Vasile Ion Iancu, Iuliana Paun, Marcela Antoneta Niculescu, Gabriel Valentin Serban, Nicoleta Vasilache, Florentina Laura Chiriac	<u>PCM.4</u>
ELECTROCHEMICAL DETECTION OF CIPROFLOXACIN FROM WATER USING A GRAPHENE QUANTUM DOTS – CARBON NANOTUBES PASTE ELECTRODE Sorina-Claudia Negrea, Lidia Ani Diaconu, Dorian-Gabriel Neidoni, Adina Pacala, Elena Mirela Piciorus, Sorina Motoc, Anamaria Baciu, Florica Manea	<u>PCM.5</u>
HPLC-DAD DETERMINATION OF METHYL ORANGE DYE FROM SYNTHETIC SOLUTIONS AFTER ADSORPTION TREATMENT WITH ACTIVATED CARBON Gabriel-Valentin Serban, Iuliana Paun, Florinela Pirvu, Vasile-Ion Iancu, Marcela Antoneta Niculescu, Florentina Laura Chiriac	<u>PCM.6</u>
SPE-LC-MS/MS DETECTION OF PHARMACEUTICALS COMPOUNDS (GASTRIC ANTACIDES) IN WASTEWATER Vasile-Ion Iancu, Florinela Pirvu, Iuliana Paun, Marcela Antoneta Niculescu, Gabriel Valentin Serban, Ionut Cristea, Florentina Laura Chiriac	<u>PCM.7</u>
THE CONTAMINATION POTENTIAL OF MEDICAL FACE MASKS Alina Roxana Banciu, Dragos Mihai Radulescu, Cristina Iftode, Mihai Nita-Lazar	<u>PCM.8</u>
NEW SENSING LAYER FOR GRAVIMETRIC CARBON DIOXIDE SENSOR Bogdan Catalin Serban, Octavian Buiu, Marius Bumbac, Cristina Mihaela Nicolescu, Mihai Brezeanu	<u>PCM.9</u>

NOVEL RELATIVE HUMIDITY SENSOR Bogdan Catalin Serban, Octavian Buiu, Marius Bumbac, Cristina Mihaela Nicolescu, Mihai Brezeanu	<u>PCM.10</u>
NOVEL RESISTIVE OZONE SENSOR Bogdan Catalin Serban, Octavian Buiu, Marius Bumbac, Cristina Mihaela Nicolescu, Mihai Brezeanu	<u>PCM.11</u>
MATRIX NANOCOMPOSITE FOR RESISTIVE OXYGEN SENSOR Bogdan Catalin Serban, Octavian Buiu, Marius Bumbac, Cristina Mihaela Nicolescu, Mihai Brezeanu	<u>PCM.12</u>
FLUORINATED CARBON NANOHORNS – BASED NANOCOMPOSITE AS SENSING LAYER FOR RESISTIVE NITROGEN DIOXIDE SENSOR Bogdan Catalin Serban, Octavian Buiu, Marius Bumbac, Cristina Mihaela Nicolescu, Mihai Brezeanu	<u>PCM.13</u>
THERMAL STUDY OF STYRENE-BUTADIENE COMPOSITES WITH <i>ARTHROSPIRA PLATENSIS</i> BIOMASS Cristina Mihaela Nicolescu, Bumbac Marius, Sorina Geanina Stanescu, Cosmin Stefan Gherghinoiu, Costel Bumbac, Elena Elisabeta Manea, Bogdan Catalin Serban, Octavian Buiu, Traian Zaharescu	<u>PCM.14</u>
Romanian Journal of Ecology & Environmental Chemistry (RJECC)	
NILE RED STAINING OF POLYETHYLENE AND POLYSTYRENE IN <i>DAPHNIA MAGNA</i> TESTS Stefania Gheorghe, Catalina Stoica, Anca-Maria Harabagiu	<u>RJECC 1</u>
PRELIMINARY ASSESSMENT OF THE VULNERABILITIES IN URBAN ECOSYSTEMS AS A RESULT OF THE MANIFESTATION OF THE EFFECTS OF CLIMATE CHANGES. CASE STUDIES Bogdan Adrian Stanescu, Adriana Cuciureanu, Georgiana Cernica, Ana Maria Codreanu	<u>RJECC 2</u>
REMOVAL OF HCH AND DDX FROM HISTORICAL POLLUTED SOILS BY ZEROVALENT IRON TECHNOLOGY Mihai Stefanescu, Costel Bumbac, Ionut Cristea	<u>RJECC 3</u>
ALTERNATIVE ADSORBENT MATERIALS USED TO REMOVE PHOSPHATES FROM WATER Ana-Maria Nicoleta Codreanu, Alina Mirela Constantin, Georgiana Cernica, Irina Dumitrescu	<u>RJECC 4</u>
EXPERIMENTAL STUDY FOR THE BREAKING OF OIL-WATER EMULSIONS Mirela Alina Constantin, Florenta Daniela Constantinov	<u>RJECC 5</u>
CORRELATION BETWEEN ODOUR AND HYDROGEN SULPHIDE CONCENTRATIONS FROM MUNICIPAL WASTEWATER TREATMENT PLANT IMMISSIONS Georgeta-Olguta Popa, Cristian Constantin, Simona Mariana Calinescu, Valentin Stancu	<u>RJECC 6</u>
DETERMINING THE ODOUR EMISSION RATE ACTIVE SURFACES SOURCES AND ESTIMATING THE ODOUR CONCENTRATION IN THE SURROUNDING AIR Cristian Constantin, Georgeta-Olguta Popa, Simona Mariana Calinescu, Gheorghita Tanase	<u>RJECC 7</u>