

The Excellent Sub-Carpathian region – a comprehensive environmental study at the University of Rzeszów for the benefit of the region

Program of the 2nd Conference Emerging Environmental Contaminants – Current Status, Challenges and Perspectives, 9-11 September, 2026, Rzeszów, Poland

Wednesday, 9th September 2026 – Day 1

University of Rzeszów, Zelwerowicza St. 4, 35-601 Rzeszów, Building D9, Conference Hall 108

9:00-10:00 REGISTRATION

10:00 Opening and welcoming conference participants

Opening Session

CONFERENCE KEYNOTES

10:30-12:00

SOILS: FROM WASTELANDS TO OPPORTUNITIES – Mark Maboeta

TESTING THE PERFORMANCE OF EUROPEAN DIATOM INDICES FOR EVALUATING THE ECOLOGICAL STATUS IN SOME RIVER BASINS IN TÜRKIYE: KIZILIRMAK AND SAKARYA BASIN CASES – Cüneyt Nadir Solak, Łukasz Peszek, Tolga Çetin

FROM CARBON AGRICULTURE WITH SEAWEEDS TO BIOREMEDIATION WITH MICROALGAE – Kiril Bahcevandziev

12:00-12:30 COFFEE BREAK

PANEL A

Hall 108

SOIL, POLLUTION, REMEDIATION

12:30-13:45

SELECTED EMERGING CONTAMINANTS - THEIR ECOTOXICITY AND IMPACT ON SOIL HEALTH – Agnieszka Klimkowicz-Pawlas, Monika Pecio, Anna Gałązka, Agnieszka Fiszka-Borzyszkowska, Lidia Wolska

PROBABILITY MAPPING OF METAL MOBILIZATION RISK IN COASTAL ACID SULFATE SOILS OF POLAND – Piotr Hulisz, Sylwia Pindral

TRDMT1 AS A CYTOTOXIC FACTOR INCREASING THE SENSITIVITY OF OSTEOSARCOMA CELLS TO CAMALEXIN, BRASSININ AND ACETAMIPRID – Viera Schwarzbacherová, Jagoda Adamczyk-Grochala, Maciej Wnuk

EMPLOYING PLANT-PARASITIC NEMATODES AS BIOLOGICAL INDICATORS OF SOIL CONTAMINATION AND ECOSYSTEM HEALTH – Anita Zapałowska

MICROBIAL DEGRADATION OF FUNGICIDES IN APPLE PRODUCTION: FROM LABORATORY STUDIES TO FIELD APPLICATIONS AND RISK ASSESSMENT – Magdalena Podbielska, Małgorzata Kus-Liśkiewicz, Ewa Szpyrka

13:45-14:45 LUNCH BREAK

PANEL A continuation

SOIL, POLLUTION, REMEDIATION

14:45-15:45

PAHS ASSESSMENT OF PAH CONTAMINATION IN SOILS NEAR THE FORMER GLIMAR OIL REFINERY (GORLICE, POLAND) USING GC-MS/MS – Kinga Wencel, Witold Żukowski, Igor Łabaj, Lizardo Reyna-Bowen

ECOTOXICOLOGICAL EVALUATION OF PESTICIDE ACTIVE INGREDIENTS AND FORMULATIONS USING *FOLSOMIA CANDIDA* – Isha Shakoar, Iwona Gruss, Irmina Ćwieląg-Piasecka, Cristina Menta

DOES LONG-TERM CEREAL MONOCULTURE NEGATIVELY AFFECT ORGANIC MATTER DECOMPOSITION? – Olena Niszczyk, Jacek Twardowski, Roman Waćławowicz, Kamila Twardowska, Joanna Magiera-Dulewicz

This research was supported by the Minister of Science of the Republic of Poland under the Programme „Regional initiative of excellence”. Agreement No. RID/SP/0010/2024/1.

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ENVIRONMENTAL IMPACT OF LARGE FIRE OF CHEMICAL WASTE – A CASE STUDY FROM SIEMIANOWICE ŚLĄSKIE – Wojciech Rykała, Dominika Dąbrowska, Janusz Janeczek, Marek Sołtysiak, Ewa Łupikasza, Mariola Jabłońska, Monika J. Fabiańska, Tetiana Kalinichenko

PANEL B

Hall 131

12:30-13:45

MONITORING WATER QUALITY, POLLUTION SOURCES AND MICROPLASTICS

INTEGRATED ASSESSMENT OF CANAL WATER QUALITY IN SEMI-ARID REGION OF INDIA: HYDROGEOCHEMISTRY, IRRIGATION SUITABILITY, HEAVY METAL DISTRIBUTION, AND PROBABILISTIC HUMAN HEALTH RISK EVALUATION – Poonam Mundlia, Kamlesh Kumar Sharma, Deepak Attri, Ruby, Dimple, Priyadarshi Meena, Sunil Chhimpa, Arup Giri

PLANT-BASED TOXICITY ASSESSMENT AND PAH REMOVAL IN TREATED LANDFILL LEACHATE – Aleksandra Wdowczyk, Wojciech Rykała, Dominika Dąbrowska, Agata Szymańska-Pulikowska, Monika Fabiańska

FROM ENVIRONMENTAL MONITORING TO TERRITORIAL PLANNING: FOZWASE AS A MUNICIPAL SCIENCE-BASED APPROACH TO ESTUARINE GOVERNANCE – Joana L. Rocha, Margarida Gouveia, Ana Fernandes, José Silva

BEYOND THE PEAK OF A TOXIC BLOOM: ACTINOCYCLUS SUBTILIS AS A POTENTIAL MARKER OF OSTREOPSIS DECLINE – Adrian Kryk, David G. Mann, Magda Vila, Sofia I. Homedes, Elisa Berdalet, Rosa Trobajo

SOURCE APPORTIONMENT OF SURFACE WATER POLLUTION IN A DELTAIC RIVER SYSTEM USING UNITED STATE ENVIRONMENTAL PROTECTION AGENCY (USEPA), POSITIVE MATRIX FACTORIZATION (PMF): THE CASE OF EDE ONYIMA CREEK, NIGER DELTA, NIGERIA – Emmanuel Francis, Essiene McLean Stanley

13:45-14:45

LUNCH BREAK

PANEL B continuation

Hall 131

14:45-15:45

MONITORING WATER QUALITY, POLLUTION SOURCES AND MICROPLASTICS

ECOLOGICAL TOXICITY OF PHARMACEUTICAL CONTAMINANTS IN PHARMACEUTICAL WASTEWATER – Lyndon N. A. Sackey, Augustine Okobeng, Priscilla Yawa Obidieh, Flora-Marie Mpaka Ngala, Emmanuel Bentum Otoo, Jeremiah Quartey, Joseph A. Benti, David Azanu

DETERMINANTS OF CIRCULAR ECONOMY IMPLEMENTATION IN WASTEWATER TREATMENT PLANTS – Paulina Marcinek, Magdalena Andrunik, Marzena Smol

DETERMINATION OF MICROPLASTICS IN HTC-PROCESSED AND UNTREATED SEWAGE SLUDGE USING A NOVEL SINGLE-VESSEL EXTRACTION METHOD – Wojciech Strojny, Renata Gruca-Rokosz, Zuzanna Prus, Małgorzata Wilk, Katarzyna Styszko

15:45-16:15

COFFEE BREAK – time for discussion!

Partners Session

Hall 108

16:15-17:15

MicroBioTests – Wouter Lanneau

TIGRET SP. Z O.O – Grzegorz Piętowski, Justyna Chojnacka

PCI, Podkarpackie Centrum Innowacji Sp. z o.o. – Timea Sulenta-Pluta

Summary of the Day 1

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Hall 108

17:15-17:30

19:00-23:00

DINNER

Thursday, 10th September 2026 – Day 2

PANEL C

Hall 108

AGRICULTURE, ADJUVANTS, ECONOMICS, MYCOREMEDIATION

10:00-11:30

SELENIUM SEED PRIMING FOR IMPROVED CROP ESTABLISHMENT AND STRESS TOLERANCE –
Ivana Varga, Manda Antunović, Mirta Rastija, Dario Iljkić

URBAN ORGANIC RESOURCES IN THE TRANSITION TOWARDS A CIRCULAR BIOECONOMY –
Ivan Tymchuk, Myroslav Malovanyy, Volodymyr Zhuk, Bohdan Romanovych

DRIVERS AND BARRIERS FOR SCALING ORGANIC SOIL IMPROVERS: A CROSS-REGIONAL SWOT
ASSESSMENT – Edyta Waluś, Marzena Smol

THE IMPORTANCE OF LOCAL USE OF HEAT AND CO₂ FOR THE PROFITABILITY OF AGRICULTURAL
BIOGAS PLANTS ON DAIRY FARMS – Jakub Mazurkiewicz, Monika Suchowska-Kisielewicz

ORGANIC-BASED PENETRATING AGENTS AS ADJUVANTS: A BOOST TO AGRICULTURAL EFFICACY OR A
PHYTOPHYSIOLOGICAL LIMITATION? – Ewa Szwajczak, Katarzyna Larysz, Michał Ludynia, Edyta
Sierka

BIOREMEDIATION POTENTIAL OF WOOD-DECAY FUNGI ON CONTAMINATED RECYCLED WOOD:
TOWARDS UPCYCLED MYCELIUM-BASED THERMAL INSULATION MATERIALS FOR CIRCULAR
CONSTRUCTION – Benjamín Petržela, Miroslav Jozífek, Štěpán Hýsek

PANEL D

Hall 131

**TOXICITY OF PFAS, PHARMACEUTICALS AND EMERGING CONTAMINANTS
AND TECHNOLOGIES FOR THEIR ELIMINATION**

10:00-11:30

TURNING LOW-QUALITY CLAY MINERALS INTO HIGH-VALUE CATALYSTS: PHOTOCHEMICAL
ELIMINATION OF EMERGING POLLUTANTS USING FE-BEARING MINERAL WASTE – Agnieszka
Węgrzyn, Xuan Tien Dao, Paweł Miśkowiec

INTEGRATING AERATED LAGOONS INTO MEMBRANE-BASED LEACHATE TREATMENT: TECHNO-
ECONOMIC CHALLENGES AND FATE OF EMERGING CONTAMINANTS AT LVIV MSW LANDFILL –
Volodymyr Zhuk, Myroslav Malovanyy, Ivan Tymchuk, Andriy Sereda

WHEN WARMTH AMPLIFIES THE CHEMICAL THREAT: HOW MODERN PFAS (GENX) AND THERMAL
STRESS CO-CONSPIRE TO DISMANTLE MARINE HOST DEFENSES AND TISSUE INTEGRITY – Davide
Di Paola

FROM BIOACCUMULATION TO PHYSIOLOGICAL STRESS: SALINITY-DEPENDENT EFFECTS OF IONIC
LIQUIDS IN MYTILUS TROSSULUS – Joanna Dołżonek, Lilianna Sharma, Anna Pouch, Adriana
Mika, Klaudia Godlewska, Montserrat Solé, Grzegorz Siedlewicz, Anna Białk-Bielińska, Ksenia
Pazdro

SELECTION OF PARAMETERS FOR THE ELECTROCHEMICAL OXIDATION OF PARACETAMOL USING A
BDD ELECTRODE FLOW CELL – Julia K. Nowak, Paweł Lochyński, Paweł Jajor, Błażej Późniak,
Andrew Taylor, Piotr Jedziniak

DECISION-SUPPORT APPROACH FOR WATER REUSE: WATERSAFE TOOL APPLICATION IN FINNISH
WWTP – Dominika Szołdrowska, Monika Wojciechowska, Klara Ramm, Marzena Smol

11:30

TAKE YOUR COFFEE AND GO TO... ↓↓↓

11:30-12:15

POSTER SESSION

PANEL E

Hall 108

12:15-14:00

ATMOSPHERE, AEROSOLS AND ENVIRONMENTAL EFFECTS OF EMISSION PROCESSES

LIFE CYCLE ASSESSMENT IN SUPPORT OF ENVIRONMENTAL MANAGEMENT: THE IMPACT OF ALLOCATION METHODS ON THE ENVIRONMENTAL PERFORMANCE OF CIRCULAR PRODUCTION SYSTEMS – Viktoria Mannheim, Klára Tóthné Szita

AEROBIOLOGICAL MONITORING FOR THE DEVELOPMENT OF A REGIONAL POLLEN CALENDAR IN IVANO-FRANKIVSK (WESTERN UKRAINE) – Halyna Melnychenko, Uliana Semak, Myroslava Mylenka

DEVELOPING INTEGRATED RESEARCH INFRASTRUCTURE FOR ENVIRONMENTAL MONITORING AND CONSERVATION DECISION SUPPORT IN THE UKRAINIAN CARPATHIANS: THE EXPERIENCE OF THE INTERNATIONAL SCIENTIFIC CENTRE "OBSERVATORY" – Myroslava Mylenka

ULTRAFINE AND FINE AIRBORNE PARTICLES DURING A SAHARAN DUST INTRUSION: SIZE DISTRIBUTION AND FREE RADICAL CONTENT – Julia Brewka, Katarzyna Kluska, Idalia Kasprzyk, Bogumił Cieniek, Dariusz Płoch, Ireneusz Stefaniuk

CYTOTOXICITY OF WATER-AND ORGANIC-SOLUBLE TAR AEROSOLS GENERATED BY PYROLYSIS OF WOOD – Nadira Zendi, Vinh Nguyen, Bartłomiej Witkowski, Małgorzata Milczarek, Tomasz Gierczak

KINETIC MEASUREMENTS AND ATMOSPHERIC LIFETIMES OF SUGAR ACIDS – Vinh Nguyen, Yimu Zhang, Thomas Schaefer, Bartłomiej Witkowski, Tomasz Gierczak, Hartmut Herrmann

PLANT IDENTITY SHAPES SOIL CORE MICROBIOMES OF POST-INDUSTRIAL SITES – Katarzyna Larysz, Ewa Szwajczak, Michał Ludynia, Edyta Sierka

14:00

Conference Summary

14:15

LUNCH

15:00-18:00

WORKSHOPS

Friday, 12 September 2026 – Day 3

9:00-17:00

Trip - Museum of Oil and Gas Industry Ignacy Łukasiewicz in Bóbrka (including dinner)

POSTER SESSION

ASSESSMENT OF AQUATIC SEDIMENT CONTAMINATION OF RESERVOIRS IN URBANISED AND INDUSTRIALISED REGIONS WITH RESPECT TO METALS IN THE CONTEXT OF CLIMATE CHANGE – Urszula Aleksander-Kwaterczak, Maria Bukowska, Hanna Michno

DETERMINATION OF THE CHEMICAL COMPOSITION OF FILTERS USED FOR TAP WATER FILTRATION – Urszula Aleksander-Kwaterczak, Katarzyna Wątor, Jagoda Swoboda, Piotr Rusiniak

OZONATION AS A GREEN PERSPECTIVE FOR MYCOTOXIN DEGRADATION IN PLANT RAW MATERIALS: EFFICIENCY AND BY-PRODUCTS PROFILE – Maciej Balawejder, Radosław Józefczyk, Piotr Antos

DETERMINATION OF THE LEVELS OF HEAVY METALS IN T-SHIRTS AND ASSESSING DERMAL EXPOSURE RISKS – Agnieszka Baran, Jerzy Wieczorek, Julia Jaworska, Julia Tubek

AGRICULTURAL WASTE BIOCHAR AS A LOW-COST ADSORBENT FOR PHARMACEUTICAL AND ANTIBIOTIC REMOVAL FROM CONTAMINATED WATER – Sydney S. Blankson, Lyndon N.A. Sackey, Jones O. Twumesi, Bernard Fei-Baffoe

SUSTAINABLE DAIRY LOGISTICS AND ENVIRONMENTAL FOOTPRINT REDUCTION IN SHORT FOOD SUPPLY CHAINS – Martyna Bluj, Agnieszka Podolak, Małgorzata Ormian, Jadwiga Topczewska

TREATMENT OF CONTAMINATED AQUATIC ENVIRONMENTS USING MAGNETICALLY RESPONSIVE BIOCHAR ADSORBENTS – Ihor Bordun, Myroslav Malovanyy, Nazar Nahurskyi

FRESH VERSUS CANNED FISH AND SEAFOOD AS DIETARY SOURCES OF 210PO AND 210PB – Alicja Boryło, Klaudia Lanczewska-Bejenka, Paweł Rudnicki-Velasquez

TRANSFORMATION OF MUNICIPAL SEWAGE SLUDGE INTO ENVIRONMENTALLY SAFER ORGANIC-MINERAL FERTILIZERS: CHALLENGES AND PERSPECTIVES – Joanna Czarnota, Adam Masłoń, Justyna Koc-Jurczyk, Dagmara Migut, Agnieszka Podolak

THE ROLE OF SECONDARY PLANT METABOLITES IN ENHANCING THE DEGRADATION AND DETOXICATION OF PESTICIDES IN AGRICULTURAL SOILS – Irmina Ćwieląg-Piasecka, Dorota Kawałko, Elżbieta Jamroz, Daria Szuk, Iwona Gruss, Bogna Kosyk, Dariusz Drożdżyński, Rafał Motała, Marek Szczepański, Ladislav Holík, Valerie Vranová, Lubica Pospíšilová

INTEGRATING SOIL REMEDIATION AND WATER TREATMENT: PHOTOCATALYTIC REUSE OF ORGANIC ACID-TREATED CLAY MINERALS FOR EMERGING POLLUTANT REMOVAL – Xuan Tien Dao, Paweł Miśkowiec, Agnieszka Węgrzyn

FROM WILD HARVESTING TO CULTIVATION: INTRODUCTION OF ARNICA MONTANA L. AS A PREREQUISITE FOR CONTROLLED PRODUCTION OF MEDICINAL RAW MATERIAL – Andrii Dubliak, Nadiia Riznychuk

BIODIVERSITY OF MICROBIOME AND MYCOBIOME OF LONG-TERM OIL-CONTAMINATED SOILS – Anna Gałązka, Katarzyna Wiejak, Jarosław Ciepiel, Karolina Gawryjolek, Aleksandra Ukalska-Jaruga, Anna Marzec-Grządziel

COMPARATIVE ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBON (PAHs) CONTENT IN SOILS FROM CITY PARKS IN RZESZÓW AND KRAKÓW USING THE GC-MS/MS TECHNIQUE – Amelia Gargała, Roksana Szkoła, Agnieszka Gruchot, Zuzanna Hanus, Magdalena Słowik-Borowiec

MUNICIPAL PARKS AS EARLY WARNING SYSTEMS FOR SOIL CONTAMINATION – INSIGHTS FROM RZESZÓW'S RECREATIONAL AREAS – Anna Górka, Maria Sanecka

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APPLICATION OF ANTIBACTERIAL DAT7/REDOX ACTIVE FILM FOR IMPROVING MICROBIOLOGICAL WATER QUALITY IN REUSABLE BOTTLES: PUBLIC HEALTH IMPLICATIONS – Dorota Grabek-Lejko, Urszula Hendras, Wiesław Doros

COMPOST LEACHATES AS A POTENTIAL PATHWAY FOR MICROPLASTIC RELEASE INTO THE ENVIRONMENT – Katarzyna Grąż, Anita Zapałowska

FROM REGOLITH TO RESOURCE: EVALUATING THE TOXICITY OF LUNAR AND MARTIAN SIMULANTS – V. Harris, H. Bouwman, M.S. Maboeta

IMPACT OF MODIFIED DIGESTATE FROM THE ANAEROBIC DIGESTION PROCESS ON THE PHYSIOLOGICAL STATUS OF TRITICALE (× TRITICOSECALE WITTM.) CULTIVATED FOR ENERGY PURPOSES – Marta Jańczak-Pieniążek, Gabriela Bździuch, Dagmara Jakubowska, Dagmara Migut, Justyna Koc-Jurczyk, Agnieszka Podolak

SOYBEAN RESPONSE TO VERMICOMPOST FERTILIZATION – Wacław Jarecki

WASTE ALGAL BIOMASS AND COMBUSTION ASH: CHARACTERIZATION AND APPLICATION POTENTIAL – Anna Kaczmarzyk, Tomasz Bajda, Elżbieta Hycnar

CYTOTOXICITY ASSESSMENT OF PET BOTTLE- AND HDPE CAP-DERIVED MICROPLASTICS IN HUMAN KERATINOCYTES – Justyna Kamińska, Longina Madej-Kiełbik, Anna Bednarowicz, Nina Tarzyńska, Karolina Gzyra-Jagięła, Patryk Śniarowski, Wiesław Adamiec

DIPTERA AS BIOINDICATORS: FROM NATURAL PALEOCLIMATE SHIFTS TO NEXT-GENERATION ANTHROPOGENIC POLLUTION – Iwona Kania-Kłosok, Jacek Szwedo, Wiesław Krzemiński

OPTIMIZATION OF PROCEDURES FOR EXTRACTING SELECTED EMERGING CONTAMINANTS FROM HONEY USING THE MICRO-SPIN SPE TECHNIQUE – Alicja Katarzyńska, Weronika Gierat, Agnieszka Węgrzyn

REMOVAL OF EMERGING CONTAMINANTS FROM WATER USING ADVANCED OXIDATION PROCESSES – Alicja Katarzyńska, Weronika Gierat, Agnieszka Węgrzyn

BACTERIOPHAGES AS BIOINDICATORS OF FECAL POLLUTION AND ENVIRONMENTAL RISK IN THE WISŁOK RIVER – Magdalena Kędzierska, Jakub Mazur, Małgorzata Kus- Liśkiewicz, Leszek Potocki

ASSESSMENT OF THE IMPACT OF SOLID RESIDUES FROM WASTE INCINERATION ON THE SOIL AND WATER ENVIRONMENT – Waldemar Kępyś

EFFICIENT REMOVAL OF MICROPLASTICS THROUGH MAGNETITE-INDUCED HETEROAGGREGATION – Małgorzata Kida, Sabina Ziembowicz, Kamil Pochwat, Piotr Koszelnik

ECOTOXICITY OF NANO-TIO₂ IN COMBINATION WITH ESSENTIAL OILS – Klára Kobetičová, Adéla Fraňková

EMERGING CONTAMINANTS IN LANDFILL LEACHATE: POTENTIAL EFFECTS ON BIOLOGICAL WASTEWATER TREATMENT PROCESSES – Justyna Koc-Jurczyk, Łukasz Jurczyk, Agnieszka Podolak

FROM STRESS TO ADAPTATION: THE RESPONSE OF AN ACTIVATED SLUDGE SYSTEM TO AN IRREGULAR INFLOW OF SPECIFIC POLLUTANTS – Justyna Koc-Jurczyk, Agnieszka Podolak, Łukasz Jurczyk

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INTERNALIZATION AND RESILIENCE TO THE MICROPLASTIC PARTICLES IN SELECTED PLANT SPECIES –

Beata Krupa, Karol Skucha, Iwona Stawoska, Kinga Jarosz, Monika Traczyk, Agnieszka Płażek, Klaudia Sychta, Przemysław Kopeć, Alexander Betekhtin, Marek Michalik, Aneta Słomka

ASSESSMENT OF HEAVY METAL CONCENTRATIONS IN PM_{2.5} AIRBORNE PARTICULATE MATTER IN RZESZÓW, POLAND – Paulina Książek-Trela, Ewa Szpyrka

POLLUTIONS LEGACIES OF WAR: LONG TERM CONSEQUENCES – Michał Kubsik, Anna Parus, Tomáš Cajthaml

NON-NATIVE SPECIES OF URBANISED AREAS - CHECKLIST. THE CASE OF RZESZÓW, SE POLAND – Monika Kucharska-Świerszcz, Zbigniew W. Czerniakowski, Tomasz Olbrycht

MICROPLASTICS SEPARATION FROM SOIL MATRIX – CHALLENGES AND PERSPECTIVES – Kinga Kujawiak, Aleksandra Loba, Marek Chabowski, Piotr Hulisz

PFAS IN AGRICULTURAL SOILS OF GALICIA (NW SPAIN): DEVELOPMENT OF AN ADVANCED ANALYTICAL METHODOLOGY – Vanesa Lalín-Pousa, Daniel Arenas-Lago, Andrés Rodríguez-Seijo

ANALYSIS OF THE CONTENT OF ²¹⁰PO AND URANIUM ISOTOPES IN THE COMPONENTS OF THE POST-MINING ENVIRONMENT IN THE SUDETES – Klaudia Lanczewska-Bejenka, Alicja Boryło, Bogdan Skwarzec

THE EFFECT OF ENZYMATIC PRETREATMENT ON INCREASING THE SOLUBILITY AND BIODEGRADABILITY OF INSECT BREEDING POST PRODUCTION WASTE – Magdalena Lebiocka, Piotr Bulak, Katarzyna Szweczek-Karpisz, Sylwia Pasieczna-Patkowska

MICROPLASTICS IN AGRICULTURAL SOILS OF YOUNG MORAINIC LANDSCAPE – A CASE STUDY FROM CHEŁMNO LAKE DISTRICT (NORTHERN POLAND) – Aleksandra Loba, Marcin Świtoniak, Piotr Hulisz, Kinga Kujawiak, Marek Chabowski

POTENTIAL OPPORTUNITIES AND LIMITATIONS OF SEED NANOPRIMING FOR MITIGATING SOIL SALINIZATION: THE CASE OF GRAPHENE OXIDE NANOPRIMING IN BARLEY (HORDEUM VULGARE) – Adrianna Łobodzińska, Danuta Cembrowska-Lech, Tymoteusz Miller, Agnieszka Grinn-Gofroń

ASSESSMENT OF NATURAL AND ARTIFICIAL RADIOACTIVITY IN SOIL SAMPLES FROM THE “KORZENIOWY DÓŁ” EARTHWORM HABITAT IN KAZIMIERZ DOLNY ON THE VISTULA – Aneta Łukaszek-Chmielewska, Mirosław Szyłak-Szydłowski

HIGHER PLANTS: SELECTING BIOINDICATORS FOR COMPREHENSIVE ENVIRONMENTAL RISK ASSESSMENT – Izabela Łyp, Agnieszka Podolak, Justyna Koc-Jurczyk, Łukasz Jurczyk

INTEGRATED ASSESSMENT OF LANDFILL LEACHATE REMEDIATION METHODS: FROM POLLUTANT REMOVAL TO TOXICITY REDUCTION – Jakub Maj, Agnieszka Podolak, Justyna Koc-Jurczyk

FROM PERSONAL CARE TO ENVIRONMENTAL CONCERN: A CRITICAL REVIEW OF EMERGING CONTAMINANTS DERIVED FROM THE COSMETIC INDUSTRY LIFECYCLE – Katarzyna Maj-Zajezierska

ENVIRONMENTAL RISKS POSED BY PFAS AND STRATEGIES FOR MINIMIZING THEM IN UKRAINE – Myroslav Malovanyy, Ihor Bordun, Andriy Sereda, Taras Ozymok, Volodymyr Zhuk, Ivan Tymchuk, Olena Popovych

SEASONAL VARIATION OF SOIL MICROBIOMES AS A TOOL FOR IDENTIFYING POTENTIAL INDICATOR MICROORGANISMS IN ENVIRONMENTS EXPOSED TO CHEMICAL CONTAMINATION – Anna Marzec-Grządziel, Jarosław Ciepiel, Katarzyna Wiejak

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IN VITRO ASSESSMENT OF THE ANTIBACTERIAL EFFICACY OF ASCORBIC ACID AGAINST MULTI-DRUG RESISTANT PATHOGENS – Jakub Mazur

NEXT-GENERATION BACTERIOSTATIC TRANSPORT MEDIA FOR CLINICAL AND ENVIRONMENTAL MICROBIOLOGICAL SAMPLING – Jakub Mazur

REMOVAL OF LEAD FROM AQUEOUS SOLUTIONS BY ADSORPTION ON SELECTED NANOMATERIALS – Zuzana Melichová, Matej Šuránek, Maciej Thomas

DIATOMS (BACILLARIOPHYTA) AS INDICATORS OF WATER QUALITY OF THE LOWER SAN RIVER – Teresa Noga, Wiktoria Bąk, Anita Poradowska

POTENTIAL MICROPLASTICS REMOVAL BY ROTIFERS IN AQUATIC ECOSYSTEM – Failasuf Aulia Nugroho, Edyta Fiałkowska, Agnieszka Pajdak-Stós

IMPACT OF POST-HARVEST PROCESSING ON ARSENIC EXPOSURE FROM URBAN-GROWN VEGETABLES – Kayode Olabode, Izabela Komorowicz, Karolina Lewińska

MOLECULAR MONITORING OF MULTIDRUG - RESISTANT KLEBSIELLA PNEUMONIAE: CLONAL DIVERSITY AND ANTIBIOTIC RESISTANCE GENES AS EMERGING BIOLOGICAL POLLUTANTS – Kacper Osiadły, Leszek Potocki

ANALYSIS OF CHANGES IN AIR QUALITY IN KRAKÓW IN THE CONTEXT OF THE INTRODUCED PRO ECOLOGICAL SOLUTIONS – Małgorzata Pawul, Waldemar Kępys, Małgorzata Śliwka

IDENTIFICATION OF MICROPLASTICS IN ENVIRONMENTAL SAMPLES COLLECTED FROM MAHANANDA WILDLIFE SANCTUARY SITUATED IN THE EASTERN HIMALAYAS IN INDIA – Sonam Penjor, Sayan Bhattacharya

COMPARATIVE ASSESSMENT OF ACUTE AND CHRONIC TOXICITY OF ENVIRONMENTAL CONTAMINANTS: AN EARTHWORMS-BASED CASE STUDY – Jakub Piątek, Agnieszka Podolak, Justyna Koc-Jurczyk

WATERLOGGING AS AN ENVIRONMENTAL CHALLENGE: COMPARATIVE ANALYSIS OF PHOTOSYNTHETIC RESPONSES AND RECOVERY OF DICOT (BRASSICA NAPUS) AND MONOCOT (TRITICUM AESTIVUM) PLANTS – Maja Piegza, Małgorzata Rudnicka, Justyna Jurczak, Natalia Włoch, Krzysztof Sitko

ACTIVE DECENTRALIZED RETENTION: INTEGRATED SYSTEM FOR FLOW MANAGEMENT AND STORMWATER QUALITY CONTROL – Kamil Pochwat, Małgorzata Kida

LYTIC BACTERIOPHAGES AS ADAPTIVE TOOLS FOR WATER POLLUTION CONTROL: ENVIRONMENTAL ISOLATION AND EVALUATION AGAINST ESCHERICHIA COLI CONTAMINATION – Potocki L., Baran A., Oklejewicz B., Worek M., Martynowski D., Pawlik K.

ACTIVITY-DRIVEN VARIABILITY OF BIOAEROSOL CONCENTRATIONS IN SPORTS FACILITIES – Wioletta Przysaś, Paweł Kolak

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