



International Conference and Workshop
“Interdisciplinary applications of advanced analytical and control techniques in environment, health and materials science - INTERVENT”

October 19th–20th, 2023
GALATI, ROMANIA

CONFERENCE PROGRAM

19th October, 2023

SESSION A. Dunarea de Jos University of Galati (UDJG), Romania,
Faculty of Sciences and Environment, Hall SB401

09:45-10:00 h

Registration of participants – Hall SB401

10:00-11:15 h

PLENARY SESSION

➤ **Conveners:**

Prof. dr. habil. Antoaneta Ene, Project Manager, UDJG, Romania

Prof.dr.hab. Elena Zubcov, Institute of Zoology, State University of Moldova, MD

Opening ceremony – Welcome of participants

Prof.dr.habil. Antoaneta Ene - Project Manager, UDJG, RO,

Coordinator of Multidisciplinary Platform ReForm-UDJG

INVITED LECTURES

IL01. Nuclear radiations in our lives: sources, applications, protection measures

Antoaneta Ene

INPOLDE research center, Dunarea de Jos University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, Galati, Romania; Antoaneta.Ene@ugal.ro

IL02. Study of the migration and impact of metals on the functioning of aquatic ecosystems

Elena Zubcov

State University of Moldova, Institute of Zoology, Hydrobiocenosis and Ecotoxicology Research Center, INPOLDE interdisciplinary research network, 1 Academiei Street, MD-2028 Chisinau, Republic of Moldova; elzubcov@mail.ru, ecotox@yahoo.com

IL03. A focusing study on advanced radiation shielding materials: What do we want? & How do we work?

Huseyin Ozan Tekin

Department of Medical Diagnostic Imaging, College of Health Sciences, University of Sharjah, 27272, Sharjah, United Arab Emirates, htekin@sharjah.ac.ae



11:15-11:45 h Coffee break

11:45 -12:45 h

ORAL PRESENTATIONS

➤ **Conveners:**

Assoc. prof. dr. Steluța Gosav, UDJG, RO

Assoc. prof. dr. Simona Condurache-Bota, UDJG, RO

OP01. Evaluation the chemical potential of some flavones using the DFT theory and molecular docking

Steluța Gosav, Cristina Paraschiv, Mirela Praisler

Department of Chemistry, Physics and Environment, INPOLDE research center, Dunărea de Jos University of Galati, 111 Domnească Street, 800201 Galati, Romania; emails: Steluta.Gosav@ugal.ro, Mirela.Praisler@ugal.ro, cristina.paraschiv@gmail.com

OP02. Analysis of the particulate matter long term emissions in Romania by sectors of activities

Simona Condurache-Bota^{1,2,*}, Romana Maria Drașovean¹, Nicolae Tigau¹

¹*Chemistry, Physics and Environment Department, Faculty of Sciences and Environment, "Dunarea de Jos" University of Galati, 111 Domneasca St., 800201 Galati, Romania*

²*REX DAN research infrastructure, Dunarea de Jos University of Galati, 98 George Cosbuc Blvd., 800385, Galati, Romania, *scondurache@ugal.ro*

OP03. Computational assessment of the toxicity of new psychoactive controlled substances

Iulia-Florentina Darie^{1,2,3}, Steluța Gosav³, Mirela Praisler³

¹*Department of Mathematics and Computer Sciences, "Dunărea de Jos" University of Galati, 111 Domnească Street, 800201 Galati, Romania; email: Iulia.Darie@ugal.ro*

²*"Paul Dimo" High School, 27 1 Decembrie 1918 Street, 800566 Galati, Romania.*

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OP04. Deep Convolutional Neural Networks screening for illicit synthetic drugs

Catalina Burlacu, Adrian Constantin Burlacu, Mirela Praisler*

Department of Chemistry, Physics and Environment, Dunărea de Jos University of Galati, 111 Domnească Street, Galati, Romania; emails: Catalina.Burlacu@ugal.ro, Mirela.Praisler@ugal.ro

**INPOLDE interdisciplinary research network, Dunarea de Jos University of Galati, 47 Domneasca St., 800008 Galati, Romania*

SESSION B. Dunarea de Jos University of Galati (UDJG), Romania,
Faculty of Sciences and Environment, SB Building, Third floor

11:30 -14:00 h

POSTERS SESSION

➤ **Conveners:**

Prof.dr. Nicolae Țigău, UDJG, RO

Assist. prof.dr. Romana Maria Drașovean, UDJG, RO



PP01. Acute *in vivo* Toxicity of the Copper(II) Complexes with Novel Ligand: N-[4-((2-[1-(pyridin-2-yl)ethylidene]hydrazinecarbothioyl)amino)phenyl]acetamide.

Ion Toderaş¹, Olga Garbuz^{1,2*}, Nadejda Railean¹, Igor Gosev¹, Roman Rusnac², Victor Tsapcov², Aurelian Gulea²

¹Biological Invasions Research Center, Institute of Zoology, Moldova State University, 1 Academiei Street, MD 2028, Chisinau, Republic of Moldova; *email: olhamos1@gmail.com olga.garbuz@sti.usm.md

²Laboratory of Advanced Materials in Biopharmaceutics and Technics, Moldova State University, 60 Mateevici Street, MD-2009 Chisinau, Republic of Moldova

PP02. Specific features of the retinal fundus images used for diabetic retinopathy characterization

Luminita Moraru^{1,3}, Simona Moldovanu^{2,3}

¹Faculty of Sciences and Environment, Dunarea de Jos University of Galati, 47 Domneasca St., 800008 Galati, Romania

²Faculty of Automation, Computers, Electrical Engineering and Electronics, Dunarea de Jos University of Galati, 47 Domneasca St., 800008 Galati, Romania

³The Modelling & Simulation Laboratory, Dunarea de Jos University of Galati, 47 Domneasca St., 800008 Galati, Romania

PP03. Studies on physical properties of tin oxide films

Nicolae Tigau^{1,*}, Romana Draşovean¹, Simona Condurache-Bota¹

¹Chemistry, Physics and Environment Department, Faculty of Sciences and Environment, "Dunarea de Jos" University of Galati, Romania, 111 Domneasca Street, 800201 Galati, Romania, ntigau@ugal.ro

PP04. The ambient noise level in the city of Galati and surroundings

Romana Maria Draşovean^{1,*}, Simona Condurache-Bota^{1,2}, Nicolae Tigau¹

¹Chemistry, Physics and Environment Department, Faculty of Sciences and Environment, "Dunarea de Jos" University of Galati, Romania, 111 Domneasca Street, 800201 Galati, Romania, *rdrasov@ugal.ro

²REXDAN research infrastructure, Dunarea de Jos University of Galati, 98 George Cosbuc Blvd., 800385, Galati, Romania

PP05. Combined atomic and nuclear techniques (AAS, PIXE, PIGE, ICP-MS) for elemental and isotopic analysis of soils and crops impacted by iron and steel industry

Antoaneta Ene^a, Sorina-Simona Moraru^{a,b*}, Dana Iulia Moraru^{a,c*}, Ana Pantelica^{a,d}, Claudia Stihie^{e,f}

^aINPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, 111 Domneasca Street, 800201, Galati, Romania

^bCounty Office for Pedological and Agrochemical Studies of Galati, 26 Stiintei Street, 800146, Galati, Romania; *simoarb@yahoo.com

^c"Dunarea de Jos" University of Galati, Faculty of Food Science and Engineering, 111 Domneasca Street, 800201 Galati, Romania

^dHoria Hulubei National Institute for R&D in Physics and Nuclear Engineering, 30 Reactorului Street, 077125, Bucharest-Magurele, Romania

^e"Valahia" University of Targoviste, Institute of Multidisciplinary Research for Science and Technology, 13 Sinaia Alley, 130004 Targoviste, Romania

^f"Valahia" University of Targoviste, faculty of Sciences and Arts, 13 Sinaia Alley, 130004 Targoviste, Romania

PP06. Application of non-destructive analytical techniques for the management of hazardous industrial waste

Florin Sloata^{1,2,3}, Antoaneta Ene³, Ana Pantelica⁴

¹Dunarea de Jos University of Galati, Doctoral School of Mechanical and Industrial Engineering, 47 Domneasca Street, 800008 Galati, Romania

²SETCAR S.A., 6 Gradinii Publice St., 810022 Braila, Romania, e-mail: sloataflorin@yahoo.com

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⁴Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Magurele, Romania, e-mail: apantel@nipne.ro

PP07. Analysis of the cast iron microcomposition by Wavelength Dispersive X-ray Fluorescence (WDXRF)

Geta Szabo, Antoaneta Ene

INPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, 111 Domneasca Street, 800201, Galati, Romania

PP08. Study of the hydrocarbon-oxidizing activity of bacterioplankton in the Moldavian section of the Prut River

Olga Jurminskaia¹, Elena Zubcov^{1,*}, Maria Negru¹, Nina Bagrin¹, Antoaneta Ene²

¹State University of Moldova, Institute of Zoology, Chisinau, Republic of Moldova, * email: ecotox@yahoo.com

²Dunarea de Jos University of Galati, INPOLDE research center, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, 47 Domneasca Street, 800008 Galati, Romania

PP09. Ten years of mycotoxin residues screening in products intended for human and animal consumption

Liliana Teodorof¹, Laura Cioroiu¹, Ionut Cazacu¹, Paul Cornel Bria¹, Mitică Tuchilă¹, Antoaneta Ene²

¹Sanitary Veterinary and Food Safety Directorate, teodorof.liliana-tl@ansvsa.ro

²Dunarea de Jos University of Galati, INPOLDE research center, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, 47 Domneasca Street, 800008 Galati, Romania

PP10. Microbiological contamination level of surface water in Danube and NW Black Sea region: coliform and heterotrophic bacteria

Mihaela-Aida Vasile*, Gabriela Bahrim*, Antoaneta Ene **

*"Dunarea de Jos" University of Galati, Faculty of Food Science and Engineering, Galati, Romania

**"Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, INPOLDE research center, Galati, Romania

PP11. Heavy metals determination in soil samples collected from a future residential complex area from Galati, Romania

Alina Sion^{1,*}, Antoaneta Ene¹, Gabriela Cojocaru²

¹"Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, INPOLDE research center, 800008 Galati, Romania; *email: bosneagaalina@yahoo.com

²University of Bucharest, Faculty of Geography, Environmental Policies for Sustainable Development Master Program

PP12. Quality study conducted on the agricultural exploited soil. Case study: Zăvoaia, Brăila County

Alina Sion^{1,*}, Antoaneta Ene¹, Ariana Pătrașcu²

¹“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, INPOLDE research center, 800008 Galati, Romania; *email: bosneagaalina@yahoo.com

²“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, Environmental Monitoring and Management Master Program

PP13. Assessment of groundwater quality from Galati County wells using physico-chemical methods and high-resolution continuum source atomic absorption spectrometry

Antoaneta Ene^a, Dana Iulia Moraru^{a,b}

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^b“Dunarea de Jos” University of Galati, Faculty of Food Science and Engineering, 111 Domneasca Street, 800201 Galati, Romania

PP14. Applications of high-resolution continuum source atomic absorption spectrometry (HR-CS AAS)

Antoaneta Ene^a, Dana Iulia Moraru^{a,b}

^aINPOLDE research center, ReForm-UDJG Platform, “Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, Galati, Romania

^b“Dunarea de Jos” University of Galati, Faculty of Food Science and Engineering, 111 Domneasca Street, 800201 Galati, Romania

PP15. Exploring the microstructure of composite materials with SEM imaging technique: a review

Alina Ceoromila, Geanina Podaru, Iulia Păduraru-Graur

Cross-Border Faculty, Dunarea de Jos University of Galati, alina.cantaragiu@ugal.ro, Geanina.Podaru@ugal.ro, Iulia.Graur@ugal.ro

PP16. SEM investigation of food packaging biopolymers. An overview

Alina Ceoromila, Angela-Stela Ivan, Maricica Stoica

Cross-Border Faculty, Dunarea de Jos University of Galati
alina.cantaragiu@ugal.ro, Angela.Ivan@ugal.ro, maricica.stoica@ugal.ro

PP17. Assessment of the efficiency of reducing heavy metals from industrial water using filter papers with added seaweed mass

Florina-Cristiana (Filote) Căpriță^{a*,b}, Antoaneta Ene^b

^aDunarea de Jos University of Galati, Doctoral School of Mechanical and Industrial Engineering, 47 Domneasca Street, 800008 Galati, Romania; email: caprita.f@yahoo.com

^bINPOLDE interdisciplinary research network, Dunarea de Jos University of Galati, Faculty of Sciences and Environment, Galati, Romania

14:00-15:00 h Lunch break

15:00-16:00 Round table – INTERVENT & MONITOX project teams

Discussions related to project results, publications and future prospects



20th October, 2023

SESSION C. Dunarea de Jos University of Galati (UDJG), Romania,
Faculty of Sciences and Environment, Hall SB401 & Microsoft Teams

10:00-11:20 h

PLENARY SESSION

➤ **Conveners:**

Prof. dr. Huseyin Ozan Tekin, University of Sharjah, UAE
Prof. dr. habil. Antoaneta Ene, Project Manager UDJG, RO

INVITED LECTURES

IL04. Monitoring of toxic pollutants and contaminants of emerging concern (CECs) in the Danube River and Delta and the Black Sea Basin: INPOLDE and MONITOX international networks

Antoaneta Ene^{1*,2}, Elena Zubcov^{2,3}, Liliana Teodorof^{2,4}, Carmen Lidia Chițescu⁵, Gabriela Bahrim⁶, Mihaela-Aida Vasile⁶, Oleg Bogdevich^{2,7}, Yuriy Denga^{2,8}, Svetlana Kovalyshyna^{2,8}

¹ "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, Galati, Romania, aene@ugal.ro

² INPOLDE interdisciplinary research network, ReForm Multidisciplinary Platform, Dunarea de Jos University of Galati, Galati, Romania

³ State University of Moldova, Institute of Zoology, Chisinau, Republic of Moldova

⁴ Danube Delta National Institute, Tulcea, Romania

⁵ Dunarea de Jos University of Galati, Faculty of Medicine and Pharmacy, 35 A.I. Cuza St., 800010 Galati, Romania

⁶ Dunarea de Jos" University of Galati, Faculty of Food Science and Engineering, Galati, Romania

⁷ State University of Moldova, Institute of Geology and Seismology, Chisinau, Republic of Moldova

⁸ SRI Ukrainian Scientific Center of Ecology of the Sea, Odessa, Ukraine

IL05. Occurrence and fate of emerging contaminants in water – current analytical challenges

Carmen Lidia Chitescu

Dunarea de Jos University of Galati, Faculty of Medicine and Pharmacy, 35 A.I. Cuza St., 800010 Galati, Romania

IL06. Navigating dosimetric pathways: a comprehensive biokinetic and dosimetry assessment of ⁸⁹Zr-labelled monoclonal antibodies in human subjects

Hesham M.H. Zakaly

Physics Department, Faculty of Science, Al-Azhar University, 71524 Assiut, Egypt; h.m.zakaly@azhar.edu.eg

IL07. Application of geographic information systems in agriculture

Amanova Shahnaz

Ministry of Agriculture of the Republic of Azerbaijan, Research Institute of Crop Husbandry, shahnaz.amanova@gmail.com

11:20-11:45 h Coffee break

11:45-13:00 h

SESSION D. Dunarea de Jos University of Galati (UDJG), Romania,
Faculty of Sciences and Environment, Room SB301

VIRTUAL POSTERS PRESENTATIONS SESSION

➤ **Conveners:**

Lect. dr. Alina Sion, UDJG, RO

Assist. dr. Geta Szabo, UDJG, RO

VP01. The role of acquiring new knowledge on aquatic ecosystems in their preservation and rational use in a changing world

Elena Zubcov^{1,*}, Laurentia Ungureanu¹, Nina Bagrin¹, Natalia Zubcov¹, Lucia Bilețchi¹, Antoaneta Ene², Bulat Dumitru¹, Olga Jurminskaia¹, Victor Ciornea¹, Denis Bulat¹, Petru Ciorba¹, Anastasia Ivanova¹, Svitlana Kovalyshyna^{3,4}

¹State University of Moldova, Institute of Zoology, Hydrobiocenosis and Ecotoxicology Research Center, INPOLDE interdisciplinary research network, Chisinau, Republic of Moldova; *elzubcov@mail.ru

²INPOLDE research center, Dunarea de Jos University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, Galati, Romania

³Scientific Research Institution, Ukrainian Scientific Centre of Ecology of the Sea, Odessa, Ukraina,

⁴University of Toronto, 25 Willcocks St, Toronto, Ontario, Canada, M5S 3B2

VP02. Monitoring of radon concentrations in educational institutions in the municipalities of Chisinau and Cahul in the Republic of Moldova

Liuba Corețchi, Aurelia Ababii, Ala Overcenco, Alexandra Filonov, Parascovia Romanciuc, Angela Capățina, Antonov Zinovia, Antoaneta Ene*

National Agency for Public Health, Chisinau, Republic of Moldova, e-mail: coretchiliuba@gmail.com

* INPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, 111 Domneasca Street, 800201, Galati, Romania

VP03. Program of measures for improving hydromorphological status of surface waters in the limits of North Development Region of the Republic of Moldova

Ana Jeleapov

Institute of Ecology and Geography, Moldova State University

VP04. About the integration of physical and biological components of the river ecosystem

Svitlana Kovalyshyna^{1,2}, Maria Grandova¹, Tatiana Chuzhekova¹, Mikhailo Nabokin¹, Volodymyr Ukrainskiy¹, Yuriy Denga¹, Elena Zubcov³, Antoaneta Ene⁴, Alexander Matygin⁵

¹Ukrainian Scientific Centre of Ecology of the Sea, Scientific Research Institution, 89 Frantsuzsky Blvd., 65009 Odessa, Ukraine; svetakovalish@gmail.com, chuzhekova@gmail.com, mariagrandova@gmail.com, vladukr49@gmail.com, m.nabokin1@gmail.com

²University of Toronto, 25 Willcocks St., Toronto, Ontario, Canada, M5S 3B2; svitlana.kovalyshyna@utoronto.ca

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⁵Hydrometeorological Center for Black and Azov Seas, The State Emergency Service of Ukraine, 89 Frantsuzsky Blvd., 65009 Odessa, Ukraine; acm32alex@gmail.com

VP05. On the oxygen regime of the lower Dniester

Alexander Matygin¹, Svitlana Kovalyshyna^{2,3}, Antoaneta Ene⁴, Elena Zubcov⁵, Ilya Trombitsky⁶

¹ Hydrometeorological Center for Black and Azov Seas, The State Emergency Service of Ukraine, 89 Frantsuzsky Blvd., 65009 Odessa, Ukraine; acm32alex@gmail.com

² Ukrainian Scientific Centre of Ecology of the Sea, Scientific Research Institution, 89 Frantsuzsky Blvd., 65009 Odessa, Ukraine;svetakoalish@gmail.com

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⁵State University of Moldova, Institute of Zoology, 1 Academiei Street, MD-2028 Chisinau, Republic of Moldova; elzubcov@mail.ru

⁶International Association of River Keepers Eco-TIRAS, Moldova, ilyatrom@mail.ru

VP06. Direct optical particle tracking - a technique for size distribution assessment

Dan Chicea^{1,2}, Alexandra Nicolae-Maranciuc^{1,2,3}

¹ Research Center for Complex Physical Systems; e-mail: dan.chicea@ulbsibiu.ro

² Faculty of Sciences, Lucian Blaga University of Sibiu, Dr. Ion Rațiu Street 5-7, Sibiu, Romania

³ Institute for Interdisciplinary Studies and Research, Lucian Blaga University of Sibiu; e-mail: alexandra.nicolae@ulbsibiu.ro

VP07. Pb and Cd air pollution sources identification by moss biomonitoring in Romania

Claudia Stihia^{a,b}, Antoaneta Ene^c

^a"Valahia" University of Targoviste, Institute of Multidisciplinary Research for Science and Technology, 13 Sinaia Alley, 130004 Targoviste, Romania

^b"Valahia" University of Targoviste, faculty of Sciences and Arts, 13 Sinaia Alley, 130004 Targoviste, Romania

^cINPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, 111 Domneasca Street, Galati, Romania

VP08. Outdoor gamma dose rate and risk to population in urban, natural and recreational sites from Danube and Prut river basins, Black and Aegean Seas

Antoaneta Ene^{1,2*}, Elena Zubcov^{1,3}, Oleg Bogdevich^{1,4}, Thomas Spanos⁵, Liliana Teodorof⁶, Laurentia Ungureanu³, Christina Xatzichristou⁵, Steluța Gosav^{1,2}, Romana Drașovean^{1,2}, Emilian Bujor Dănilă^{1,2}, Alina Sion^{1,2}, Geta Szabo^{1,2}

¹INPOLDE interdisciplinary research network, Dunarea de Jos University of Galati, 111 Domneasca St., 800201 Galati, Romania, aene@ugal.ro

² Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunarea de Jos" University of Galati, 47 Domneasca St., 800008 Galati, Romania

³ State University of Moldova, Institute of Zoology, Chisinau, Republic of Moldova

⁴ State University of Moldova, Institute of Geology and Seismology, Chisinau, Republic of Moldova

⁵International Hellenic University (IHU), Faculty of Natural Sciences, Department of Chemistry, Kavala, Greece

⁶Danube Delta National Institute for Research and Development, Tulcea, Romania

VP09. The testing of the environmentally friendly technology for the remediation of POPs contaminated sites

Oleg Bogdevich¹, Inna Rastimesina², Elena Culighin¹, Elena Nicolau¹, Olga Postolachi²

¹Moldavian State University, Republic of Moldova, Institute of Chemistry

² Technical University of Moldova, Institute of Microbiology

VP10. Consumer awareness regarding the necessity of transition to healthy and sustainable diets

Dana Iulia Moraru^a, Vlad Ștefan Dima^b

^a“Dunărea de Jos” University of Galati, Faculty of Food Science and Engineering, 111 Domneasca Street, 800201 Galati, Romania

^b“Dunărea de Jos” University of Galati, Faculty of Medicine and Pharmacy, Galati, Romania

VP11. PIXE-PIGE and SEM-EDX analysis of steels with special utilizations

Antoaneta Ene¹, Ana Pantelica², Alina Ceoromila^{1,3}

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³Cross-Border Faculty, Dunarea de Jos University of Galati

VP12. XRF analysis of heavy metals in soils collected from different playgrounds from Galati city, Romania

Alina Sion^{1*}, Antoaneta Ene¹, Vasile Bașliu²

¹“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, INPOLDE research center, 800008 Galati, Romania; *email: bosneagaalina@yahoo.com

²“Dunarea de Jos” University of Galati, Faculty of Engineering

VP13. Vehicle emissions effects on soil quality from a public park area in Galati, Romania

Alina Sion^{1*}, Antoaneta Ene¹, Andreea-Cătălina Gîrmacea²

¹“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, INPOLDE research center, 800008 Galati, Romania; *email: bosneagaalina@yahoo.com

²“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, Environmental Monitoring and Management Master Program

VP14. Influence of agricultural practices on soil quality. Study case: Fundeni, Galati city

Alina Sion^{1*}, Antoaneta Ene¹, Loredana Nicolau²

¹“Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, INPOLDE research center, 800008 Galati, Romania; *email: bosneagaalina@yahoo.com

² “Dunarea de Jos” University of Galati, Faculty of Sciences and Environment, Environmental Sciences Program

VP15. The effect of trace metals on growth and development of fish and the possibilities of using trace elements in fish farming

Natalia Zubcov, Elena Zubcov*

Moldova Staty University, Institute of Zoology, Research Centre de of Hydrobiocenoses and Ecotoxicology; email: ecotox@yahoo.com



11:45-13:45 h

**SESSION E. Dunarea de Jos University of Galati (UDJG), Romania,
Faculty of Sciences and Environment, Room SA002**

Laboratory training

➤ **Conveners:**

Prof. dr. habil. Antoaneta Ene, Project Manager UDJG, RO

Prof. dr. Huseyin Ozan Tekin, University of Sharjah, UAE

LT01. Laboratory applications of gamma rays' attenuation

Antoaneta Ene¹, Huseyin Ozan Tekin²

¹ INPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, 111 Domneasca Street, 800201, Galati, Romania; email: aene@ugal.ro

²Department of Medical Diagnostic Imaging, College of Health Sciences, University of Sharjah, 27272, Sharjah, United Arab Emirates, htekin@sharjah.ac.ae

LT02. Applications of gamma ray spectrometry using scintillation and semiconductor detectors

Huseyin Ozan Tekin¹, Antoaneta Ene²

¹Department of Medical Diagnostic Imaging, College of Health Sciences, University of Sharjah, 27272, Sharjah, United Arab Emirates, htekin@sharjah.ac.ae

² INPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, 111 Domneasca Street, 800201, Galati, Romania; email: aene@ugal.ro

LT03. Measurement of radon and thoron in indoor environments and population dose evaluation

Antoaneta Ene¹, Huseyin Ozan Tekin²

¹ INPOLDE research center, ReForm-UDJG Platform, "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, 111 Domneasca Street, 800201, Galati, Romania; email: aene@ugal.ro

²Department of Medical Diagnostic Imaging, College of Health Sciences, University of Sharjah, 27272, Sharjah, United Arab Emirates, htekin@sharjah.ac.ae

14:00-15:00 h Lunch break

15:00-16:00 Dosimetry measurements training: evaluation of outdoor gamma radiation dose rate