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PROGRAM

INTERNATIONAL CONFERENCE

Environmental challenges in Lower Danube Euroregion

**June 25–26th, 2015
GALATI, ROMANIA**

organized in the frame of the

Project MIS ETC 1676

**“Cross-border interdisciplinary cooperation
for the prevention of natural disasters and mitigation of environmental
pollution in Lower Danube Euroregion”**



PARTNER INSTITUTIONS INPOLDE NETWORK

“Dunarea de Jos” University of Galati, Romania (UDJG)

Institute of Zoology, Academy of Sciences of Moldova (IZ-ASM)

Institute of Geology and Seismology, Academy of Sciences of Moldova (IGS-ASM)

Ukrainian Scientific Centre of Ecology of the Sea, Ukraine (UkrSCES)



CONFERENCE PROGRAM

June 24th, 2015

- 17:00 – 19:00 Receiving of foreign participants and registration – Hotel Centrum Galati
19:00 – 21:30 Welcome Party and Conference Dinner – Hotel Centrum Galati

June 25th, 2015

- 08:30 – 09:30 Registration – UDJ Galati, SB Building, 1st Floor, Room SB107
09:30 – 11:15 Opening Ceremony and Plenary Lectures - SB Building, Hall: SB 401
11:15 – 11:45 Coffee Break (SB building – 3rd floor)
11:45 – 13:00 Oral presentations in concurrent sections – Sections 1, 2, 3, 4
13:00 – 14:30 Lunch Break
14:30 – 16:00 Poster Session – Sections 1, 2, 3
16:00 – 18:00 Oral presentations in concurrent sections – Sections 1, 2, 3, 4, 5
18:00 – 19:00 Discussions between project members and conference participants
19:00 – 21:30 Dinner

June 26th, 2015

- 08:30 – 10:00 Poster Session – Sections 4,5 (building SB – 3rd floor)
10:00 – 10:30 Coffee Break (building SB – 3rd floor)
10:30 – 12:00 Oral presentations in concurrent sections – Sections 1, 2, 5
12:00 – 12:30 Discussions and closing ceremony
12:30 – 13:30 Lunch
13:30 – 14:30 Steering Meeting of Project MIS ETC 1676 (Hotel Centrum Galati)

June 25th, 2015

Hall: SB 401

09:30 – 09:45 Opening Ceremony. Presentation of the Project MIS ETC 1676

Conference Chairs: Prof.dr.eng.phys.**Antoaneta Ene** – *Project Manager, UDJG, Romania*
Prof.dr.hab. **Elena Zubcov** – *Project coordinator 1, IZ-ASM, Moldova*
Dr. geol. **Oleg Bogdevich** – *Project coordinator 2, IGS-ASM, Moldova*
Dr. chem. **Yuriy Denga** – *Project coordinator 3, UkrSCES, Ukraine*

PLENARY SESSION – INVITED LECTURES

09:45 – 11:15 Hall: SB 401

Chairs: Prof.dr.**Antoaneta Ene** – UDJG
Prof.dr.hab. **Elena Zubcov** – IZ-ASM

IL.1. Organization and conducting of ecological monitoring of the Lower Danube
Antoaneta Ene, Oleg Bogdevich, Yuriy Denga, Elena Zubcov

IL.2. Microelements (As, Pb, Ni, Cu, Zn, Mn) in waters of the Prut River
Elena Zubcov, Natalia Zubcov, Lucia Biletschi, Nina Bagrin, Antoaneta Ene, Oleg Bogdevici,
Yuriy Denga, Sergiu ova, Victor Ciornea

IL.3. Seismic risk of Lower Danube Euroregion: Cahul and Cantemir districts (Moldova) case study
Vasile Alcaz, Eugen Isicico

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IL.4. Evaluation of the ecological state of the Lower Danube in the summer - autumn 2014

Svetlana Kovalishina, Maria Grandova, Oleg Kachalov

IL.5. Study of water quality discharged into Danube River - Galati town area

Itefan Dragomir, Antoaneta Ene

IL.6. Ichthyofauna diversity of the Prut River and the major threats

Dumitru Bulat, Denis Bulat, Ion Toderas, Marin Usatii, Lucia Biletchi, Antoaneta Ene, Oleg Bogdevici, Yuriy Denga

ORAL SESSIONS IN CONCURENT SECTIONS

June 25th, 2015

11:45 – 13:00 Hall: SB 401

SESSION I - *Pollutants in environment, Natural and anthropogenic hazards*

Chairs: Dr. hab. **Vasile Alcaz** – IGS-ASM

Dr. chem. **Yuriy Denga** – UkrSCES

O1. Quantification of heavy metals and trace elements in soils using XRF technique

Antoaneta Ene, Oleg Bogdevich, Yuriy Denga, Elena Zubcov

O2. Critical infrastructure monitoring and protection against hazards

Anatolie Sidorenko, Andrei Prepelita, Oleg Bogdevici, Lucia Nastasiuc, Ashok Vaseashta

O3. Study of POPs polluted sites in Lower Prut region of Republic of Moldova

Oleg Bogdevich, Antoaneta Ene, Oleg Cadocinicov, Elena Culighin, Elena Nicolau, Vladimir Bogdevich

O4. PAHs analysis in soil and sediments from Lower Prut wetlands

Oleg Bogdevich, Antoaneta Ene, Oleg Cadocinicov, Elena Culighin, Elena Nicolau

O5. Polycyclic aromatic hydrocarbons in bottom sediments of the Lower Danube

Kyrylo Tsymbaliuk, Yuriy Denga

O6. Results for AAS analyses of trace metals in the Lower Danube

Vladimir Kolosov, Irina Gruzova, Yuriy Denga

O7. Levels of gamma radiation dose rates in selected areas of Lower Danube Euroregion

Antoaneta Ene, Elena Zubcov, Oleg Bogdevich, Yuriy Denga

O8. Spatial variation of outdoor gamma radiation dose rates in selected locations of Cahul town, Republic of Moldova

Antoaneta Ene, Adrian Circiumaru

11:45 – 13:00 Hall: SB 204

SESSION II - *Hydrobiological investigations. Interdisciplinary studies, Integrated approach to environmental education*

Chairs: Prof.dr. hab. **Elena Zubcov** – IZ-ASM

Dr. geol. **Oleg Bogdevich** – IGS-ASM

O9. Current state of phytoplankton in the Prut River lower sector

Lauren ia Ungureanu, Daria Tumanova, Grigore Ungureanu, Antoaneta Ene

O10. Macrozoobenthos of the Lower Danube (summer – autumn 2014)

Svetlana Kovalishina, Maria Grandova, Oleg Kachalov

O11. Information System of the Lower Danube region

Tatiana Gavrilova, Richard Lisovsky

O12. Analysis of heavy metal content of sewage sludge from wastewater treatment plants

Thomas Spanos, Antoaneta Ene

O13. Evaluation of soil organic pollutants analysis data using multivariate statistical methods.

Antoaneta Ene, Thomas Spanos, Oleg Bogdevich

O14. Study of heavy metals from atmospheric deposition using mosses as bioindicators

Antoaneta Ene, Dragos Neculae

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16:00 – 18:00 Hall: SB 204

SESSION III - *Pollutants in environment, Hydrobiological investigations. Interdisciplinary studies*

Chairs: Prof.dr. **Mirela Praisler** – UDJG

Dr. **Dumitru Bulat** – IZ-ASM

O15. Nitrogen compounds in the Lower Prut waters

Natalia Borodin, Nina Bagrin

O16. First record of the species *Benthophilus nudus* (Berg, 1898) in the Prut River

Dumitru Bulat, Denis Bulat, Elena Zubcov, Lucia Biletschi

O17. Invasive ichthyofauna of the Lower Prut River ecosystem

Denis Bulat, Dumitru Bulat, Laurenția Ungureanu, Ana Dadu

O18. Phytoplankton state of Prut Lakes

Laurenția Ungureanu, Daria Tumanova, Antoaneta Ene

O19. Combining geo-information technology and urban planning to improve the flood resilience of the Danube riverfront in Galati, Romania

Atanasia Stoica, Luminita Dumitriu, Mirela Praisler

O20. Non-structural methods applied for flood management based on geo-information technology (Case study: industrial settings on the Danube riverfront, Galati, Romania)

Atanasia Stoica, Luminita Dumitriu, Mirela Praisler

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10:30 – 12:00 Hall: SB 401

SESSION IV - *Pollutants in environment, Natural and anthropogenic hazards, Integrated approach to environmental education*

Chairs: Assoc.Prof.dr. **Emilian Danila** – UDJG

Dr.Assoc.Prof. **Lucia Biletschi** – IZ-ASM

O21. Some aspects of sustainable development in Lower Danube region in the context of potential prospection of oil and gas in the Republic of Moldova

Gheorghe Duca, Igor Nicoara, Cristina Mogorici

O22. Biostimulation the metabolic activity of the microorganisms involved in biodegradation of pharmaceutical residues in aquatic environments

Claudia Ungureanu, Adrian Nita, Antoaneta Ene, Gabriela Bahrim

O23. Natural hazards prevention in Low Danube region.

Ilie Sandu, Ion Ilies, Anatoly Sidorenco

O24. Using aerial images to identify changes in land coverage in Danube Delta

Emilian Danila, Adriana Danila, Antoaneta Ene, Hahuie Valentin, Luminița Moraru

O25. Using satellite images to identify changes in forest coverage

Valentin Hahuie, Emilian Danila, Lucian Georgescu, Adriana Danila

POSTER SESSIONS

June 25th, 2015

14:30 – 16:00 Poster Session I– Sections 1, 2, 3 (SB building – 3rd floor)

Chairs: Lect.dr. **Romana Drasovean** – UDJG

Lect.dr. **Steluta Gosav** – UDJG

SECTION 1. Pollutants in environment

P1. Main ions and mineralization of the Lower Prut waters on Gotesti-Giurgiulesti sector

Nina Bagrin, Elena Zubcov, Lucia Biletschi, Antoaneta Ene, Anastasia Ivanova, Oleg Bogdevici, Yuriy Denga



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P2. Hydrochemical characteristics of waters of the Lower Danube

Yuriy Denga, Vladimir Pisarenko

P3. The determination of the tolerable and optimal limits of trace metals in the environment

Elena Zubcov, Natalia Zubcov

SECTION 2. Natural and anthropogenic hazards

P4. Assessment of anthropogenic pollutions according the density of phenolytic and petrolytic microorganisms

Maria Negru, Olga Jurminskaia, Igor Shubernetskii

P5. Temporal variability of pollutants in the bottom sediments of the Danube coastal zone area

Nicolay Berlinsky, Olga Podust

P6. The content of surface-active agents in the Prut River

Anastasia Ivanova

P7. Ciliated protozoa and parasites pattern recognition by image analysis in water samples

Luminita Moraru, Antoaneta Ene

P8. Microbiological quality of water sampled from various sources in Lower Danube region

Claudia Ungureanu, Mihaela Turturica, Antoaneta Ene, Gabriela Bahrim

P9. The impact of the pollution on water and soil resources from Danube Delta

Maria Vlad, Gelu Movileanu

P10. Toxicological study on some chemical compounds using the molecular modeling and FTIR spectroscopy

Steluta Gosav, Nicoleta Paduraru, Antoaneta Ene, Romana Drasovean

P11. The evaluation of geological hazard in Low Prut region: case studies of localities from Republic of Moldova

Igor Nicoara, Oleg Bogdevici, Cristina Mogorici, Eugen Isicico

P12. The monitoring of Seismic Hazard in Republic of Moldova.

Ion Ilies

SECTION 3. Hydrobiological investigations

P13. Zooplankton investigations in aquatic ecosystems of Lower Danube Euroregion

Olga Jurminskaia, Igor Shubernetskii, Liubovi Lebedenco, Elena Zubcov, Antoaneta Ene, Yuriy Denga, Oleg Bogdevici

P14. Phytoplankton of the Lower Danube in summer – autumn 2014

Galina Terenko

P15. On the status of macrobenthic invertebrates populations from the Lower Danube

Oxana Munjiu, Ion Toderaş, Igor Suberņetskii, Lucia Biletchi, Antoaneta Ene, Nadejda Andreev, Yuriy Denga

P16. Interdisciplinary centre for environmental study and monitoring in Low Danube Region

Gheorghe Duca, Elena Zubcov, Oleg Bogdevich

P17. On the status of bacterioplankton in the Lower Prut and Danube rivers

Igor Suberņetskii, Maria Negru, Elena Zubcov, Antoaneta Ene, Oleg Bogdevici, Yuriy Denga

P18. Hydrobiological investigations of phytobenthos in Belev Lake

Natalia Ungurean

P19. Preliminary aspects concerning the plankton qualitative structure in the Danube River

Adina Popescu, Ion Vasilean, Antoaneta Ene

P20. Ecological aspects of the ichthyofauna from Predeltaic Danube area

Marian Tiberiu Coada, Eugen Corbu



June 26th, 2015

08:30 – 10:00 Poster Session II – Sections 4,5 (building SB – 3rd floor)

Chairs: Prof.dr. **Constantin Gheorghies** – UDJG

Lect.dr. **Simona Condurache-Bota** – UDJG

SECTION 4. Interdisciplinary studies

P21. The characteristic of groundwater potential in Lower Prut region.

Ghene Jalalite, Victor Jeleapov, Igor Nicoara

P22. Studies concerning the effect of Zn and Cu concentrations from growing soil in the heavy metals concentration of *Lactuca Sativa* leaves

Claudia Stih, Cristiana Radulescu, Cristina Nicolescu, Ioana Daniela Dulama, Rodica Racasanu, Alin Bucurica

P23. Dyes removal from wastewaters using ecofriendly adsorbents

Cristiana Radulescu, Claudia Stih, Cristina Nicolescu, Ioana Daniela Dulama, Raluca Stirbescu

P24. Preliminary investigation on the chemical quality of water from Lower Danube region, Romanian part

Claudia Ungureanu, George Ifrim, Antoaneta Ene, Gabriela Bahrim

P25. Seasonal characterization of the physico-chemical parameters of Danube River water, Isaccea-Vilkovo sector

Sandica Pintea, Victor Cristea, Antoaneta Ene, Mirela Crețu, Elena Bocioc, Marian Tiberiu Coadă

P26. Comparative analysis of air quality for three cities in Moldova (Romania):

Galati, Iasi and Bacău

Iulian Filimon, Emilian Danila, Michaela Dobre, Mirela Praisler, Dima Dumitru

P27. Assessment of the effect of geoclimatic conditions on air quality: a case study for the cities of Constanta, Galati and Brasov (Romania)

Iulian Filimon, Emilian Danila, Michaela Dobre, Mirela Praisler, Dima Dumitru

P28. Identification and selection of streptomycetes producing feruloyl esterases.

Mihaela Turturic, Laura Leonov, Gabriela Bahrim

P29. The lactic acid fermentation a method of obtaining vegetable products safe for human consumption

Dana Moraru, Luminita Georgescu, Antoaneta Ene

P30. Study on some underground waters from Galati County

Ionelia Sandu, Eugen Busila

SECTION 5. Integrated approach to environmental education

P31. Applications of gamma-rays spectrometry and nuclear dosimetry

Antoaneta Ene, Emilian Danila, Adrian Circiumaru, Constantin Gheorghies, Romana Drasovean, Steluta Gosav, Stefan Dragomir, Marius Bodor, Vasile Bria, Nicusor-Daniel Patrascu, Eugenia Pascu, Gina Gavril, Alina Slobodeniuc, Cristina Ariton, Olimpia Stoleru, Sergiu Ciobanu, Andreea Ene, Leonard Chirita, Ionelia Sandu

P32. Applications of atomic and nuclear spectrometric methods for water and soil analysis

Antoaneta Ene, Anda Bradler, Elena Chirac, Daniela Soimu

P33. Monitoring greenhouse gases in Romania

Romana Drasovean, Steluta Gosav, Nicoleta Purduru, Antoaneta Ene

P34. Nuclear energy and radioactive pollution

Simona Condurache-Bota, Antoaneta Ene, Gabriela Pavelascu

P35. Recent developments in air quality in Europe

Simona Condurache-Bota, Antoaneta Ene, Amira Teodora Antohe, Gic Condurache-Bota

P36. Greenhouse gases: trends worldwide from the EDGAR database

Simona Condurache-Bota, Antoaneta Ene, Cristian Androni, Gic Condurache-Bota

P37. Tulcea county air pollution

Mihaela Cudbeanu, Mihaela Istrate