



Project funded by the
EUROPEAN UNION



Common borders
Common solutions

CONFERENCE PROGRAMME 24-26 May 2023

TITLE: “Protecting water resources with nature-based solutions” “PS4S-2023”

Dedicated to the
European Day of Parks 2023 (24th May 2023) "Building on our roots" &
World Environment Day (5th June 2023) "Solutions to plastic pollution"

Venue: Main Amphitheater, School of Geotechnical Sciences,
International Hellenic University (IHU), Drama, GREECE

“Protect-Streams-4-Sea”

“Protecting streams for a clean Black Sea by reducing sediment and litter pollution with joint innovative monitoring and control tools and nature-based practices” (BSB963)

1st day: 24 May 2023 (Wednesday)

08:30 - 9:00 Registration for field visit to pilot area

(Registration needs to be done on-line prior to field visit day. IF YOU HAVE NOT REGISTERED YOU CANNOT PARTICIPATE)

09:00 - 18:00 Field visit to the Greek Pilot Area (Aggitis Watershed)

- Park of Agia Varvara in Drama
 - Aggitis River
 - Holy Monastery of the Ascension (Pangaio Mt, Proti Serron)
 - Kasta Tomb
 - Archaeological Museum of Amfipolis (or Amphipolis)
 - Archaeological Sites of Amfipolis (mosaic, wall, villa, tombs, stadiums, gymnasium, bridge, the Lion of Amfipolis)
 - Delta of Strymonas - A Natura2000 Protected Site
 - Port of Amfipolis - Strymonikos Gulf
 - Ofrynio Beach (Touzla)
-



Project funded by the
EUROPEAN UNION



Common borders
Common solutions

2nd day: 25 May 2023 (Thursday)

09:30 - 10:00 Registration

The 1st Session “KEYNOTE speakers”

Chairs: Valasia IAKOVOGLOU and Ilya TROMBITSKY

10:00 - 10:10 Opening Remarks

10:10 - 10:30 “Forest Science for Future Forest: The contribution of Forest Service to LIFEGENMON PROJECT” - Mr. Fotis KIOURTSIS (Inspection Directorate for Forest Policy Implementation of Environment and Energy, of Macedonia & Thrace-Ministry GREECE)

10:30 - 10:50 “The ppGIS/webGIS LIFE-IP 4 NATURA for the promotion and monitoring of ecosystem services in Greece” - Assoc. Prof. George MALLINIS (School of Rural and Surveying Engineering, Aristotle University, GREECE)

10:50 - 11:10 “Tenagi Philippon - past, present and future. Activities from the Geotechnical Chamber of Eastern Macedonia.” - Mr. Theodoros AMPELIDIS (Geotechnical Chamber of Eastern Macedonia, GREECE)

11:10 - 11:30 “Forest Fires, Firefighting and Means” - Mr. Vasilios KARYDAS (Investigation Officer - Hellenic Fire Brigade, GREECE)

11.30 -11.50 “Improving Earthquake Resilience with Decision Supporting Systems and focused on the Public, Education” - Prof. Konstantinos PAPTAEODOROU (Surveying & Geoinformatics Dept. International Hellenic University, GREECE)

Coffee Break (11:50 - 12:10)

The 2nd Session “Protect-Streams-4-Sea Results I”

Chairs: Oana RISTEA and Mehmet YAVUZ

12:10 - 12:30 “Protecting streams for a clean Black Sea by reducing sediment and litter pollution with joint innovative monitoring and control tools and nature-based practices - BS963-Protect-Streams-4-Sea” - Assoc. Prof. George ZAIMES (Project Coordinator, GERi Lab, International Hellenic University, GREECE)

12:30 - 12:45 “Aiming for clean waters through sustainable management for the Black Sea Region: the Greek Pilot Area” - Dr. Valasia IAKOVOGLOU (Senior Researcher, GERi Lab, International Hellenic University, GREECE)

12:45 - 13:00 “Investigation of macroplastic and microplastic fractions in Siriu reservoir and Buzău river course: the Romanian pilot case study - “PS4S-2023” - Dr. Maria MARINESCU (Project local manager/BIWA, ROMANIA)

13:00 - 13:15 “Quantitative relationship of heavy metals in soil and sediment as an alternative fingerprinting analysis in Debed river basin” - Mrs. Luiza GEVORGYAN (Project researcher/“Young Foresters Union” - UYF, ARMENIA)

13:15 - 13:30 “Application of innovative technologies in the assessment of soil erosion and sediment in Moldova” - Dr. Roman COROBOV (Eco-TIRAS, MOLDOVA)

Group Photo (13:30 - 13:40)

Lunch Break (13:40 - 15:00)



Project funded by the
EUROPEAN UNION



Common borders
Common solutions

The 3rd Session “Protect-Streams-4-Sea Results II”

Chairs: Maria MARINESCU and Mustafa TUFEKCIOGLU

15:00 - 15:15 “Integration of GIS technologies in RUSLE method for estimation of susceptibility to erosion in Baltata River” - Mrs. Olga CRIVOVA (Researcher, Eco-Tiras, MOLDOVA)

15:15 - 15:30 “Soil erosion and flooding in Arhavi Kapisre Creek due to land-use alteration and channel morphological change” - Assoc. Prof. Mustafa TUFEKCIOGLU (Project local manager/ACU, TÜRKIYE)

15:30 - 15:45 “Stream Channel Profiling and Lateral Channel Migration from 1960 to 2023 in Arhavi Kavak Creek using UAV” - Assoc. Professor Mehmet YAVUZ (ACU Researcher, TÜRKIYE)

15:45 - 16:00. “Hydrologic modeling in Aggitis River Basin” - Dr. Paschalis KOUTALAKIS (IHU Researcher, GREECE)

16:00 - 16:30 KEYNOTE: “Utilization of Photosynthetic Microalgae for the Treatment of High Nitrogen Wastewaters” - Prof. Petros SAMARAS (Dean, School of Geosciences, IHU, GREECE)

Coffee Break (16:30 - 16:45)

The 4th Session “Protecting Black Sea Region”

Chairs: George ZAIMES and Petros SAMARAS

16:45- 17:00 “Assessment of local people’s perception about environmental impacts of forest land allocation: The case of projects in Istanbul” - Dr. Gizem ŞAHİN (Istanbul University-Cerrahpasa, TÜRKIYE)

17:00 - 17:15 “Ecologically oriented land use planning in the Lake Sevan basin” - Dr. Narek HARUTYUNYAN (Yerevan State University, ARMENIA)

17:15 - 17:30 “Optimizing wastewater treatment and agriculture sustainability: Investigating the use of primary and activated sludge combination and flotation for resource recovery” - Petru SPATARU (Institute of Chemistry, Moldova State University, MOLDOVA)

17:30 - 17:45 “Optimizing nitrogen and phosphorus recovery via anaerobic digestion supernatant and struvite production: a path to optimal resource recycling” - Igor POVAR (Institute of Chemistry, Moldova State University, MOLDOVA)

Questions & Answers (17:45 - 18:00)

The Scientific/Financial Committee Meeting (only project partners) (18:15 - 21:00)



Project funded by the
EUROPEAN UNION



Common borders
Common solutions

3rd day: 26 May 2023 (Friday)

09:15 - 9:45 Registration

The 1st Session “Water Management”

Chair: George ZAIMES and Roman COROBOV

9:45 - 10:00 Opening Remarks

10:00 - 10:10 “The WaSec Project - Sustainable Water Management in the Eastern Mediterranean through New Courses with Innovative Topics and Learning Approaches” - Assoc. Prof. George ZAIMES (Project Coordinator, GERi Lab, International Hellenic University, GREECE)

10:15 - 10:30 “The PARADOX Project - Innovative training approach in the technology-assisted environment for water management” - Dr. Valasia IAKOVOGLOU (Senior Researcher, GERi Lab, International Hellenic University, GREECE)

10:30 - 10:45 “A fortress instead of a flood zone” - Mr. Iordanis KASAPIDIS (IHU Researcher, GREECE)

10:45 - 11:00 “Lagoon of Epanomi. Best practices for the sustainable management” - Mr. Panagiotis KALAITZIS (Student, International Hellenic University, GREECE)

11:00 - 11:15 “Hydrological Forest Restoration - A Nature-based Solution” - Dr. Jose Luis GARCIA (Professor, Polytechnic University of Madrid, SPAIN)

Coffee Break (11:15 - 11:30)

The 2nd Session “Sustainability and Ecotourism”

Chairs: Valasia IAKOVOGLOU and Oana RISTEA

11:30 - 11:45 “Public campaigns/events to raise environmental awareness in the Regional Unit of Drama” - Mrs. Katerina MANOUSI (ROOTS AMKE, GREECE)

11:45 - 12:00 “Evaluation of the bus-stops according to the distance from the water resources” - Mr. Ioannis TOSKAS (CEO of Transport Authority of Thessaloniki S.A., GREECE)

12:00 - 12:15 “Philippi Park - Protecting and strengthening the Cultural Landscape through Spatial Interventions” - Ms. Alkmini PAPAIOANNOU (Opsometha eis Filippous Scientific Team, GREECE)

12:15 - 12:30 “Ecosystem services and ecotourism enhancing actions in Drama’s riparian zones” - Mrs. Anastasia SAVVOPOULOU (IHU Researcher, GREECE)

12.30 - 12:45 “Innovative methods to assess and improve the Agia Varvara Park, Drama Greece” - Georgios GKIATAS (IHU Researcher, GREECE)

12:45 - 13:00 “From pollution to solution: Skimmer vessel a way to collect plastic waste. The Romanian pilot case study - PS4S-2023” - Dr. Alina CONSTANTIN (Researcher, BIWA, ROMANIA)

Group Photo (13:00 - 13:15)

Lunch Break (13:15 - 14:00)



Project funded by the
EUROPEAN UNION



Common borders
Common solutions

The 3rd Session “Remote Sensing and GIS Applications”

Chair: Paschalis KOUTALAKIS and Olga CRIVOVA

14:00 - 14:15 “Using vegetation indexes to determine erosion areas in the Debed river basin” - Narek HARUTYUNYAN (Project researcher/“Young Foresters Union” - UYF, ARMENIA)

14:15 - 14:30 “Streambank erosion index in GIS. Application in Aggitis Basin” - Mr. Georgios PAGONIS (IHU Researcher, GREECE)

14:30 - 14:45 “High resolution photogrammetric products by drones for post-disaster studies. Case study a storm-tornado in Greece” - Dr. Paschalis KOUTALAKIS (Researcher, International Hellenic University, GREECE)

14:45 - 15:00 “Calculation of hydrological characteristics of Debed river basin using SWAT hydrological model” - Mrs. Luiza GEVORGYAN (Project researcher/“Young Foresters Union” - UYF, ARMENIA)

15:00 - 15:15 “WEPP modeling of erosion and sediment in Moldova: the first application” - Dr. Roman COROBOV (Eco-TIRAS, MOLDOVA)

15:15 - 15:30 “Hydrologic and hydraulic assessment of the Kanara’s torrent in Proti Serron, Greece” - Mr. Andreas APOSTOLOPOULOS (MSc Student, International Hellenic University, GREECE)

Coffee Break (15:30 - 15:45)

The 4th Session “Soil Erosion and Water Degradation”

Chair: Georgios GKIATAS and Alina CONSTANTIN

15:30 - 15:45 “Terrestrial laser scanning and cross sections’ survey at erosion/deposition hot-spots” - Mr. Theodoros KLEPOUNSIOTIS (Student, International Hellenic University, GREECE)

15:45 - 16:00 “Evaluation of provisional areas by residents of small urban areas with the use of photo questionnaires” - Mr. Konstantinos KRIKOPOULOS (Student, International Hellenic University, GREECE)

16:00 - 16:15 “Research studies on surficial and stream bank erosion in Siriu Reservoir and Buzau River - Chirlesti and Paltineni areas” - Dr. Maria MARINESCU (Project local manager/BIWA, ROMANIA)

16:15 - 16:30 “Morphometric estimation models for the pine forest” - Mr. Athanasios FALLIAS (Student, International Hellenic University, GREECE)

16:30 - 16:45 “Evaluation of riparian areas in streams of the Gallikos River basin using optical protocols SVAP and QBR - Mrs. Nina GAVRIILIDOU (Student, International Hellenic University, GREECE)

16:45 - 17:00 “Effects of stream size and geomorphological location on riparian areas” - Mr. Kostas KALAITZIS (Fire Brigade, GREECE)

Questions & Answers (17:00 - 17:15)

17:15 - 17:30 Closing Remarks
