

WWW
2021



5th INTERNATIONAL CONFERENCE **Water resources and wetlands**

Programme
and
Book of Abstracts

8-12 September, 2021 Tulcea (Romania)



Editors: Petre Găstescu, Petre Bretcan

ET
Editura
Transversal

Scientific committee

Chair: Petre Gâtescu - Romanian Limnogeographical Association

Takashi Asaeda - Saitama University (Japan)

Grigore Baboianu - Ecological and Social Consultancy Center - ACCES21 Tulcea (Romania)

Dariusz Borowiak - University of Gdańsk (Poland)

Angela Boggero - CNR – Water Research Institute (Italy)

Viorel Chendes – National Institute of Hydrology and Water Management (Romania)

Monica Stefania Dumitrascu - Institute of Geography, Bucharest (Romania)

Daniel Dunea - Valahia University of Targoviste (Romania)

Friederike Gabel - University of Münster (Germany)

Marian Traian Gomoiu – member of Romanian Academy, National Institute of Marine Geology and Geo-Ecology (GeoEcoMar), Bucharest (Romania)

Ion Grigoraş – Danube Delta National Institute, Tulcea (Romania)

Thomas Hein - University of Natural Resources and Life Sciences, Vienna (Austria)

Michael Hupfer - Leibniz - Institut für Gewässerökologie und Binnenfischerei Forschungsverband Berlin e.V. (Germany)

Martin Kainz - Inter-University Center for Aquatic Ecosystem Research Wasser Cluster – Biological Station of Lunz (Austria)

Piotr Klimaszyk - President of Polish Limnological Society; Adam Mickiewicz University (Poland)

Denes Loczy - Institute of Geography, University of Pécs (Hungary)

Włodzimierz Marszelewski - Nicolaus Copernicus University in Toruń (Poland)

Ionuț Minea - „Al.I. Cuza” University of Iași (Romania)

Olimpia Negru – Ministry of Water and Forest (Romania)

Iulian Nichersu – Danube Delta National Institute, Tulcea (Romania)

Ioan Nistor – University of Ottawa (Canada)

Brigitte Nixdorf - Brandenburgische Technische Universität Cottbus (Germany)

Zeineddine Nouaceur – University of Rouen (France)

Nicolae Panin - member of Romanian Academy, Geonomie Department of Romanian Academy (Romania)

Cristiano Poletto – UTFPR (Brasil)

Żaneta Polkowska - Gdansk University of Technology (Poland)

Cristiana Rădulescu - Valahia University of Targoviste (Romania)

Michael Reid - University of New England (Australia)

Gheorghe Romanescu – „Al.I. Cuza” University of Iași (Romania)

Martin Rulik - Czech Limnological Society; Palacky University in Olomouc (Czech Republic)

Piotr Rzymiski - Poznan University of Medical Sciences (Poland)

Laurent Touchart – Université d'Orléans (France)

Thomas Schneider - Technische Universität München (Germany)

Mario Sommerhäuser - Vice-President of German Limnological Society (Germany)

Victor Sorocovschi – „Babeş-Bolyai” University of Cluj-Napoca (Romania)

Gheorghe Șerban – „Babeş-Bolyai” University of Cluj-Napoca (Romania)

Elena Tuchiu – Romanian Waters National Administration Attributions (Romania)

Marian Tudor - Danube Delta National Institute, Tulcea (Romania)

Wojciech Tylmann - University of Gdańsk (Poland)

Liliana Zaharia - Bucharest University (Romania)

Martina Zelenakova - Technical University of Kosice (Slovakia)

Programme and Book of Abstracts to the 5th International Conference Water resources and wetlands, Tulcea, Romania, 8-12 September 2021

Editors: Petre GÂȘTESCU and Petre BREȚCAN



The individual contributions in this publication and any liabilities arising from them remain the responsibility of the authors and does not necessarily represent the views of conference organizers. The accuracy of the translation is the author's responsibility.

Printed in Romania.

Published by Transversal Publishing House

ISSN: 2285-7923

<http://www.limnology.ro/wrw2020/programme.html>

Organizing committee

Petre Brețcan - Valahia University of Targoviste (Romania)

Marek Ruman, University of Silesia in Katowice (Poland)

Kamil Nowiński - University of Gdńsk (Poland)

Ștefan Bilașco - Romanian Academy, Cluj Subsidiary, Geography Section (Romania)

Dana Maria (Oprea) Constantin - University of Bucharest (Romania)

Andra Costache - Valahia University of Targoviste (Romania)

Gabriela Crețu - Danube Delta Biosphere Reserve Authority, Tulcea (Romania)

Horváth Csaba - "Babeș-Bolyai", University Cluj-Napoca (Romania)

Daniel Dunea - Valahia University of Targoviste (Romania)

Liliana Ene - Danube Delta National Institute, Tulcea (Romania)

Oana Ionuș - University of Craiova (Romania)

Liliana Ivancenco - Danube Delta Biosphere Reserve Authority, Tulcea (Romania)

Ionuș Minea - „Al.I. Cuza” University of Iași (Romania)

Veronica Moșman - Danube Delta National Institute, Tulcea (Romania)

Alin Mișu-Pintilie - "Al.I. Cuza" University of Iași (Romania)

Ionuț Popa - Art Publishing Group (Romania)

Cristian Stoleriu - „Al.I. Cuza” University of Iași (Romania)

Dan Tanislav - Valahia University of Targoviste (Romania)

Elena Toma – Hyperion University of Bucharest (Romania)

Gabriela Toroimac - University of Bucharest (Romania)

Razvan Voicu - National Institute of Hydrology and Water Management (Romania)

**WATER QUALITY IN IRON GATE / DJERDAP NATURAL PARKS. FIRST FINDINGS OF
“AEPS”, AN INTERREG – IPA CBC ROMANIA – SERBIA PROJECT.**

Francisc POPESCU¹, Nada STRBAC², Ioan LAZA¹, Milan Trumic², Bogdana VUJIC³, Maja TRUMIC², Carmen RADESCU⁴, Antonjievic VUKOSAV⁵, Adrian-Eugen CIOABLA¹

¹University Politehnica Timisoara, Romania, francisc.popescu@upt.ro

²University of Belgrade, Technical Faculty in Bor, Serbia, dekan@tfbor.bg.ac.rs

³University of Novi Sad, Technical Faculty “Mihajlo Pupin” Zrenjanin, Serbia, bogdaba.vujic@tfzr.rs

⁴Pro-Mehedinti Association, Romania, promehedinti@gmail.com

⁵Citizen Association Village - Movement for Rural Development, Serbia, villagebor@gmail.com

Abstract

The paper presents the objectives and expected results of a new started research project that involves two relevant education and research Balkan institutions, University Politehnica Timisoara and University of Belgrade, Technical Faculty in Bor. Thru the “AEPS” project, specific water quality analysis will be performed on Danube and its main tributaries in target area (Nera, Cerna, Berzasca, Porecka and Pek): COD, CBO₅, ammonia, nitrates, nitrites, phosphates, conductivity and for the first time in the area heavy metals contaminants will be analyzed (mercury, lead, nickel, zinc, copper, arsenic, cadmium, uranium). The paper presents first findings on surface water quality analysis, current status of project development and implemented activities, expected results and environmental issues in Iron Gate / Djerdap natural parks.

Keywords: Danube, heavy metal, water quality, cross-border pollution