

46th IAD Conference 2026

*“The socio-ecological future of the Danube:
integrating riverine and terrestrial systems for a sustainable Danube”*

70th years of IAD

Programme

Baja, Hungary, 10-13 August

Web: <https://iad2026.uni-nke.hu/>



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE

HUNGARY

PROGRAM FINANCED
FROM THE NRDI FUND

Detailed Programme

MONDAY | 10 AUGUST 2026

09:00–10:00 **Registration** *Main Entrance*

10:00–11:00 **Opening ceremony**

Ground Floor, Assembly Hall

Chair: Keve, Gábor

Cimer, Zsolt, Dean of the Faculty of Water Sciences, Ludovika University of Public Service

Cyffka, Bernd, President of IAD

Representative of the Hungarian Academy of Sciences

11:00–11:45 **Plenary lectures**

Ground Floor, Assembly Hall

Chair: Hein, Thomas

11:00–11:15 **Sandu, Cristina**, Vice President of IAD — IAD past, present and future

11:15–11:45 **Vörösmarty, Charles** Open lecture live stream

11:45–12:00 **Coffee break** *Ground Floor, Student's Club*

12:00–13:00 **Plenary lectures - Topic 1 • Anthropogenically induced changes**

Ground Floor, Assembly Hall

Chair: Cyffka, Bernd

Shared plenary lecture and discussion about the Insula Magna project – Comprehensive Water Management and Sustainable Development Program

Kováč, Vladimír — A bitter-sweet story of the Old Main Channel of the Danube (AQ-BIOS, s.r.o, Bratislava, Slovakia)

Zsuffa, István — Revitalisation of the main channel bed: the final step of ecological revitalisation of the Szigetköz area (Ludovika University of Public Service, Faculty of Water Sciences, Budapest, Hungary)

13:00–14:00 **Lunch break** *Mezzanine, Assembly Hall*

14:00–14:30 **Plenary lecture - Topic 2 • Monitoring of aquatic species and habitats**

Ground Floor, Assembly Hall

Chair: Zechmeister, Thomas

Abonyi, András — Plankton diversity responses to natural and anthropogenic impacts in large rivers and oxbow lakes and their effects on ecosystem functioning

PARALLEL SESSIONS • 14:30–15:30

TIME	TOPIC 1 • ANTHROPOGENICALLY INDUCED CHANGES <i>Ground Floor, Assembly Hall</i>	TOPIC 2 • MONITORING OF AQUATIC SPECIES AND HABITATS <i>Ground Floor, Section Room, No. 4</i>
	CHAIR Cvijanović, Dušanka	Zechmeister, Thomas
14:30–14:50	Pöpl, Ronald Modelling long-term riverscape evolution in the Danube Floodplain National Park (Austria) – Effects of internal and external perturbations	Teubner, Katrin False transparency: When clear water hides light limitation for submerged macrophytes
14:50–15:10	Nguyen, Vu Duc Thinh Hydrological connectivity mediates water quality and deep water anoxia in Tisza River oxbow lakes	Cvijanović, Dušanka Evaluating the Effects of Wetland Restoration Using Sentinel-2 Data and LSTM Models: A Case Study of Obedska Bara, Serbia
15:10–15:30	Borza, Péter Recent trends in Ponto-Caspian peracarid (Crustacea) invasions in the Danube River	Cristea, Robert-Casian Assessing reed carbon stocks to support restoration in the Danube Delta
15:30–16:00	Coffee break <i>Ground Floor, Student's Club</i>	

PARALLEL SESSIONS • 16:00–17:00

TIME	TOPIC 1 • ANTHROPOGENICALLY INDUCED CHANGES	TOPIC 2 • MONITORING OF AQUATIC SPECIES AND HABITATS
	<i>Ground Floor, Assembly Hall</i>	<i>Ground Floor, Section Room, No. 4</i>
CHAIR	Cvijanović, Dušanka	Sandu, Cristina
16:00–16:20	Hupalo, Olena The Kilia Delta of the Danube River as a key transit zone for migratory fish species	Trichkova, Teodora Monitoring of aquatic invasive alien species in Bulgaria in the frame of the Joint Danube Survey 5
16:20–16:40	Lazowski, Werner Restoration of Pannonian Lowland Rivers	Afanasyev, Sergey Establishing Reference Conditions for Benthic Invertebrate Fauna to Assess Ecological Status of Water Bodies in the Lower Danube
16:40–17:00	Vyshnevskiy, Viktor The Russia-Ukraine War as a Threat to the Ecological Conditions of the Lower Danube River	Egri, Ádám Direct Observation and Monitoring of Aquatic Ecosystems in the Danube region (DOME) with special emphasis on predicting the swarming of the Danube mayfly Ephoron virgo
17:00–18:00	Poster session 1 <i>Ground Floor, Assembly Hall</i>	
18:00–20:00	IAD Board meeting <i>Ground Floor, Section Room, No. 1</i>	
20:00	Dinner: Mezzanine, Assembly Hall	

TUESDAY | 11 AUGUST 2026

09:00–10:00 Plenary lectures - Topic 3 Protector areas and biodiversity conservation and 4 • Climate change impacts

Ground Floor, Assembly Hall

Chair: Hein, Thomas

09:00–09:30 **Erős, Tibor** — Conservation and restoration planning for freshwater biodiversity in the Danube basin within and beyond protected areas

09:30–10:00 **Cselószki, Tamás** — Nature based solutions for climate adaptation in the Tisza River Plain

PARALLEL SESSIONS • 10:00–11:00

TIME	TOPIC 2 • MONITORING OF AQUATIC SPECIES AND HABITATS <i>Ground Floor, Assembly Hall</i>	TOPIC 3 • PROTECTED AREAS AND BIODIVERSITY CONSERVATION <i>Ground Floor, Section Room, No. 4</i>
CHAIR	Teubner, Katrin	Lenhardt, Mirjana
10:00–10:20	Zechmeister, Thomas Fifty Years of Ecosystem Monitoring at the Biologische Station Neusiedler See	Feng, Kai Hydrological connectivity governs functional trait patterns and metacommunity assembly in Danube river–floodplain fish communities
10:20–10:40	Guti, Gábor From data gaps to monitoring: challenges and opportunities in monitoring the sterlet (<i>Acipenser ruthenus</i>) population	Yuryshynets, Volodymyr The Danube delta and the North-West Black Sea region as refugia of alien species of fishes and their parasites
10:40–11:00	Márton Attiláné Virág, Katinka Frequency-Domain Characterization of Water Quality Dynamics: A Signal-Theoretic Framework for Monitoring Network Design in Danube Basin Watercourses	Bürgés, József Lateral hydrological connectivity is the main driver of macroinvertebrate communities in a natural floodplain along the Danube River
11:00–11:30	Coffee break <i>Ground Floor, Student's Club</i>	

PARALLEL SESSIONS • 11:30–12:50

TIME	TOPIC 3 • PROTECTED AREAS AND BIODIVERSITY CONSERVATION <i>Ground Floor, Assembly Hall</i>	TOPIC 4 • CLIMATE CHANGE IMPACTS <i>Ground Floor, Section Room, No. 4</i>
CHAIR	Guti, Gábor	Pusch, Martin
11:30–11:50	Mészáros, Boglárka Effects of lateral hydrological connectivity on the relative abundance of water frogs (<i>Pelophylax</i> spp.) and common toads (<i>Bufo bufo</i>) using eDNA surveys	Nagavciuc, Viorica From tree rings to gauging stations: a 250-year perspective on Lower Danube streamflow variability and its large-scale drivers
11:50–12:10	Derhy, Ghoufrane Towards linking pelagic food web complexity and ecosystem functioning in the middle section of the Danube River	Pöppl, Ronald Flash Flood Monitoring in Vienna (Austria): Hydro-geomorphic effects and environmental change scenario modelling
12:10–12:30	Gu, Junyao eDNA-based microdiversity patterns driving pelagic ecosystem functioning in the middle section of the Danube River	Kozma, Zsolt Scenario Modelling of Future Water Balance in a Transboundary Basin: Potential and Limitations from the Tisa Pilot Basin within the Danube Water Balance Project
12:30–12:50	Tóth, Flórián Zooplankton diversity patterns driving resource use efficiency at the phytoplankton-zooplankton trophic interface in the middle Danube River	Vyshnevskiy, Viktor Impact of High Air Temperature on Seasonal Mortality in the Danube Countries
12:50–14:00	Lunch break <i>Mezzanine, Assembly Hall</i>	
14:00–14:30	Plenary lecture- Topic 5 • Integrated water management <i>Ground Floor, Assembly Hall</i> Chair: Pöppl, Ronald Honti, Márk — New Challenges of River and Landscape Management in the Middle Danube Basin	

PARALLEL SESSIONS • 14:30–16:10

TIME	TOPIC 5 • INTEGRATED WATER MANAGEMENT <i>Ground Floor, Assembly Hall</i>	MIXED TOPIC <i>Ground Floor, Section Room, No. 4</i>
CHAIR	Pöpl, Ronald	Trichkova, Teodora
14:30–14:50	Hein, Thomas Cumulative effects of restoration measures on the ecological conditions of the Upper Danube	Cheshmedzhiev, Svilen Dynamics and trends of the Dalmatian Pelican (<i>Pelecanus crispus</i>) breeding colonies in Bulgaria during 2016–2026
14:50–15:10	Ónodi, Gábor Hydrology-driven coupling of semi-aquatic and terrestrial ecosystem engineers in dynamic floodplain forests	Tamás, Enikő Anna
15:10–15:30	Vizi, Dávid Béla LAREDAR – Lakes and Reservoirs in the Danube River Basin	Istvánovics, Vera The significance of meroplanktonic life style for phytoplankton growth and the fate of fine suspended particulates in large rivers
15:30–15:50	Kardos, Máté Krisztián Directives to derive micropollutant emission factors for socially and economically heterogeneous areas	Hatvani, István Spatial Variability of $\delta^2\text{H}$, $\delta^{18}\text{O}$ and d-excess in Hungarian Groundwater: A 2020s Baseline for the National Atlas of Isotope Hydrology
15:50–16:10	Pusch, Martin The Danube Restoration Hub: a digital-twin decision-support environment for wetland reconstruction in the Danube Basin	
16:10–16:40	Coffee break <i>Ground Floor, Student's Club</i>	
16:40–17:30	Poster session 2 <i>Ground Floor, Assembly Hall</i>	
17:30–18:30	IAD General Assembly <i>Ground Floor, Assembly Hall</i>	
19:00	Conference Dinner • IAD 70th Anniversary <i>Off-site Venue</i> 	

POSTER SESSIONS | MONDAY 10 AUGUST & TUESDAY 11 AUGUST 2026

Poster Session 1: Monday, 17:00–18:00 | Poster Session 2: Tuesday, 16:40–17:30 *Ground Floor, Assembly Hall*

POSTERS RELATED TO TOPIC 1

Beshkova, Mihaela Changes in phytoplankton functional structure in Danube-associated Lake Srebarna: comparison of historical and recent periods

POSTERS RELATED TO TOPIC 2

Bujor, Marius Petrut Linking satellite-derived vegetation cover to microplastic accumulation patterns in Danube Delta sediments

Florea, Daniela Spatial Distribution of Potentially Toxic Elements in Surface Soils of the Moldova Nouă Mining Waste Dump, Romania

Nita, Darmina The SturNet Digital Mapping Tool for Environmental Monitoring and Sturgeon Conservation in the Danube–Black Sea Region

Petneházy, Adél Integration of time-series analysis, satellite data and machine learning in water balance assessment for the Kis-Balaton Water Protection System

Porea, Daniela Molecular approaches — from DNA barcoding to DNA metabarcoding for the study of aquatic species in the Danube Delta – a brief presentation of the project results

Horvat, Mirjana Estimating Chlorophyll a and Total Suspended Solids in the Danube River Using Sentinel-2 Imagery

POSTERS RELATED TO TOPIC 3

Csabai, Zoltán Aquatic beetles of the Hungarian Danube: A faunistic overview with special reference to the Szigetköz, Gemenc and Béda-Karapanca floodplains

Holostenco, Daniela A Giant on the Brink: Genetic Insights into the Future of the Beluga Sturgeon (*Huso huso*)

Ivanov, Dimiter Patterns of Floristic Change and Invasive Plant Expansion in the Srebarna Biosphere Reserve (Bulgaria)

Nita, Darmina Microhabitat-mediated functional homogenization of benthic macroinvertebrates under hydromorphological change

POSTERS RELATED TO TOPIC 4

Szijártó, Márk Numerical analysis of water infiltration through canals in semi-arid regions

WEDNESDAY | 12 AUGUST 2026

08:00

Excursion

Departure from Beszédes József Dormitory
More details in the [excursion programme](#)

THURSDAY | 13 AUGUST 2026

Networking Day *Ground Floor, Assembly Hall*



09:00–09:15

Setting the scene

09:15–11:30

Challenges of sustainable sediment management and its importance for ecosystem restoration in the DRB.

11:30–12:00

Coffee break *Ground Floor, Student's Club*

12:00–13:00

Climate change adaptation measures – the example of Living Labs. Interlayer project

13:00–14:00

Lunch break *Mezzanine, Assembly Hall*

14:00–15:30

The Source to Sea approach for restoring migratory fish communities in the DRB – BS region

15:30–16:00

Coffee break *Ground Floor, Student's Club*

16:00–17:30

Advancing sustainable development in the Danube – BS Region

17:30–18:00

Announcing the results of the IAD photo contest
Conference closure

The detailed programme for the Networking Day, scheduled for 13 August, will be published by the end of July.



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