



INTERNATIONAL ASSOCIATION FOR DANUBE RESEARCH (IAD)

40th Anniversary Conference

***The Danube and Black Sea Region:
Unique Environment and Human Well-Being
Under Conditions of Global Changes***

**17-20 June 2014
SOFIA, BULGARIA**

Agenda

**Sofia, Bulgaria
2014**

Monday, 16 June 2014

- 10:00 – 17:00 **Payment of conference fee** at the Accounting office of the Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences (IBER-BAS), 1 Tsar Osvoboditel Blvd., Sofia
- 13:00 – 17:00 **Registration** at the lobby of the Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences (IBER-BAS), 1 Tsar Osvoboditel Blvd., Sofia
- 14:00 **Meeting of IAD National representatives and Expert group leaders** at the Meeting room of the National Museum of Natural History, 1 Tsar Osvoboditel Blvd., Sofia

Tuesday, 17 June 2014

Conference venue: Conference Hall of the Bulgarian Academy of Sciences, 1, 15th November Str., Sofia

*The time of keynote lectures includes 30 min presentation and 10 min discussion.
The time of oral presentations includes 15 min presentation and 5 min discussion.*

08:00 – 09:00 **Registration and payment of conference fee**

09:00 – 09:30 **Opening**

THOMAS HEIN, IAD President
DIMITAR IVANOV, Scientific Secretary, BAS
SNEJANA GROZEVA, Scientific Secretary, IBER-BAS
ROUMEN KALCHEV, IAD Country Representative of Bulgaria

Topic 6: Water quality elements, ecological status, emerging pollutants, microbiology, ecotoxicology, biomonitoring and saprobic systems

Chairpersons: GEORG JANAUER, YORDAN UZUNOV

09:30 – 10:10 **Keynote lecture:** MARTIN DOKULIL – The ecological importance of river phytoplankton: Potamoplankton regained

10:10 – 10:30 MELITA MIHALJEVIĆ, FILIP STEVIĆ, DUBRAVKA ŠPOLJARIĆ, TANJA ŽUNA PFEIFFER – Application of morpho-functional classifications in the evaluation of phytoplankton changes in the Danube River

10:30 – 10:50 STEFAN PREINER, THOMAS HEIN – Modeling of aquatic primary production patterns in the Danube River floodplain Lobau

10:50 – 11:10 MARTIN DOKULIL – Phytoplankton of the Danube River: Composition and long-term dynamics

11:10 – 11:30 **Coffee break**

11:30 – 11:50 VESELA EVTIMOVA, LYUBOMIR KENDEROV, NADJA OGNJANOVA-RUMENOVA, ZDRAVKO HUBENOV, IVAN BOTEV, TEODORA TRICHKOVA – Ecological assessment based on benthic diatom and macroinvertebrate communities in the Bulgarian section of the Danube River

11:50 – 12:10 MILA IHTIMANSKA, EMILIA VARADINOVA, STEFAN KAZAKOV, RADOSTINA HRISTOVA, SVETLANA NAUMOVA, LUCHEZAR PEHLIVANOV – Preliminary results on the distribution of macrozoobenthos along the Bulgarian stretch of the Danube River with respect to loading of nutrients, heavy metals and arsenic

Topic 1: Biodiversity – freshwater, riparian and floodplain flora and fauna, conservation, soil diversity and protection

Chairpersons: GEORG JANAUER, YORDAN UZUNOV

12:10 – 12:30 BELA CSÁNYI, MILA IHTIMANSKA, MOMIR PAUNOVIĆ, JÁNOS PODANI, JÓZSEF SZEKERES – Proposed section typology of the Danube River based on macroinvertebrates collected by different sampling methods

12:30 – 14:00 **Lunch break**

Topic 2: Protection and rehabilitation of Danube sturgeons

Chairpersons: MIRJANA LENHARDT, LUCHEZAR PEHLIVANOV

14:00 – 14:40 **Keynote lecture:** CRISTINA SANDU – Sturgeon conservation in the Danube River Basin: the way forward

14:40 – 15:00 GÁBOR GUTI – Can anadromous sturgeon populations be restored in the Middle Danube River?

15:00 – 15:20 MIRJANA LENHARDT, MARIJA SMEDEREVAC-LALIĆ, VESNA DJIKANOVIĆ, GORČIN CVIJANOVIĆ, ZORAN GAČIĆ, IVAN JARIĆ – Past and current investigations of sturgeons in Serbia – analysis of critical gaps that should be resolved to achieve their successful conservation

15:20 – 15:40 **Coffee break**

Topic 1: Biodiversity – freshwater, riparian and floodplain flora and fauna, conservation, soil diversity and protection

Chairpersons: MIRJANA LENHARDT, LUCHEZAR PEHLIVANOV

15:40 – 16:00 DORU BĂNĂDUC, ANGELA CURTEAN-BĂNĂDUC – The influence of environmental variables on the structure and diversity of fish communities – A Carpathian river case study

Topic 6: Water quality elements, ecological status, emerging pollutants, microbiology

Chairpersons: MIRJANA LENHARDT, LUCHEZAR PEHLIVANOV

16:00 – 16:20 MILENA PAVLOVA, YAVOR RABADZHIEV – Effect of some environmental parameters on the composition of fish communities in the riparian zone of the Bulgarian Danube River section

16:20 – 16:40 KATARINA JOVIČIĆ, MIRJANA LENHARDT, ŽELJKA VIŠNJIĆ-JEFTIĆ, VESNA ĐIKANOVIĆ, STEFAN SKORIĆ, MARIJA SMEDEREVAC-LALIĆ, GORČIN CVIJANOVIĆ, MILICA JAĆIMOVIĆ, ZORAN GAČIĆ, IVAN JARIĆ, ALEKSANDAR HEGEDIŠ – Assessment of fish stocks and elemental pollution in the Danube, Sava and Kolubara Rivers on the territory of the city of Belgrade, Serbia

19:00 **Welcome dinner** (Dondukov Beer House, 14 Dondukov Blvd., Sofia)

Wednesday, 18 June 2014

Topic 8: Riparian landscapes, landuse, flood risk assessment, hydrological modelling and restoration

Chairpersons: ULRICH SCHWARZ, ROUMEN KALCHEV

- 09:00 – 09:20 MILAN LEHOTSKÝ, ANNA KIDOVÁ, JÁN NOVOTNÝ, PETER SKUBINČAN – Riparian zone land cover: Classification, changes and trends of development
- 09:20 – 09:40 MARIAN MIERLĂ, IULIAN NICHERSU, CRISTIAN TRIFANOV, IULIANA NICHERSU, EUGENIA MARIN, FLORENTINA SELA – Links between Selected Environmental Components and Flood Risk in the Danube Delta
- 09:40 – 10:00 THOMAS HEIN, ELISABETH BONDAR-KUNZE, ANDREA FUNK, GWENDAL PAGET, STEFAN PREINER, GABRIELE WEIGELHOFER, NINA WELTI – Carbon and nutrient dynamics in highly altered riverine landscapes of the Danube River: Importance of scaling
- 10:00 – 10:20 ANTONETA SEGHEDI, MARIAN TRAIAN GOMOIU, GHEORGHE OAIIE – The Danube River in 1837 – the Demidoff expedition

10:20 – 11:00 Coffee break

Topic 4: Climate change, habitat change, hydromorphology

Chairpersons: ULRICH SCHWARZ, ROUMEN KALCHEV

- 11:00 – 11:40 **Keynote lecture:** IVAN ZAVADSKY (Executive Secretary of ICPDR) – 20 Years of international water management: Transboundary cooperation in the Danube River Basin
- 11:40 – 12:00 DIETER RANK, STEFAN WYHLIDAL, KATHARINA SCHOTT, MARTIN JUNG, GERHARD HEISS, MARIAN TUDOR – A 50 years' isotope record of the Danube River water and its relevance for hydrological, climatological and environmental research
- 12:00 – 12:20 ULRICH SCHWARZ – An extended method for continuous hydromorphological assessment applied in the Joint Danube Survey 3, 2013
- 12:20 – 12:40 ANNA KIDOVÁ, MILAN LEHOTSKÝ, MILOŠ RUSNÁK – Assessing the evolution of a gravel-bed braided river using geospatial techniques

12:40 – 14:00 Lunch break

Topic 4: Climate change, habitat change, hydromorphology

Chairpersons: MARIAN-TRAIAN GOMOIU, VESELA EVTIMOVA

- 14:00 – 14:20 MILOŠ RUSNÁK, MILAN LEHOTSKÝ – Flood related changes in stream channel morphology and bank erosion risk identification
- 14:20 – 14:40 KINGA FARKAS-IVÁNYI, GÁBOR GUTI – The effect of hydromorphological changes on habitat composition of the Szigetköz floodplain

Topic 5: Invasive alien species – early warning, priority species and pathways, risk assessment and management

Chairpersons: MARIAN-TRAIAN GOMOIU, VESELA EVTIMOVA

14:40 – 15:20 **Keynote lecture:** TEODORA TRICHKOVA *et al.* – Invasive alien species – growing threat to environment and economy in the Danube River Basin. How to manage the risk?

15:20 – 15:40 TEODORA TRICHKOVA, MOMIR PAUNOVIĆ, MARIUS SKOLKA, LYUBOMIR KENDEROV, ZDRAVKO HUBENOV, VESELA EVTIMOVA, ALICE CARDECCIA, LUIS POPA, OANA POPA, JELENA TOMOVIĆ, KATARINA ZORIĆ, IVAN BOTEV – The Danube River as an invasive alien species corridor: The Lower Danube case study

15:40 – 16:00 HARALD KUTZENBERGER – IAS and infrastructure works – impacts, management and controlling

16:00 —16:20 **Coffee break**

16:20 —18:00 **Poster session**

Thursday, 19 June 2014

Topic 3: Ecosystem services, wetlands, sustainable use of biological resources

Chairpersons: MILAN LEHOTSKY, HRISTINA KALCHEVA

09:00 – 09:40 **Keynote lecture:** CHRISTIAN STEINER – Danube Working Community and its role in the EU Strategy for the Danube Region using the example of soil

09:40 – 10:00 ROUMEN KALCHEV, MARIA DINKA, MIHAELA BESHKOVA, HRISTINA KALCHEVA, ÁRPÁD BERCZIK, EDIT ÁGOSTON SZABÓ – Factors influencing the chemical characteristics and nutrient retention/ release potential of wetlands in the Middle (Hungarian) and Lower (Bulgarian) Danube River

10:00 – 10:20 STEFAN KAZAKOV, KÁROLY SCHÖLL, ROUMEN KALCHEV, LUCHEZAR PEHLIVANOV, ANITA KISS – Composition of zooplankton species diversity in Hungarian and Bulgarian sections of the Danube River

10:20 – 10:40 ERIKA SCHNEIDER – Aspects of wetland habitat restoration and monitoring in the Danube Delta: Water macrophytes as quality indicators in evaluation processes

10:40 – 11:00 **Coffee break**

Topic 9: Sustainable development and public participation in the Danube and Black Sea region

Chairpersons: HARALD KUTZENBERGER, TEODORA TRICHKOVA

11:00 – 11:20 GERTRUD HAIDVOGL – Historical change of Danube River fish communities and the interplay with fishery and habitat alteration – a case study for the Austrian river section

11:20 – 11:40 OANA IVAN – The “glorious” communist past and the “green” ecologic present: Anthropological perspectives over the Danube Delta fishing communities and their natural resource management

11:40 – 12:00 HARALD KUTZENBERGER – Environmental impact of wind power plants in Mühlviertel – first results and perspectives

12:00 – 14:00 **Lunch break**

14:00 – 14:40 **Keynote lecture:** GERTRUD HAIDVOGL, MARTIN SCHMID |– Environmental history of the Danube River: Approaching a unique environment from a long-term, socio-ecological perspective

14:40 – 15:00 MARTIN SCHMID – How the Danube became the environment we know today: On the transformation of a socio-natural site since 1500

15:00 – 15:20 STEFAN DORONDEL, STELU SERBAN – A moving island: Nature dynamics and state borders' conflict for nature in modern Southeast Europe

15:20 – 15:40 MARIA BARAMOVA – Environmental impact of the war: Ottoman-European conflict along the Danube River in the Early Modern Time

15:40 – 16:00 **Coffee break**

16:00 – 18:00 **Session of General Assembly**

Friday, 20 June 2014

09:00 – 19:30 **Field trip – visit of the Rila Monastery and Iskar Reservoir**

09:00 Departure from Alexander Nevski Square (behind the Cathedral)

11:00 Arrival at the Rila Monastery

11:00 – 12:30 Sightseeing of the complex.

12:30 Lunch

15:00 Departure to the Iskar Reservoir

16:30 – 18:30 Visit of Iskar Reservoir with coffee-break

18:30 Departure to Sofia

19:30 Arrival at the Alexander Nevski Square

POSTERS

Topic 1: Biodiversity – freshwater, riparian and floodplain flora and fauna, conservation, soil diversity and protection

P1.01: AFANASYEV S., O. LIETYTSKA, O. MARUSHEVSKA – River re-naturalisation in the Tisza River basin after forest cutting activities

P1.02: CIOBOIU O. – The Danube River, essential factor in the distribution of freshwater gastropods within the faunistic provinces of Romania

P1.03: CURTEAN-BĂNĂDUC A., H. OLOSUTEAN – Using species-area curves technique to estimate the optimum number of samples for benthic macroinvertebrates

P1.04: ENGLONER A., Á. SZAKÁLY, D. SZEGŐ, V. KRIZSIK – Genetic diversity of reed stands developed in different water bodies of the Danube River

P1.05: GOMOIU M.-T., I. CĂRĂUŞ, G. OAIE – Comparative analysis of the phytoplankton population in the Lower Danube River in 2009-2011

P1.06: GYOSHEVA B., T. ISHEVA, P. IVANOV, V. VULCHEV – A pilot study of the Natura 2000 habitat 3260 along the downstream stretches of five Danube tributaries from the Bulgarian sector

P1.07: LIASHENKO A., K. ZORINA-SAKHAROVA – Macroinvertebrates of the marine edge and fore-delta of Kyliya branch of the Danube River

P1.08: LIASHENKO A., K. ZORINA-SAKHAROVA – The Influence of the invertebrate drift on the communities of the Danube Delta Marine Edge

P1.09: OLOSUTEAN H., D. M. ILIE – Prewintering aquatic and semiaquatic true bugs in the Timiș River valley (Romania): Adaptation, diversity and the role of human impact

P1.10: POPOVIĆ D., M. DJAN, L. ŠAŠIĆ, D. ŠNJEGOTA, D. OBREHT, A. VUJIC – Usage of different molecular markers in delimitation of cryptic taxa in *Merodon avidus* species complex (Diptera: Syrphidae)

P1.11: POTYÓ I., G. GUTI – Diurnal changes in fish assemblages in the Danube River section upstream of Budapest and its tributaries

P1.12: RADU E. – Diversity of macrophyte communities in the Danube Delta lakes in 2013

P1.13: RAKIĆ M., A. URBAN, M. KARAMAN – Macrofungi on driftwood in the Danube River arms of the „Donau-Auen“ National Park, Austria

P1.14: STOIANOVA D., E. VARADINOVA, M. KERAKOVA, M. IHTIMANSKA, N. SIMOV, T. STEFANOV, V. TYUFEKCHIEVA, Y. VIDINOVA – Occurrence of the benthic water bug *Aphelocheirus aestivalis* (Heteroptera: Aphelocheiridae) in the Lower Danube River (Bulgaria) and its tributaries

P1.15: TARJÁNYI N., Á. BERCZIK – Spatial distribution of phytophilous macroinvertebrates in a side arm of the Middle Danube River

P1.16: VELIČKOVIĆ N., M. DJAN, E. FERREIRA, D. OBREHT, N. K. TUBIC, C. FONSECA – Does wild boar act as a pest species in Gornje Podunavlje Protected area – conclusions from genetic data?

P1.17: WEIPERTH A. – Analysis of structure, composition, spatial and temporal changes of juvenile fish community in a Danube-tributary system in the Middle Danube River Basin

P1.18: WEIPERTH A., I. POTYÓ, M. PUKY – Diet composition of the dice snake (*Natrix tessellata* Laurenti, 1768) (Reptilia: Colubridae) in the Danube River Catchment Area

Topic 3: Ecosystem services, wetlands, sustainable use of biological resources

P3.01: IGIĆ R., M. KRSTIVOJEVIĆ, D. IGIĆ, D. VILOTIĆ, M. NIKOLIĆ-ŠIJAČIĆ, D. STANKOVIĆ – The diversity of forest communities in the Kovilj Marsh (Serbia)

P3.02: KALCHEVA H., R. KALCHEV, M. BESHKOVA – Bacterioplankton of wetlands along the Lower Danube River (Bulgaria) and its relation to environmental factors

P3.03: PEHLIVANOV L., R. FIKOVA, N. IVANOVA, R. KALCHEV, S. KAZAKOV, M. PAVLOVA, S. DONCHEVA – Analysis of ecosystem services of wetlands along the Bulgarian Section of the Danube River

Topic 4: Climate change, habitat change, hydromorphology

P4.01: KISS A., E. ÁGOSTON-SZABÓ, M. DINKA, K. SCHÖLL, Á. BERCZIK – Microcrustacean (Cladocera, Copepoda, Ostracoda) diversity in three side arms in the Gemenc Floodplain (Danube River, Hungary) in different hydrological situations

P4.02: WYHLIDAL S., D. RANK, K. SCHOTT, E. HASLINGER, O. PLANK – Short term isotopic signals in the Danube River water at Tulln (river km 1963) in 2012

P4.03: ZORINA-SAKHAROVA K., A. LIASHENKO, I. MARCHENKO – Effects of salinity on the zooplankton communities in the fore-delta of Kyliya Branch of the Danube River

Topic 5: Invasive alien species – early warning, priority species and pathways, risk assessment and management

P5.01: LIASHENKO A., K. ZORINA-SAKHAROVA, Y. SANZHAK, V. MAKOVSKIY – Neozoa of the Kyliya Branch of the Danube Delta

P5.02: PUKY M. – Invasive crayfish on land: *Orconectes limosus* (Rafinesque, 1817) (Decapoda: Cambaridae) crossed a terrestrial barrier to move from a side arm into the Danube River at Szeremle, Hungary

P5.03: TRICHKOVA T, R. LAUCERI, I. BOTEV, L. KENDEROV, Z. HUBENOV, V. EVTIMOVA, A. KOTSEV, I. GUARNERI, S. CALVARUSO, N. RICCARDI – Alien bivalve mollusk occurrence, population dynamics and impact: Lake Maggiore (Italy) and the Danube River (Bulgaria) case studies

P5.04: TUBIĆ N. K., M. DJAN, N. VELIČKOVIĆ, G. ANAČKOV, D. OBREHT – High genetic potential of invasive *Ambrosia artemisiifolia* L. populations in the Middle Danube River Basin

P5.05: VUKOV D., M. KRSTIVOJEVIĆ, M. ILIĆ, M. RUĆANDO, R. IGIĆ – *Cabomba caroliniana* A. Gray in the Canal Network in Serbia – influence on the plant species diversity and structure of aquatic vegetation

Topic 6: Water quality elements, ecological status, emerging pollutants, microbiology

P6.01: ÁGOSTON-SZABÓ E., K. SCHÖLL, A. KISS, Á. BERCZIK, M. DINKA – Decomposition of willow leaf litter in an oxbow lake of the Danube River at Gemenc, Hungary

P6.02: DONABAUM U., M. T. DOKULIL – Phytoplankton biomass and community structure along the River Danube

P6.03: KAZAKOV S., M. KERAKOVA, M. IHTIMANSKA – Ecological status of shallow lakes in the Bulgarian Danube River floodplain according to the ECOFRAME approach: Testing a system for integrated ecological quality assessment

P6.04: LIASHENKO V. – Assessment of water quality in the Ukrainian Part of the Danube Delta based on biotesting and bioindication of bottom sediments

P6.05: STOYANOVA T., I. TRAYKOV – Assessment of the ecological status of the Ogosta River, Northwestern Bulgaria, based on macrozoobenthos and general physical and chemical quality elements

P6.06: ŽIVKOVIĆ M., S. RADULOVIĆ, D. CVIJANOVIĆ, M. NOVKOVIĆ, A. ANĐELKOVIĆ, I. TEODOROVIĆ, P. BOON – The SERCON (System for Evaluating Rivers for Conservation) assessment of the Tamiš River

Topic 9: Sustainable development and public participation in the Danube and Black Sea region

P9.01: MARIN E., F. SELA, I. NICHERSU, M. MIERLĂ, C. TRIFANOV – Relations between local communities and sustainable management policies in the Danube Delta

P9.02: WINIWARTER V., G. HAIDVOGL – *Danube: Future* – A sustainable future for the Danube River Basin as a challenge for the interdisciplinary humanities