

INTRODUCTORY LECTURES

50 Jahre IAD – Rückblick und Perspektiven

T. Tittizer

IAD's 50th Anniversary in 2006: Re-defining the scientific profile

I. Teodorović, J. Bloesch

**Comparative assessment of potamoplankton and primary productivity
in the Danube River**

M.T. Dokulil

**Research activities of Verbund in point of view to the Water Framework
Directive of European Union**

H.A. Steiner

**The ecological status of the Danube River with special reference to its
fish fauna**

F. Schiemer

SESSION 1: MANAGEMENT OF A LARGE RIVER IN A CHANGING ENVIRONMENT

**15 years of UNDP/GEF interventions in the Danube River Basin:
The Conclusion**

P. Whalley

**Institute for the Danube Region and Central Europe (IDM)(Institut
für den Donauraum und Mitteleuropa)**

S. Milford

Hydroecological problems of the Ukrainian part of the Danube River basin

V.D. Romanenko, V.I. Yuryshynets

The water quality of Prut River, an important - Danube tributary

S. Stirbu

**A comprehensive concept for an eco- hydrological assessment of large
scale restoration programmes of floodplain rivers**

M. Schabuss, F. Schiemer, H. Habersack, M. Liedermann

**Correcting the mistakes from the past – remediation of riparian areas on
the Danube floodplain between Neuburg and Ingolstadt (Bavaria/Germany)**

B. Cyffka

Hydro-Ecology and River Habitats Project at the Mosoni-Danube

M. Pannohalmi

The River Mures ecosystem - scientific background information as the basis for a catchment approach

C. Sandu, J. Bloesch

Managing the New Danube in Vienna (Austria): the importance of plant nutrients and aquatic macrophytes

G. Wolfram, N. Kreuzinger, A. Farnleitner, U. Wychera, U.H. Humpesch

Does the fully automated groundwater management system lastingly influence the water quality in the 2nd and 20th district?

S. Schuster, W. Picher

Water enhancement scheme Lobau - a backwater system in Vienna (Austria)

H. Zornig, G. Weigelhofer, V. Kucera-Hirzinger, T. Hein, F. Schiemer

Nutrient Balance of two protected areas in the Prut River Basin

D. Drumea, J. Bloesch

SESSION 2: THE ROLE OF MACROPHYTES IN LARGE RIVERS

Macrophyte Habitat Profiles, River Restoration, and the WFD: making use of the MIDCC data base

G.A. Janauer, P. Filzmoser, H. Otahelova, A. Gaberscik, J. Topic, A. Berczik, R. Igic, V. Vulchev, A. Sarbu, A. Kohler, N. Exler

Inventory of water vegetation of the Danube river branches

A. Sărba, G. Janauer, N. Exler, P. Filzmoser

Quality of aquatic environment and macrophytes in Slovenian watercourses

U. Kuhar, N. Kržič, M. Germ, O. Urbanc-Berčič, A. Gaberščik

Macrophytes as phytoindicators and potential phytoremediators in aquatic ecosystems

M. Borisev, S. Pajevic, Z. Stankovic, B. Krstic

Habitat and Plant Species Diversity along the Danube River in Serbia

D. Vukov, R. Igić, P. Boža, G. Anačkov, G.A. Janauer

The Links between the Semi-Aquatic Vegetation and the Main Habitat Characteristics of the Ponjavica River (Serbia and Montenegro)

S. Radulovic, M. Vuckovic, M. Jovanovic, B. Panjkovic, V. Santrac

The aquatic vegetation of the Upper Danube river

W. Schütz, U. Veit, A. Kohler

SESSION 3: CHALLENGES IN FISH ECOLOGY IN LARGE RIVERS

Past and current status of sturgeon in the Serbian part of the Danube River

M. Lenhardt, I. Jaric, D. Bojovic, G. Cvijanovic, Z. Gacic

Past and present status of sturgeons in Hungary

G. Guti

Present state of Sturgeon stocks in the lower Danube river, Romania. A review

M. Paraschiv, R. Suciu

The ultimate need for implementation of sturgeon protection in the Danube River Basin - a view of 2006 and call for actions with the Sturgeon Action Plan under the Bern Convention

J. Bloesch

The invasive *Neogobius* fishes (Perciformes, Gobiidae) – how are the incomers doing outside their country of origin?

M. Polačik, M. Janáč, M. Vassilev, T. Trichkova, P. Jurajda, Z. Valová

Fish ecological investigation of anthropogenic shore line structures in the impoundment of the run-of-river power station at the Danube in the heart of Vienna

M. Straif, H. Waibacher

Seasonal Migration patterns of Nase and Barbel in the Danube and its Tributaries

C. Frangez, G. Unfer, S. Schmutz, M. Jungwirth

SESSION 4: THE ROLE OF ALGAE IN LARGE RIVERS

Phytoplankton of lower stretch of Sava river through Serbia & Montenegro

S. Cadjo, A. Miletic, T. Dopudja-Glisic, L. Denic

Impact of hydrological connectivity on primary production patterns of large river floodplains

S. Preiner, I. Baart, A.P. Blaschke, E. Bondar, C. Habereder, T. Hein

Phytoplankton communities in the Danube-Tisza-Danube canal Banatska Palanka – Novi Becej (S & M)

K. Nemes, M. Matavuly, D. Radnovic

SESSION 5: INVERTEBRATES: KEY RIVERINE COMMUNITY AND BIOINDICATORS

Typology of the Danube River based on top-down and bottom-up approaches

O. Moog, M. Sommerhäuser, S. Robert, T. Battisti, S. Birk, D. Hering,
T. Ofenböck, U. Schmedtje, B. Vogel

Distribution and structure of Trichoptera assemblages in the ecoregion

Hungarian lowland in Slovenia

G. Urbanič

Evaluation of predicting models of larval chironomid assemblages from environmental gradients in a large river

C. Fesl, U.H. Humpesch

Aquatic macroinvertebrates of the Veliki Rzav catchments area (Serbia, the Danube Basin) – the preliminary results

B. Stojanovic, M. Paunovic, V. Simic, P. Cakic, A. Petrovic, D. Jakovcev-Todorovic, A. Djukovic

Section types in the Hungarian reach of the River Danube according to the macroinvertebrate communities

J. Nosek, N. Oertel

Development of the zooplankton community in the Srebarna Lake (North-Eastern Bulgaria) along the process of ecosystem rehabilitation

L. Pehlivanov, V. Tsavkova, V. Vasilev

Trematode fauna in species *Rana* kl. *esculenta* (Linnè, 1758) from Petrovaradinski Rit Marsh

O. Bjelić-Čabriło, E. Popović

SESSION 6: MISCELLANEOUS

Changes of habitat types through several decades in the Danube region in Serbia - The case of Veliko ratno ostrvo island near Belgrade

J. Šinžar-Sekulić, A. Komarnicki, V. Stevanović

Hydromorphological inventory and map of the Drava and Mura rivers (IAD pilot study)

U. Schwarz

Long-term changes in the clutch number of a *Rana dalmatina* population at the Danubian floodplain at Göd, north of Budapest, Hungary

M. Puky, J. Nosek, B. Tóth

New method for efficient determination of high flood risk areas

G. Möslinger

SESSION 7: MICROBIAL COMMUNITIES IN LARGE RIVERS

Longitudinal Changes in the Bacterial Community of the Danube: A Whole River Approach

A.H. Farnleitner, C. Winter, T. Hein, R.L.M. Mach

Hydrobiological differences in the Danubian water system with periodically connections with the Danube (Gemenc floodplain, Danube-Drava National Park -Hungary)

Á. Berczik, M. Dinka, K. Schöll, A. Kiss, E. Ágoston-Szabó, A. Schmidt, G. Fehér

Rivers, lakes and riverine lakes: the signature of microbial community turnover

K. Teubner, B. Nixdorf

Testing the applicability of DNA based microbial faecal source tracking methods on a large scale in the River Danube and its important tributaries

G. H. Reischer, R. L. Mach, D. C. Kasper, C. Winter, G. G. Kavka,
A. H. Farnleitner

Microbiological water quality of the River Danube (km 2581 - km 15): Longitudinal variation of microbial pollution as determined by standard parameters

G. Kavka, G.D. Kasimir, A.H. Farnleitner

SESSION 8: WATER QUALITY ASPECTS: NUTRIENTS AND TOXIC SUBSTANCES

Scenarios for future development of nutrient emissions and river loads in the Danube Basin

M. Zessner, H. Behrendt, A. Constantinescu, J. van Gils

Long-term and seasonal variations of nutrients in the Lower Danube: Bulgarian-Romanian stretch

R. Kalchev, C. Sandu, D. Ionica, I. Botev

Isotope tracing of hydrological processes in large river basins: Danube study

W. Papesch, D. Rank

Cytogenetic methods in biomonitoring of surface waters

V.D. Romanenko, Yu.O. Stoyka

Phosphorus dynamics and biological activity indicating the impact of an artificial water enhancement scheme on an urban floodplain area

E. Bondar, V. Kucera-Hirzinger, S. Preiner, G. Weigelhofer, F. Schiemer,
T. Hein

Macrophytic nutrient and heavy metal accumulation ability as a parameter of pollutant remediation in aquatic ecosystems

S. Pajević, M. Matavulj, M. Borišev, P. Ilić, B. Krstić

Effects of two heavy metals on photosynthesis and respiration processes in *Ceratophyllum sp.*

M. Fleancu

The content of heavy metals in tissue of *Ceratophyllum demersum L.* from Danube-Tisza-Danube canal in Banat region of Vojvodina (Serbia and Montenegro)

P. Ilić, S. Pajević, S. Tepić