



International
Water Association

The 11th International Specialised Conference on Watershed & River Basin Management
4 – 5 September 2008, Budapest, Hungary

FINAL CONFERENCE PROGRAM

| Wednesday 3rd Sep 2008 | |
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| 14:00- | MANAGEMENT COMMITTEE MEETING of the IWA Specialist Group on Watershed and River Basin Management Venue: Hunguest Hotel Griff Budapest, Room Zafir H-1113 Budapest, Bartók Béla út 152. |
| 18:00-19:00 | Registration Hunguest Hotel Griff Budapest H-1113 Budapest, Bartók Béla út 152. |
| 19:00-21:00 | Opening reception – All participants are invited Hunguest Hotel Griff Budapest Welcome by László Kóthay, State Secretary for Water, Ministry of Environment and Water, Hungary |
| Thursday 4th Sep 2008 | |
| 07.30 | Registration opens Hunguest Hotel Griff Budapest |
| 08.30-9.30 Chair: János Fehér | WELCOME AND CONFERENCE OPENING Hunguest Hotel Griff Budapest, Room Smaragd Welcome by János Fehér , Chair of the Conference Organising Committee Vice-Chair of the IWA Specialist Group on Watershed & River Basin Management Opening by Perri Standish-Lee , Chair of the IWA Specialist Group on Watershed & River Basin Management Keynote presentations (by invitation): Gyula Holló: Transboundary cooperation in river basin management: The Danube experience. Prof. György Várallyay: The significance of soil in watershed management. |

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| 9.30–11.00 | Session (1): Water Resource Management I - Room Smaragd |
| Chair: Perri Standish- Lee | <p>From a scientific to a management tool – the use of MONERIS 2.0 for the decision support in the Danube River Basin District (DRBD) <i>Authors: H. Behrendt, M. Venohr, M. Popovici and P. Weller (Germany)</i></p> <p>Analytical quality control in the Danube River Basin – the 15 years of the QUALCODanube proficiency testing scheme <i>Authors: C. Bélavári, P. Biliczki-Gaál, P. Literáthy, F. László and J. Schneider (Hungary)</i></p> <p>Joint Danube Surveys: Petroleum-Related and Heavy Metal Pollution Along the Danube <i>Authors: P. Literáthy (Hungary)</i></p> <p>National SIMCAT: A WFD water quality modelling tool for national scale river water quality planning <i>Authors: H.Green, A. Nowosielski, S. Kelly and B. Crabtree (UK)</i></p> <p>General Discussion</p> |
| 11.00-11.30 | Coffee/Tea and Poster Viewing |
| 11.30-13.00 | Session (2): Water Resource Management II - Room Smaragd |
| Chair: János Fehér | <p>Evaluation of non-point source pollution impacts by multimedia modelling <i>Authors: Y. T. Fu, C. M. Kao, Y. C. Lai and C. E. Lin (Taiwan)</i></p> <p>Risk analysis of the flood control system in the Hungarian Tisza basin <i>Author: L. Koncsos (Hungary)</i></p> <p>The combined approach – a challenge for border crossing water quality issues in Austria. <i>Author: M. Zessner (Austria)</i></p> <p>“The fecal has hit the fan: Overview of efforts in the U.S. to address bacterial contamination in surface waters” <i>Authors: A. Vicory and J. Heath (USA)</i></p> <p>General Discussion</p> |
| 13.00-14.00 | Lunch and Poster Viewing |
| 14.00-15.30 | Session (3): Socio-economy and Water Resource Management I - Room Smaragd |
| Chair: Kirsty Blackstock | <p>Economic analysis in the process of the preparation of river basin management plans in Slovenia: The Drava River Basin Pilot Study <i>Authors: J. Dodic and A. Bizjak (Slovenia)</i></p> <p>Who has to pay for measures in the field of water management - a proposal for applying the polluter pays principle <i>Authors: T. Grünebaum, H. Schweder and M. Weyand (Germany)</i></p> <p>How to deal with cost-efficiency aspects at the set-up of programmes of measure? <i>Authors: M. Weyand, T. Grünebaum, H. Schweder and C. Huber (Germany)</i></p> <p>Wetlands protection and restoration – a river basin perspective. <i>Author: T. Okruszko (Poland)</i></p> <p>General Discussion</p> |

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| 14.00-15.30 | Parallel Session (4): Climate Change - Room Zafir |
| Chair: Renaat De Sutter | <p>Climate change impact on water balance of Lake Balaton <i>Author: B. Nováky (Hungary)</i></p> <p>Impacts of the climate change on runoff and diffuse phosphorus load to Lake Balaton (Hungary) <i>Authors: Á. Kovács and A. Clement (Hungary)</i></p> <p>Stochastic water balance simulation for Lake Balaton (Hungary) under climatic pressure <i>Authors: M. Honti and L. Somlyódy (Hungary)</i></p> <p>Catchment flood risk assessment, management and decision support in Ireland: A practical application <i>Authors: J. Martin, M. C. Dewar, M. Adamson and R. A. Crowder (Ireland)</i></p> <p>General Discussion</p> |
| 15.30-16.00 | Coffee/Tea and Poster Viewing |
| 16.00-17.30 | Session (5): Socio-economy and Water Resource Management II - Room Smaragd |
| Chair: Wendell Koning | <p>Building 'learning catchments' for integrated catchment management: designing learning systems based on experiences in the UK and South Africa. <i>Authors: K. Collins, J. Colvin and R. Ison (UK)</i></p> <p>Between a rock and a hard place: incompatible objectives at the heart of river basin planning? <i>Author: K. L. Blackstock (UK)</i></p> <p>A matrix-based tool to support a legal and institutional assessment in an IWRM framework <i>Authors: J. Leten, J-L Frerotte and M. Bila (The Netherlands, Chad)</i></p> <p>Developing Risk Modeling Tools for the Lake Tahoe Water Utilities <i>Author: Perri Standish-Lee (USA)</i></p> <p>General Discussion</p> |
| 16.00-17.30 | Parallel Session (6): Climate Change and Water Supply - Room Zafir |
| Chair: Michael Weyand | <p>Development of a management tool for the equal evaluation of economic, social and ecological effects of adaptation scenarios for attenuating the effects of climate change induced flooding <i>Authors: L. De Smet and R. De Sutter (Belgium)</i></p> <p>Impact of an extreme dry and hot summer on water supply security in an alpine region <i>Authors: D. Vanham, E. Fleischhacker and W. Rauch (Austria)</i></p> <p>Risk based climate change impact assessment for the water industry <i>Authors: O.M. Thorne and R.A. Fenner (UK)</i></p> <p>Sustainable river basin management under the European Water Framework Directive: an effective protection of drinking-water resources <i>Authors: S. Wuijts and H.F.M.W. van Rijswijk (The Netherlands)</i></p> <p>General Discussion</p> |

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| <p>Thursday 4th Sep 2008</p> <p>19.00-22.30</p> | <p>CONFERENCE DINNER Venue: HUNGARIAN ACADEMY OF SCIENCES H-1051 Budapest, Roosevelt tér 9., Hungary Bus transfer provided from Hotel Griff at 18:30pm</p> <p>Prof. Tamás Németh, Secretary-General of the Hungarian Academy of Sciences (HAS): Welcome and introduction of the role of HAS in the field of water sciences.</p> <p>Key note presentation (by invitation): Alan Vicory: Trends and Developments in the U. S. Influencing River Basin Management.</p> |
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| <p>Friday 5th Sep 2008</p> | |
| 09.00-10.30 | Session (7): Water Resource Management III - Room Smaragd |
| <p>Chair: Matthias Zessner</p> | <p>Significant water management issues: techniques, methods and results gained in the Danube River Basin District, Slovenia <i>Authors: T. Razpotnik, P. Repnik, M. Peterlin, A. Bizjak (Slovenia)</i></p> <p>Assessing ecosystems services in relation to water and land management in the Hungarian and Romanian Tisza River Basin <i>Authors: E. L. Minca, K. Petz, S. Werners and R. Leemans (The Netherlands)</i></p> <p>Fair and sustainable irrigation water management in the Babai basin, Nepal <i>Authors: B. Adhikari, R. Verhoeven and P. Troch (Belgium)</i></p> <p>Water Framework Directive catchment planning – a case Study apportioning loads and assessing environmental benefits of programme of measures <i>Authors: B. Crabtree, S. Kelly, H Green, G. Squibbs and G. Mitchell (UK)</i></p> <p>General Discussion</p> |
| 09.00-10.30 | Parallel Session (8): Monitoring and Modelling I - Room Zafir |
| <p>Chair: Jovanka Ignjatovic</p> | <p>A parameter identifiability and estimation study in Yesilirmak River <i>Authors: R. Berber, M. Yuceer and E. Karadurmus (Turkey)</i></p> <p>Sink or source? - The effect of hydrology on phosphorus release in the cultivated riverine wetland Spreewald (Germany) <i>Authors: O. Gabriel, D. Balla, T. Kalettka and S. Maassen (Austria/Germany)</i></p> <p>Application of Water Framework Directive in Hungary: Development of biological classification systems <i>Authors: F. Szilágyi, É. Ács, G. Borics, B. Halasi-Kovács, P. Juhász, B. Kiss, T. Kovács, Z. Müller, G. Lakatos, J. Padisák, P. Pomogyi, C. Stenger-Kovács, K. É. Szabó, E. Szalma and B. Tóthmérész (Hungary)</i></p> <p>Grid size effects on a distributed water quantity-quality model in a hilly watershed <i>Authors: B. R. Shivakoti, S. Fujii, S. Kitpati Boontanon, H. Ihara, M. Moriya and S. Tanaka (Japan)</i></p> <p>General Discussion</p> |
| 10.30-11.00 | Coffee/Tea and Poster Viewing |

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| 11.00-12.30 | Session (9): Water Resource Management IV - Room Smaragd |
| Chair: Alan Vicory | <p>Ranking methods to set restoration and remediation priorities on a watershed scale. <i>Author: W. T. Stringfellow (USA)</i></p> <p>Planning and Implementation of a Public Participation Process Towards the development of the Anthemountas river basin water management plan <i>Authors: E. Pavlidou, S. Famellos, M. Makraki and A. Deliyannis (Greece)</i></p> <p>Determining Environmental Flows for the South Saskatchewan River Basin, Alberta, Canada <i>Authors: C. W. Koning, A.G.H. Locke, and J.M. Mahoney (Canada)</i></p> <p>General Discussion</p> |
| 11.00-12.30 | Parallel Session (10): Pollution Sources and Controls I -Room Zafir |
| Chair: Lifeng Li | <p>Diffuse and concentrated pollution control at watershed-scale: an Italian case study <i>Authors: A. Candela, G. Freni, G. Mannina and G. Viviani (Italy)</i></p> <p>Determination of the extent and source of sediment delivery to Hewenden reservoir, West Yorkshire, UK <i>Authors: P. Kay, R. Whelan, H. Barron and R. Grayson (UK)</i></p> <p>The development of an ecological approach to manage the pollution risk from highway runoff <i>Authors: B. Crabtree, P. Dempsey, I Johnson and M. Whitehead (UK)</i></p> <p>Phosphorus retention patterns along the Tisza River, Hungary <i>Authors: Á. Kovács, Zs. Kozma, V. Istvánovics and M. Honti (Hungary)</i></p> <p>General Discussion</p> |
| 12.30-13.30 | Lunch and Poster Viewing |
| 13.30-15.00 | Session (11): Monitoring and Modelling II - Room Smaragd |
| Chair: Péter Literáthy | <p>Development of aquatic exposure assessment model in Japan <i>Authors: Ishikawa, Y., Higashino, H., Kawaguchi, T. Tsukano, Y. and Tokai, A (Japan)</i></p> <p>Quantification of bentazone losses from point and non-point sources into the river Main (Germany) by combined modelling tools <i>Authors: M. Bach, S. Reichenberger, M. Letzel, U. Kaul, S. Forstner, G. Metzner, J. Klasmeier and H. G. Frede (Germany)</i></p> <p>Challenges in Geographic Information System and Erosion Model Application in Watershed Management: The Bohol Watershed, Philippines <i>Authors: H. J. Bavor and I. C. Genson (Australia)</i></p> <p>Modelling Hydrological Effects of Wetland Restoration: A differentiated view <i>Authors: J. Staes, M.H. Rubarenzya, P. Meire and P. Willems (Belgium)</i></p> <p>General Discussion</p> |
| 15.00-15.30 | Coffee/Tea and Poster Viewing |

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| 15.30-17.00 | Session (12): Pollution Sources and Controls II - Room Smaragd |
| Chair: Bob Crabtree | <p>Priority assessment of heavily polluted areas in Serbian riversheds; a practical approach <i>Authors: R. Dijcker, M. van der Wijk, B. Blem, J. Ignjatovic, A. Popovic, R. Zanetti (The Netherlands, Denmark, Serbia)</i></p> <p>Net flux of pollutants at a reduced spatial scale - an index of catchment vulnerability <i>Authors: P. T. Yillia and N. Kreuzinger (Sierra Leone, Austria)</i></p> <p>The use of GIS and multi-criteria evaluation (MCE) to identify agricultural land management practices which cause surface water pollution in drinking water supply catchments <i>Authors: R. Grayson, P. Kay and M. Foulger (UK)</i></p> <p>The efficacy of contemporary agricultural stewardship measures for ameliorating water pollution problems of key concern to the UK water industry <i>Authors: P. Kay, A. C. Edwards and M. Foulger(UK)</i></p> <p>General Discussion</p> |
| 17.00-17.30 | CONFERENCE CLOSURE - Room Smaragd |

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| Poster Session | |
| Water Resource Management and Climate Change | |
| | <p>Sustainable river basin management: case study for the Morava river ecoregion in Serbia. <i>Authors: N. Veljković and D. Lekić (Serbia)</i></p> <p>The integration of microbial source tracking into catchment management <i>Authors: A. M. Saunders, P. L. Wejse, T.L. Skovhus, T.R. Damgaard, M. L. Agerbæk, L. Bagge and J. Lorenzen (Denmark)</i></p> <p>Long-term capacity and failure analysis of the Ruhr Reservoir System in Germany. <i>Authors: G. Morgenschweis and D. Schwanenberg (Germany, The Netherlands)</i></p> <p>Approaches, methods and experiences of stakeholders' information and consultation in the preparation of River Basin Management Plans <i>Authors: L. Marovt and A. Bizjak (Slovenia)</i></p> <p>River basin management practices in Iran: A case study of Zanjan River Restoration Project. <i>Authors: A. H. P. Zanganeh and H. Jalalian (Iran)</i></p> <p>Integrated water resource management for Kaoping River Basin <i>Author: Y. C. Lai, C. M. Kao, C. E. Lin, Y. T. Fu and B. M. Yang (Taiwan)</i></p> <p>Assessment of environmental indicators in the management of Brasília's urban drainage basins <i>Authors: R. T. Minoti, R. S. Bernardes and N. A. Campana (Brazil)</i></p> <p>Assessment methodology for Korean TMDLs using flow and load duration curves. <i>Authors: S. Han, H. S. Shin and S. Kim (South Korea)</i></p> |

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| | <p>Water quality change in the past 15 years in Lake Baiyangdian: Implication on watershed management. <i>Authors: Y. X. Li, J. L. Liu and Z. F. Yang (China)</i></p> <p>Occurrence of 93 PPCPs in Yodo River System and their toxicity to Vibrio fishery. <i>Authors: H. Sugishita, N. Yamashita, H. Tanaka, S. Tanaka, S. Fujii, I. Howa and C. Konishi (Japan)</i></p> <p>Evolution of the monitoring water quality system in Ipojuca River basin, Brazil <i>Authors: M. Sobral, S. Montenegro, G. Gunkel, A. M. L. Barros and J. Aureliano (Brazil)</i></p> <p>Watershed management in the Scharmütelsee region (Northern lowland, Germany) and how to reach the good ecological status of lakes <i>Authors: Nixdorf, B., Grüneberg, B., Rücker, J. Deneke, R. and H. Behrendt (Germany)</i></p> <p>The climate change and groundwater regimes in Finland <i>Authors: R. Mäkinen, M. Orvomaa, N. Vejjalainen and I. Huttunen (Finland)</i></p> <p>Climate change: Towards an adaptive water management in Slovenia <i>Authors: B. Djurović, A. Bizjak and M. Kobold (Slovenia)</i></p> |
| Monitoring and Modelling | |
| | <p>Modelling of bubble plume destratification in the 15-Khordad Reservoir Using DYRESM. <i>Authors: M. Faghihi and A. Etemad-Shahidi (Iran)</i></p> <p>Application of integrated modelling for basin wide sustainable management of water quality. <i>Authors: A. G. Capodaglio, G. Tartari and A. Callegari (Italy)</i></p> <p>Are river habitat models appropriate tools for implementation of the EU WFD? The Norwegian River Habitat Toolkit evaluated with benchmark criteria <i>Authors: T. H. Bakken, J. H. Halleraker, K. T. Alfredsén, A. Harby and M. Stickler (Norway)</i></p> <p>Application of the nutrient emission model MONERIS to the Ipojuca River Basin, Brazil <i>Author: A. M. de Lima Barros, H. Behrendt and M. do Carmo Sobral (Brazil)</i></p> <p>Application of hyperspectral remote sensing methods in environment state survey. <i>Authors: Deákvári J., L. Fenyvesi, L. Kovács and Z. Papp (Hungary)</i></p> <p>Hyperspectral technology – supporting in-situ phytoremediation <i>Author: A. Nagy and J. Tamás (Hungary)</i></p> <p>Planning for sustainable futures: Linking river basin management and land use planning in Scotland <i>Authors: H. M. Smith, K. L. Blackstock, A. J. Scott (United Kingdom)</i></p> |
| Pollution Sources and Controls | |
| | <p>The Flood Risks in Gyergyó and Csík Basins <i>Authors: G. Pándi, Z. Makfalvi, Cs. Horváth, Zs. Makfalvi (Romania)</i></p> <p>The WETwin project: Enhancing the role of wetlands in integrated water resources management for twinned river basins in EU, Africa and South-</p> |

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| | <p>America in support of EU Water Initiatives <i>Authors: I. Zsuffa, J. Cools, P. Vlieghe, P. Debels, A. van Griensven, A. van Dam, T. Hein, F. Hattermann, M. Masiyandima, M.P. Cornejo R. de Grunauer, R. Kaggwa and C. Baker (Hungary, Belgium, The Netherlands, Austria, Germany, South Africa, Ecuador, Uganda)</i></p> <p>Pollution state and modelling of organophosphoric acid triesters in the Yamato River basin. <i>Author: H. Shimazu (Japan)</i></p> <p>Water quality study of the Itaparica Reservoir, SÃO Francisco River, Brazil <i>Author: G. L. de Melo, M. do Carmo Sobral and G. Gunkel (Brazil, Germany)</i></p> <p>Removal of BOD5 in subsurface flow constructed wetlands: Hungarian experiences <i>Author: E. Dittrich (Hungary)</i></p> <p>Enhancing Stakeholders Involvement for the Integrated Management of the Mesta / Nestos River Basin <i>Authors : M. Scoullou, D. Faloutsos, V. Constantianos and G. Bardaska (Greece, Bulgaria)</i></p> <p>Analysis of Public Participation in River Basin and Water Resource Management - Efficiency, Acceptance, Cost Implications <i>Authors: K. Rohrhofer, F. Cate, O. Kehrler, R. Vettermann, P. Klein and G. Mikovits (Austria)</i></p> |
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