

# Advanced water supply and wastewater treatment: a road to safer society and environment

Lviv, Ukraine, May 19 - 22, 2010

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## Workshop Program

### Wednesday, May 19, 2010, Arrival

18:00 - 20:00 Presentation, networking

### Thursday, May 20, 2010 - Day 1

07:00-08:30 **Breakfast**

09:00-09:10 Workshop objectives, introductions (*J. Marsalek, P. Hlavínek and I. Winkler*)

09:10-09:30 Strategies for enhancing sustainability of urban waters (*J. Marsalek, Canada*)

#### Advanced water supply

Chair: **J. Marsalek**

Reporter: **N. Kreuzinger**

09:30-09:50 Advances in Water Supply in Slovakia (*J. Kriš, Slovakia*)

09:50-10:10 Water pollution level as key impact of human health. Analysis and predicting health status after water supply system improvement for Chernivtsi city (*B. Skip, Ukraine*)

10:10-10:30 Examples of reconstruction and extension of group water supply systems in the Czech Republic (*P. Kopeček, Czech Republic*)

10:30-10:50 **Break**

10:50-11:10 NOM removal from freshwater supplies by advanced separation technology (*N. Aliverti, Italy*)

11:10-11:30 The Influence of Seasonality on the Economic Efficiency of the Wastewater Treatment Plants (*F. Hernández-Sancho, Spain*)

11:30-12:30 Discussion

12:30-13:30 **Lunch**

#### Advanced wastewater treatment

Chair: **I. Winkler**

Reporter: **R. Messalem**

13:30-13:50 Perspectives of decentralized WWTP for rural areas (*P. Hlavínek, Czech Republic*)

13:50-14:10 Combined sewage network in hilly region: field survey and pollutant overflow optimisation (*S. Pagliara, Italy*)

14:10-14:30 Solar water purification (*O. Udovyk, Ukraine*)

14:30-15:00 **Break**

15:00-15:20 Application of membrane and membrane-like technologies for state-of-the-art wastewater treatment (*A. Capodaglio, Italy*)

15:20-15:40 Type of sewer system – technical and environmental advances and arrangements (*Š. Stanko and I. Škultetyová, Slovakia*)

15:40-16:00 Discussion

16:00-17:00 Poster Session (posters are displayed throughout the workshop)

17:00-19:30 Guided tour City Lviv

19:00-20:00 **Dinner**



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### Friday, May 21, 2008 - Day 2

07:00-08:30 **Breakfast**

#### Advanced wastewater treatment

Chair: **J. Kris**

Reporter: **C. Lipchin**

09:00-09:20 Ozonation of tertiary treated wastewater - a solution for micro pollutant removal and disinfection? (*N. Kreuzinger, Austria*)

09:20-09:40 Fate and the removal efficiency of micro-pollutants in municipal wastewater treated in a conventional activated sludge (CAS) process followed by ultrafiltration (UF) and in a membrane bioreactor (MBR) (*R. Messalem, Israel*)

09:40-10:00 Sludge treatment on small and middle WWTP in Slovakia (*I. Mahriková, Slovakia*)

10:00-10:30 **Break**

10:30-10:50 Use of natural materials for wastewater treatment & improvement of water quality (*G. Torosyan, Armenia*)

10:50-11:10 Feasibility studies for water reuse projects: economic valuation of environmental benefits (*M. Molinos Senante, Spain*)

11:10-11:30 Water resources in Jordan (*A. Jiries, Jordan*)

11:30-12:30 Discussion

12:30-13:30 **Lunch**

#### Case studies of water resource management

Chair: **I. Mahrikova**

Reporter: **A. Capodaglio**

13:30-13:50 Impact of waste water of the Ignalina Nuclear Power Plant on Lake Druksiai before plant decommissioning (2007–2009) (*E. D. Marciulioniene, Lithuania*)

13:50-14:10 Transboundary migration of the river water pollutants between Ukraine and Romania: a case study of Bukovyna region (*I. Winkler, Ukraine*)

14:10-14:30 Limitations of Sustainable Reuse of Wastewater and Sludge in Jordan; Residues of Persistent Organic Pollutants (POPs) (*M. I. Batarseh, Jordan*)

14:30-15:00 **Break**

15:00-15:20 An Overview of Marginal Water Resources Management in Israel and the Palestinian Authority (*C. Lipchin, Israel*)

15:20-15:40 Reflections on the Water Cycle Impact on the Peace Process in the Middle East (*S. Brenner, Israel*)

15:40-16:00 Discussion

16:00-16:30 Workshop Summary and Conclusions (*P. Hlavinec, J. Marsalek*)

16:30-18:00 Poster Session (posters are displayed throughout the workshop)

19:00-22:00 **Social Dinner**

### Saturday, May 22, 2010 - Day 3 Field trip



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## Poster session:

Contributions to the development of photometric and spectrophotometric portable cases for the water analysis (*S. Gutt, Romania*)

A new generation of instrumental analytical devices for controlling and monitoring of water quality (*G. Gutt, Romania*)

Membrane technologies for wastewater treatment (*S. Vaverova, Czech Republic*)

Study of the toxic effects of wastewaters discharged from the Vilnius treatment plant to fish (*N. Kazlauskienė, Lithuania*)

Phytoremediation of waters at urban station of water purification by water hyacinth with preinduction of metallothioneins (*O. Momot, Russia*)

Anoxic Granulation in USB reactor with Anaerobic Granulated Sludge as a Inoculum (*K. Galbová, Slovakia*)

Comparison of two flat sheet membrane modules used in real domestic wastewater treatment plant (*T. Pikorová, Slovakia*)

Photocatalytic degradation of some organic water pollutants (*N. Husyak, Ukraine*)

Problems of regulations of antropogenic load on water objects with various dilution capacity in Ukraine (*A. Choban, Ukraine*)

Current state, problems and prospects of the drinking water supply in Chernivtsi (*Y. Tevtul*)

Sorption of the artesian water cations by basalt tufa (*V. Tsymbalyuk, Ukraine*)



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