



XXXIV International School of Hydraulics

11 - 14 May · 2015 · Żelachów · Poland

DETAILED PROGRAM

11.05.2015 – Monday	
9:30	Meeting point and departure from Warsaw
11:30 - 12:30	Registration
13:00	Lunch
14:30 - 16:00	SESSION I – Chairman: P. M. Rowiński
14:30	Opening of the XXXIV International School of Hydraulics <u>P. M. Rowiński</u>
15:00	Lecture I <u>A. Marion</u> : "The HYTECH Project and new opportunities for eco-hydraulics in the Marie Skłodowska-Curie Actions within Horizon 2020"
16:00	Coffee break
16:30 - 17:15	SESSION II – Chairman: P. Davies
16:30	<u>A. Strużyński</u> , M. Wyrębek and K. Kuryś-Wójcik: "Bed dynamics of the river Raba in the semi-natural hilly stretch from the mouth of Lubienka to the mouth Krzczonówka"
16:45	<u>K. Papadopoulos</u> , V. Nikora, S. Cameron, M. Stewart, H. Biggs and C. Gibbins: "Time-averaged hydrodynamic equations for mobile-bed conditions"
17:00	<u>E. Kazemi</u> , S. Tait, S. Shao and A. Nichols: "Potential application of mesh-free SPH method in turbulent river flows"
19:00	Welcome Dinner

12.05.2015 – Tuesday

8:00	Breakfast
9:00 - 10:30	SESSION I – Chairman: A. Marion
9:00	Lecture I <u>B. Statzner</u> and N. Lamouroux: <i>"Testing predictions of changes in the abundance and community structure of benthic invertebrates and fish after flow restoration in a large river (French Rhône)"</i>
10:00	<u>J. Hakiel</u> and M. Szydłowski: <i>"Interaction between storm water conduit flow and overland flow for numerical modelling of urban area inundation"</i>
10:15	<u>T. Kolerski</u> : <i>"Modeling of ice passage through reservoirs system on the Vistula River"</i>
10:30	Coffee break
11:00 - 12:30	SESSION II – Chairman: F. Ballio
11:00	<u>P. West</u> , J. Hart, I. Guymer and V. Stovin: <i>"Development of a laboratory system and 2D routing analysis to determine solute mixing within aquatic vegetation"</i>
11:15	<u>F. Sonnenwald</u> , V. Stovin, and I. Guymer: <i>"Feasibility of the porous zone approach to modelling vegetation in CFD"</i>
11:30	<u>J. R. Manson</u> , S. G. Wallis, B. O. L. Demars, J. D. Mick, G. M. Gíslason, J. S. Ólafsson and N. Friberg: <i>"A comparison of three solute transport models using mountain stream tracer experiments"</i>
11:45	<u>J. Savickis</u> , M. Zaramella, A. Bottacin-Busolin, G. Nützmänn and A. Marion: <i>"Vegetation and flow rate impact on in-stream longitudinal dispersion and retention processes"</i>
12:00	<u>N. Sabokrouhiyeh</u> , A. Bottacin-Busolin, H. Nepf and A. Marion: <i>"Effects of vegetation density and wetland aspect ratio variation on hydraulic efficiency of wetlands"</i>
12:15	<u>A. Rajwa-Kuligiewicz</u> , R. J. Bialik and P. M. Rowiński: <i>"Experimental investigations on the oxygen transfer efficiency at low-head hydraulic structures"</i>
13:00	Lunch

14:00 - 15:30	SESSION III – Chairman: J. Aberle
14:00	Lecture II <u>H. Nepf</u> : " <i>Vegetation Hydrodynamics at the Blade-Scale and the Canopy-Scale</i> "
15:00	<u>S. Licci</u> , C. Delolme, P. Marmonier, M. Philippe, L. Cornacchia, V. Gardette, T. Bouma and S. Puijalon: " <i>Effect of aquatic plant patches on flow and sediment characteristics: the case of Callitriche platycarpa and Elodea nuttallii</i> "
15:15	<u>L. Cornacchia</u> , S. Licci, J. van de Koppel, D. van der Wal, G. Wharton, S. Puijalon and T. J. Bouma: " <i>Flow velocity and morphology of a submerged patch of the aquatic species Veronica anagallis-aquatica L.</i> "
15:30	Coffee break
16:00 - 17:00	SESSION IV – Chairman: S. Tait
16:00	<u>J. Doroszkiewicz</u> and R. J. Romanowicz: " <i>Flood adaptation strategy in Poland and Norway</i> "
16:15	<u>E. Karamuz</u> , M. Osuch and R. J. Romanowicz: " <i>Sensitivity and uncertainty assessment in distributed flow routing – Middle River Vistula case study</i> "
16:30	<u>M. Nones</u> and C. Gerstgraser: " <i>Morphological impact of a restoration project: the case of the Spree River, Cottbus, Germany</i> "
16:45	T. Kałuża, K. Szoszkiewicz, <u>A. Radecki-Pawlik</u> , N. Walczak and K. Plesiński: " <i>Impact of river restoration on hydromorphological processes: the Flinta River as a case study</i> "
19:00	Dinner

13.05.2015 – Wednesday	
8:00	Breakfast
9:00 - 10:30	SESSION I – Chairwoman: H. Nepf
9:00	Lecture I <u>P. Davies</u> : " <i>Waves on density interfaces</i> "
10:00	<u>J. SziŃo</u> and R. Bialik: " <i>River-bed morphology changes during winter season in the regulated channel of the Wilga River, Poland</i> "
10:15	<u>M. Abdallah</u> and J. Stamm: " <i>Modeling of ice passage through reservoirs system on the Vistula River</i> "

10:30	Coffee break
11:00 - 12:30	SESSION II – Chairman: B. Statzner
11:00	<u>M. M. Mrokowska</u> , P. M. Rowiński, L. Książek, A. Strużyński, M. Wyrębek and A. Radecki-Pawlik: <i>"Flume experiments on gravel bed load transport in unsteady flow – preliminary results"</i>
11:15	<u>P. Nardone</u> and K. Koll: <i>"Experimental investigation of hydraulically different surface roughnesses"</i>
11:30	<u>B. A. Zaid</u> and K. Koll: <i>"Sensitivity of the flow to the inclination of a single submerged groyne in a curved rectangular flume"</i>
11:45	<u>R. Aleixo Y. Ozeren</u> and M. Altinakar: <i>"PIV-PTV measurements of a tailings dam-break flow"</i>
12:00	<u>V. Pasquino</u> , P. Gualtieri and G. P. Doria: <i>"River vegetation: an experimental work to evaluate flow resistance with classic hydraulic formulas"</i>
12:15	<u>W. Kociuba</u> : <i>"Effective method for continuous measurement of bedload transport rates by means of RBT in a small glacial High Arctic gravel-bed river"</i>
13:00	Lunch
14:45 - 15:30	SESSION III – Chairman: S. Wallis
14:45	<u>M. Cecchetto</u> , S. Tait and A. Marion: <i>"Step length influence in modelling advection and dispersion of bed-load particles"</i>
15:00	<u>N. Sadid</u> , F. Beckers, M. Noack and S. Haun: <i>"A volume balance approach to determine a bed load transport relevant discharge to compress a natural flow hydrograph used for long-term morphological investigations"</i>
15:15	<u>I. Seco</u> , M. Gómez-Valentín, S. Tait and A. Marion: <i>"Significance of the sediment properties and aquatic environmental conditions on the erodibility of deposited beds"</i>
15:30	Coffee break
16:00 - 17:00	SESSION IV – Chairman: V. Nikora
16:00	<u>S. A. Hosseini Sadabadi</u> , A. Radice and F. Ballio: <i>"An analysis of entrainment and deposition rate fluctuations in weak bed load transport"</i>
16:15	<u>R. Bialik</u> and M. Karpiński: <i>"Diffusion of particles: to what extent can experiments support numerical simulations and vice versa?"</i>
16:30	Closing of the XXXIV International School of Hydraulics <u>P. M. Rowiński</u>
20:00	Conference Dinner

14.05.2015 – Thursday	
8:00	Breakfast
9:00	Discussion time
10:00	Departure from Żelechów
about 12:00	Arrival in Warsaw
13:00	HYTECH meeting

15.05.2015 – Friday	
	HYTECH meeting

16.05.2015 – Saturday	
7:00	Departure from Żelechów
about 9:00	Arrival in Warsaw

