



XXXVI

# International School of Hydraulics

23 - 26 May 2017 • Jachranka • Poland

<b>Conference office</b>	Everyday 8:00 – 19:00	
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## DETAILED PROGRAM

23.05.2017 – Tuesday	
9:00 – 9:30	Meeting point in front of the Institute of Geophysics PAS in Warsaw
9:30	Departure from Warsaw
11:00 - 12:00	Registration
12:00	Lunch
13:15	Meeting for all sessions' chairs and co-chairs (chaired by M.M. Mrokowska)
13:30	<b>Opening of the XXXVI International School of Hydraulics</b> M.B. Kalinowska and P.M. Rowiński – School Chairs B. Orlecka-Sikora – Director of the Institute of Geophysics PAS
13:30 - 15:00	<b>SESSION I</b> – Chaired by P.M. Rowiński and M.M. Mrokowska
14:00	<b>Lecture I</b> <u>W. Majewski</u> : "Natural and anthropogenic changes of the Vistula outlet to the sea"
14:30	J. Savickis, M. Zaramella, A. Bottacin-Busolin, M. Tregnaghi, <u>A. Marion</u> : "Characterizing retention processes in streams using retention metrics"
14:45	<u>M. Golzar</u> , F. Sonnenwald, I. Guymer, V. Stovin: "A CFD based comparison of mixing due to regular and random cylinder arrays"
15:00	Coffee break

<b>15:30 - 17:00</b>	<b>SESSION II</b> – Chaired by P.M. Rowiński and M.M. Mrokowska
15:30	<b>Keynote Lecture I</b> <u>J. Fenton</u> : <i>"Where Small is Beautiful – mathematical modelling and free surface flows"</i>
<b>17:00</b>	<b>Coffee break</b>
<b>17:15 - 18:30</b>	<b>SESSION III</b> – Chaired by S. Wallis and E. Szałkiewicz
17:15	<u>A. Rajwa-Kuligiewicz</u> , K. Plesiński, J.R. Manson, A. Radecki-Pawlik, P.M. Rowiński: <i>"Spatial distribution of dissolved oxygen at rapid hydraulic structures as an indicator of local-scale processes"</i>
17:30	<u>E. Dallon</u> , A. Bottacin-Busolin, N. Sabokrouhiyeh, M. Tregnaghi, A. Marion: <i>"Numerical study of sedimentation in uniformly vegetated wetlands"</i>
17:45	<u>Ł. Przyborowski</u> , A.M. Łoboda, M. Karpiński, R.J. Bialik: <i>"Characteristics of flow around aquatic plants in natural conditions: experimental setup, challenges and difficulties"</i>
18:00	P. Chakraborty and <u>A. Sarkar</u> : <i>"Flow characteristics through emerged rigid vegetation over a perturbed bed"</i>
18:15	<u>S. Khaple</u> : <i>"Time variation of scour at downstream pier for two piers in tandem arrangement"</i>
<b>19:00</b>	<b>Welcome Dinner</b>

<b>24.05.2017 – Wednesday</b>	
<b>7:30</b>	<b>Breakfast</b>
<b>8:45 - 10:30</b>	<b>SESSION I</b> – Chaired by R. Manson and S. Khaple
8:45	<b>Keynote Lecture II</b> <u>S. Wieprecht</u> : <i>"Challenges in numerical modeling of sediment transport processes: how to run the gamut from granular structure to large scale transport behavior?"</i>
9:30	<u>K.S. Snigur</u> and I.I. Potapov: <i>"Mathematical modelling of sand-gravel bed evolution in one dimension"</i>
9:45	<u>C.U. Navaratnam</u> , J. Aberle and J. Daxnerová: <i>"An experimental investigation on porosity in gravel beds"</i>
10:00	<u>J. Qin</u> , J. Aberle: <i>"Spectral behavior of sand bed rivers at small wavelengths"</i>
10:15	<u>E. Szałkiewicz</u> , T. Dysarz, T. Kałuża, A. Malinger and A. Radecki-Pawlik: <i>"The deflectors impact on sediment transport processes on the basis of modelling and simulations"</i>
<b>10:30</b>	<b>Coffee break</b>
<b>11:00 - 13:00</b>	<b>SESSION II</b> – Chaired by A. Marion and Ł. Przyborowski
11:00	<b>Keynote Lecture III</b> <u>A.M. da Silva</u> : <i>"Myths in meandering morphodynamics"</i>

11:45	<u>M. Nones</u> , A. Pugliese, A. Domeneghetti and M. Guerrero: <i>"Po River morphodynamics modelled with the open-source code iRIC"</i>
12:00	<u>H. Shi</u> , Q. Lu and Z. Ji: <i>"Analysis on Yellow River Delta evolution with fluxes of runoff and sediment"</i>
12:15	<u>A.M. Łoboda</u> : <i>"The new insights on the study of biomechanics of aquatic plants"</i>
12:30	<u>A. Kodura</u> , M. Kubrak, P. Stefanek and K. Weinerowska-Bords: <i>"An Experimental Investigation of Pressure Wave Celerity During the Transient Slurries Flow"</i>
12:45	<u>M. Kubrak</u> , A. Kodura and S. Imiętowski: <i>"Analysis of Pressure Wave Velocity in a Steel Pipeline with Inserted Fiber Optic Cable"</i>
<b>13:00</b>	<b>Lunch</b>
<b>14:00 - 15:00</b>	<b>SESSION III</b> – Chaired by M.B. Kalinowska and A. Rajwa-Kuligiewicz
14:00	<u>M. Maciejewski</u> , Committee for Water Resources Management of the Polish Academy of Sciences
14:15	<u>O. Lauva</u> and B. Gjunsburgs: <i>"Equilibrium time of scour near water engineering structures on river floodplains"</i>
14:30	<b>Lecture II</b> <u>A. Magnuszewski</u> : <i>"Zegrze Reservoir history and future"</i>
<b>15:00</b>	<b>Break</b>
<b>15:30 - 19:00</b>	<b>STUDY TRIP</b>
<b>19:00</b>	<b>Dinner</b>

<b>25.05.2017 – Thursday</b>	
<b>7:30</b>	<b>Breakfast</b>
<b>8:45 - 10:30</b>	<b>SESSION I</b> – Chaired by S. Wieprecht and M. Nones
8:45	<b>Keynote Lecture IV</b> <u>A.M. da Silva</u> : <i>"Large-scale river turbulence and its morphological consequence"</i>
9:30	<u>A. Sharma</u> and B. Kumar: <i>"Higher order statistics of Reynolds shear stress in nonuniform sand bed channel"</i>
9:45	<u>G. Dolcetti</u> , A. Krynkina, K.V. Horoshenkov and S.J. Tait: <i>"An acoustic technique to measure the velocity of shallow turbulent flows remotely"</i>
10:00	<u>O. Herrera-Granados</u> : <i>"Comparison of Two Numerical Turbulent Flow Models of a Sharp-Groyne Field"</i>
10:15	<u>W. Artichowicz</u> and D. Gąsiorowski: <i>"Numerical analysis of steady gradually varied flow in open channel networks with hydraulic structures"</i>
<b>10:30</b>	<b>Coffee break</b>

<b>11:00 - 13:00</b>	<b>SESSION II</b> – Chaired by J. Fenton and K. Snigur	
11:00	<b>Keynote Lecture V</b> <u>R. Ettema</u> : <i>"Ice Formation Processes and Their Consequences in Hydraulic Engineering"</i>	
12:30	<u>M. Szydłowski</u> and <u>T. Kolerski</u> : <i>"Numerical modeling of water and ice dynamics for analysis of flow around the Kiezmark bridge piers"</i>	
12:45	<u>A. Badarch</u> and H. Tokuzo: <i>"Lattice Boltzmann method for the numerical simulations of the melting and floating of ice"</i>	
<b>13:00</b>	<b>Lunch</b>	
<b>14:30 - 15:30</b>	<b>SESSION III</b> – Chaired by I. Guymer and M. Golzar	
14:30	<u>A. Goździk</u> : <i>"Want to disseminate effectively your research results among European secondary schools? Conduct a webinar in the EDU-ARCTIC project!"</i>	
14:45	<u>L. Ziółkowski</u> : <i>"Analytical work in the process of creating Flood Risk Management Plans"</i>	
<b>POSTER PITCHES</b>	15:00	<u>M.B. Kalinowska</u> , M.M. Mrokowska and P.M. Rowiński: <i>"Sensitivity analysis for the water-air heat exchange term"</i>
	15:03	<u>L. Książek</u> , M. Wyrębek, M. Strutyński and A. Woś: <i>"Numerical modeling of water flow conditions with spatial distributed boulder in main channel"</i>
	15:06	A. Strużyński, O. Pylypovych, <u>J. Florek</u> , A. Mykhnovych: <i>"River bed deformations in the Yablunka channel under the influence of gravel-pits exploitation"</i>
	15:09	<u>Z. Dong</u> , F. Liu and Q. Guo: <i>"Study on the law of exposure degree in different equivalent particle size"</i>
	15:12	<u>D. Wang</u> , Z. Ji , H. Shi, A. Deng and Q. Lu: <i>"Error analysis of hydraulic radius evaluation in open channel flow hydraulic calculation"</i>
	15:15	<u>Z. Ji</u> , C. Hu, J. Liu, H. Shi: <i>"Distributional characteristics of sediment concentration in the lotus-root-shape compound channels"</i>
	15:18	<u>A. Rutkowska</u> , P. Willems, C. Onyutha, W. Młoczek: <i>"Variability of maximum river flow quantiles in the Upper Vistula river basin, Poland"</i>
	15:21	<u>M Osuch</u> , R. Romanowicz and W.K. Wong: <i>"Analysis of low flow uncertainties under varying climatic conditions"</i>
	15:24	<u>M.M. Mrokowska</u> : <i>"Experimental studies on particles settling in low Reynolds number regime"</i>
<b>15:30</b>	<b>Coffee break</b>	
<b>15:45 - 16:15</b>	<b>POSTER SESSION</b> – Chaired by I. Guymer and M. Golzar	
<b>16:15</b>	<b>Coffee break</b>	
<b>16:30 - 18:00</b>	<b>WORKSHOP: "An Introduction to Research Data Management"</b> <u>M. Hoffman-Sommer</u>	
<b>16:30 – 17:00</b>	<b>Best Young Researchers Presentation Award jury meeting</b> (chaired by M. Osuch)	
<b>20:00</b>	<b>Conference Dinner</b>	

26.05.2017 – Friday	
8:00	Breakfast
9:45 - 10:30	SESSION I – Chaired by A.M. da Silva and E. Dallan
9:45	<b>Keynote Lecture VI</b> <u>S. Wieprecht</u> : "Influence of morphological changes on ecology: a cascade of scales"
10:30	Coffee break
11:00 - 12:00	SESSION II – Chaired by A.M. da Silva and E. Dallan
11:00	<b>Lecture III</b> <u>M. Franca</u> : "Density currents: theory and experimental results"
11:30	<u>M. Kiraga</u> and Z. Popek: "Geometry description of local scouring process in various laboratory water structure models"
11:45	<u>S. Wallis</u> and R. Manson: "Flow dependence of the parameters of the transient storage model"
12:00	Coffee break
12:15 - 13:30	SESSION III – Chaired by R. Ettema and C.U. Navaratnam
12:15	<u>A. Strużyński</u> , D. Gariat, L. Bouchet, M. Wyrębek, K. Kulesza: "Numerical modeling of flow dynamics on a gravel bar during high discharge in a mountain river "
12:30	<u>P. Zima</u> : "Mathematical modelling of the impact range of sewage discharge on the Vistula water quality in the region of Włocławek"
12:45	<u>M.M.C.L. Lima</u> , E. Carvalho and R. Aleixo: "LDV measurements of the flow induced by an elongated bridge pier: the fixed bed case"
13:00	<b>Closing of the XXXVI International School of Hydraulics</b> <u>M.B. Kalinowska</u> and <u>P.M. Rowiński</u>
13:30	Lunch
14:30	Departure from Jachranka
about 16:00	Arrival in Warsaw

