

## DETAILED SYMPOSIUM PROGRAM

**Thursday, 5.9 10h30 – 12h00**

**Plenary Session: Invited Speakers**

Chairman: Prof. Cvetanka Popovska, Prof. Andrej Soltesz, Assoc. Prof. Tomasz Kolerski, Assist. Prof. Tomáš Julínek, Dr. Petr Lichtneger, Prof. Damir Bekić

Topic	Start time	End time	Authors	Title	Country
1	10h30	10h45	Prof. Andrej Soltesz	FLOOD PROTECTION DESIGN FOR MUNICIPALITIES OF SLOVAKIA IN VARIOUS HYDROLOGICAL CONDITIONS	Slovakia
1	10h45	11h00	Prof. Milorad Jovanovski	FLOODS AND POST-RECOVERY OF LANDSLIDES	North Macedonia
2	11h00	11h15	Assist. Prof. Gordon Gilja	EXPERIMENTAL INVESTIGATION OF FLOW FIELD IN A PHYSICAL FISHWAY MODE	Croatia
2	11h15	11h30	Assoc. Prof. Tomasz Kolerski	MATHEMATICAL MODELLING OF RIVER ICE PROCESSES	Poland
2	11h30	11h45	Assist. Prof. Tomáš Julínek	FLOOD HAZARDS RELATED TO EFFECTS OF GROUNDWATER FLOW	Czech Republic
2	11h45	12h00		QUESTIONS AND DISCUSSIONS	

**Thursday, 5.9 13h30 – 15h00**

**Working Session 1: Integrated Water Resources Management & Hydraulic Engineering and Environmental Impacts 1**

Chairman: Prof. Cvetanka Popovska & Assist. Prof. Ing. Tomáš Julínek

Topic	Start time	End time	Authors	Title	Country
1	13h30	13h45	Jelena Markovic Brankovica, Milica Markovica, Jelica Protic	ASSESSMENT OF MULTI-OBJECTIVE OPERATION OF THE “BOVAN” RESERVOIR DUE TO SILTATION (*)	Serbia
1	13h45	14h00	Frosina Panovska, Stevcho Mitovski, Ljupcho Petkovski	APPLICATION OF SIMULATION MODEL IN CASE OF MULTI-RESERVOIR SYSTEM PLANNING	North Macedonia
2	14h00	14h15	Dominika Kalinowska, Paweł Wielgat, Tomasz	APPLICATION OF THE SOIL AND WATER ASSESSMENT TOOL (SWAT)	Poland

			Kolerski, Michał Szydłowski, Piotr Zima	TO MODEL THE IMPACT OF FERTILIZATION PRACTICES IN AGRICULTURAL AREAS ON COASTAL WATERS OF THE BALTIC SEA IN PUCK BAY REGION	
2	14h15	14h30	Gordon Gilja, Neven Kuspilić, Nina Golubović	IMPACT OF RIVER TRAINING WORKS ON THE DRAVA RIVER FLOW REGIME	Croatia
2	14h30	14h45	Antonija Cikojević, Gordon Gilja, Neven Kuspilić	SENSITIVITY ANALYSIS OF EMPIRICAL EQUATIONS APPLICABLE ON BRIDGE PIERS IN SAND-BED RIVERS	Croatia
2	14h45	15h00	Nevena Cvijanović, Mladen Kostić, Dimitrije Mladenović	APPLICATION OF ADCP IN SUSPENDED SEDIMENT MONITORING	Serbia

**Thursday, 5.9 15h30 – 17h00**

**Working Session 2: Hydraulic Engineering and Environmental Impacts 2**

Chairmen: Prof. Violeta Gjesovska & Prof. Andrej Soltesz

Topic	Start time	End time	Authors	Title	Country
7	15h30	15h45	Katerina Donevska, Angelco Panov	CLIMATE CHANGE IMPACT ON IRRIGATION WATER REQUIREMENTS: CASE STUDY OF IRRIGATION SYSTEM IN SKOPJE VALLEY (*)	North Macedonia
2	15h45	16h00	Martin Orfánus, Andrej Šoltész, Daniel Buček	SIMULATION OF THE FLOOD FORMATION, TIME AND SPATIAL DISTRIBUTION BY USING ADVANCED HYDRODYNAMIC MODELING	Slovakia
2	16h00	16h15	Goran Lončar, Željko Šreng, Tin Kulić, Hanna Miličević, Sanja Ostojčić	NUMERICAL MODELS FOR ANALYSIS OF HYDRAULIC TRANSIENTS	Croatia
2	16h15	16h30	Goce Taseski, Petko Pelivanoski	HYDRAULIC ANALYSIS OF WATER SUPPLY SYSTEM WITHOUT TANKS	North Macedonia
2	16h30	16h45	Damir Bekić, Tin Kulić, Klaudija Bašić	A COMPARISON OF FLOOD ROUTING BY MODIFIED LINEAR MUSKINGUM AND KINEMATIC WAVE APPROACHES ON THE DRAVA AND MURA RIVERS	Croatia
2	16h45	17h00	Lea Čubanová	HYDRAULIC CONSIDERATION OF THE FISH PASS CROSS SECTION USING VELOCITY-AREA METHOD	Slovakia

**Friday, 6.9 8h30 – 10h00****Working Session 3: Sanitary Engineering and Sustainable Water Use**

Chairmen: MSc Slavko Milevski, civ. eng. &amp; Assoc. Prof. Tomasz Kolerski

<b>Topic</b>	<b>Start time</b>	<b>End time</b>	<b>Authors</b>	<b>Title</b>	<b>Country</b>
3	8h30	8h45	Danka Barloková, Ján Ilavský, Michal Marton, Michal Kunštek	PILOT-PLANT EXPERIENCES WITH MEMBRANE FILTRATION AT THE WTP JASNÁ (*)	Slovakia
	8h45	9h00	Sanja Spirovska, Philipp Klingel	CRITICAL INFLUENCING FACTORS FOR THE CAUSES OF PIPE FAILURES AND LEAKAGE IN THE WATER SUPPLY SYSTEMS	North Macedonia
3	9h00	9h15	Ivan Halkijević, Ivan Sokol, Hana Posavčić	SETTLING CHARACTERIZATION OF ELECTROCOAGULATED FLOCS	Croatia
3	9h15	9h30	Ivan Halkijević, Dino Dizdar, Goran Loncar	REMOVAL OF PHOSPHATES FROM WASTEWATER BY ELECTROCOAGULATION	Croatia
3	9h30	9h45	Yveta Veliskova, Marek Sokač	HYDRODYNAMIC DISPERSION IN SEWER: DETERMINATION OF DEAD ZONES PARAMETERS	Slovak Republic
3	9h45	10h00	Dražen Vouk, Goran Lončar, Antonela Musa, Mateo Pandžić, Ante Vekić, Morana Drušković, Anđelina Bubalo, Robert Kollar	EFFICIENCY OF ELECTROCHEMICAL PROCESSES IN REMOVAL OF AMONIUM FROM URINE	Croatia

**Friday, 6.9 10h30 – 12h00****Working Session 4: Hydraulic Structures & Ecohydrology and Water Bodies Protection** Chairmen:

Prof. Ljupcho Petkovski &amp; Prof. Damir Bekic

<b>Topic</b>	<b>Start time</b>	<b>End time</b>	<b>Authors</b>	<b>Title</b>	<b>Country</b>
4	10h30	10h45	Petr Lichtneger, Hubert Holzmann, Christine Sindelar, Johannes Schobesberger, Helmut Habersack	RESEARCH ON THE OUTLET CAPACITY OF THE LAKE MONDSEE TO IMPROVE FLOODRISK MANAGEMENT (*)	Austria
4	10h45	11h00	Gabriella Vaschetti, Vanja Verdel, Alberto Scuero	POLYMERIC GEOMEMBRANES IN NEW ROCKFILL DAMS: 2 CASE HISTORIES	Switzerland

4	11h00	11h15	Dalibor Carevic, Damjan Bujak, Kristina Potočki, Juraj Drašković	WAVE TRANSMISSION BELOW BREAKWATERS WITH SEMI- IMMERSED CURTAIN	Croatia
4	11h15	11h30	Slavko Milevski	CONSTRUCTION OF DAMS AND HYDROPOWERS, AS A MEASURE FOR THE LEVEL OF DEVELOPMENT OF THE STATE	North Macedonia
4	11h30	11h45	Bojan Ristovski	SATELLITE BASED LEAK DETECTION – CASE STUDIES IN MITROVICA (KOSOVO) AND SKOPJE (MACEDONIA)	North Macedonia
5	11h45	12h00	Goran Lončar, Željko Šreng, Hanna Miličević, Sanja Ostojić	NUMERICAL ANALYSIS OF ESCHERICHIA COLI TRANSPORT THROUGH THE KARST ENVIRONMENT (EXAMPLE OF BOKANJAC-POLIČNIK AQUIFER, REPUBLIC OF CROATIA)	Croatia

#### Friday, 6.9 15h30 – 17h00

#### Working Session 5: River Basin Restoration Strategies and Experiences & Climate Change and Flood Risk Management

Chairman: Prof. Katerina Donevska & Dr. Petr Lichtneger

Topic	Start time	End time	Authors	Title	Country
6	15h30	15h45	Cvetanka Popovska, Dimitrija Sekovski, Darko Barbalic	FLOOD RISK MANAGEMENT: AN INSTITUTIONAL DEVELOPMENT PERSPECTIVE (*)	North Macedonia
6	15h45	16h00	Tomáš Julínek, Jaromír Říha	MULTICRITERIAL EVALUATION OF THE BÍLINA RIVER REVITALIZATION	Czech Republic
7	16h00	16h15	Dragan Dimitrievski, Sanja Stoshevska, Darko Ilievski, Ljubenka S. Trendafilova, Katerina Veleska, Aleksandar Trendafilov, Ivan Mincev	PROTECTION FROM EROSION AND RIVER SEDIMENTS BY TORRENTIAL RIVERS AND GULLIES NEAR LOCAL ROADS IN THE MUNICIPALITY OF KONCHE	North Macedonia
7	16h15	16h30	Dimitrija Sekovski, Cvetanka Popovska	ENHANCING RESILIENCE THROUGH RECOVERY OF FLOOD-DAMAGED INFRASTRUCTURE IN MACEDONIA: AN OVERVIEW OF LESSONS AND CHALLENGES	North Macedonia

7	16h30	16h45	Lidija Tadić, Tamara Brleković	DROUGHT AND PRECIPITATION CONCENTRATION INDEX (PCI) ANALYSIS IN CONTINENTAL CROATIA	Croatia
7	16h45	17h00	Jakub Mydla, Andrej Šoltész	POSSIBILITIES OF DESIGN OF FLOOD PROTECTION MEASURES ON THE ONDAVA RIVER	Slovakia

**Friday, 6.9 15h30 – 17h00**

**Working Session 6: Geotechnical aspects of Hydraulic Engineering**

Chairman: Prof. Milorad Jovanovski & Dr. Zlatko Ilijovski

Topic	Start time	End time	Authors	Title	Country
8	15h30	15h45	Josif Josifovski, Bojan Susinov, Magdalena Tasevska	EXPERIMENTAL AND NUMERICAL MODELLING OF RAINFALL-INDUCED SLOPE INSTABILITIES IN UNSATURATED SANDY SOIL (*)	North Macedonia
8	15h45	16h00	Dragan Dimitrievski	MANAGEMENT, EXPLOITATION AND MONITORING OF THE GROUNDWATER	North Macedonia
8	16h00	16h15	Juraj Škvarka, Emília Bednárová	COMPARISON OF CALCULATED AND MEASURED FILTRATION RATES	Slovakia
8	16h15	16h30	Zlatko Ilijovski, Marija Makesovska, Stojan Mihailovski	HYDROGEOLOGICAL ASPECT IN DETERMINING THE PROTECTION ZONES OF THE “NEREZI – LEPENEC” WELL SYSTEM	North Macedonia
8	16h30	16h45	Julijana Bojadjieva, Vlatko Sheshov, Kemal Edip, Toni Kitanovski, Jordanka Chaneva, Dejan Ivanovski	HAZARD AND RISK ASSESSMENT OF EARTHQUAKE GEOTECHNICAL HAZARDS	North Macedonia
8	16h45	17h00	Bojan Susinov, Mihail Naumovski, Josif Josifovski	HYDROLOGICAL ANALYSIS OF HIGH INTENSITY RAINFALLS OVER TOPOLNICA TAILING DAM	North Macedonia

**(\*) – Working Sessions: Keynote Speakers**

Working Session 1:	Jelena Markovic Brankovica, Milica Markovica, Jelica Protic	ASSESSMENT OF MULTI-OBJECTIVE OPERATION OF THE “BOVAN” RESERVOIR DUE TO SILTATION (*)	Serbia
Working Session 2:	Katerina Donevska, Angelco Panov	CLIMATE CHANGE IMPACT ON IRRIGATION WATER REQUIREMENTS: CASE STUDY OF IRRIGATION SYSTEM IN SKOPJE VALLEY (*)	North Macedonia
Working Session 3:	Danka Barloková, Ján Ilavský, Michal Marton, Michal Kunštek	PILOT-PLANT EXPERIENCES WITH MEMBRANE FILTRATION AT THE WTP JASNÁ (*)	Slovakia
Working Session 4:	Petr Lichtneger, Hubert Holzmann, Christine Sindelar, Johannes Schobesberger, Helmut Habersack	RESEARCH ON THE OUTLET CAPACITY OF THE LAKE MONDSEE TO IMPROVE FLOODRISK MANAGEMENT (*)	Austria
Working Session 5:	Cvetanka Popovska, Dimitrija Sekovski, Darko Barbalic	FLOOD RISK MANAGEMENT: AN INSTITUTIONAL DEVELOPMENT PERSPECTIVE (*)	North Macedonia
Working Session 6:	Josif Josifovski, Bojan Susinov, Magdalena Tasevska	EXPERIMENTAL AND NUMERICAL MODELLING OF RAINFALL-INDUCED SLOPE INSTABILITIES IN UNSATURATED SANDY SOIL (*)	North Macedonia

**Thursday, 5.9 15h00 – 15h30**

**Poster session 1**

<b>P1 2 oral</b>	Goce Taseski, Petko Pelivanoski	HYDRAULIC ANALYSIS OF EXISTING SEMI-SEPARATE SEWAGE SYSTEM BY USING SWMM	North Macedonia
<b>P1 4 poster</b>	Aleksandar Radevski	Plovniot pat Dunav, Morava - Vardar - Egejsko More	North Macedonia
<b>P1 2 poster</b>	Elena Aleksova- Dosevska	THE IMPACT ON THE ENVIRONMENT WITH THE CONSTRUCTION OF ALL PHASES FROM THE MULTI-PURPOSE HYDRO SYSTEM ZLETOVICA	North Macedonia
<b>P1 2 oral</b>	Siniša Maričić, Tatjana Mijušković- Svetinović	WATER LEVELS OF THE MAJOR RIVERS IN SLAVONIA	Croatia

<b>P1 2</b>	oral	Nevena Dragičević, Barbara Karleuša, Nevenka Ožanić	EROSION POTENTIAL METHOD MODIFICATION AND APPLICATION REVIEW ON DUBRAČINA RIVER BASIN	Croatia
-------------	------	---	---	---------

**Friday, 6.9 15h00 – 15h30**

**Poster Session 2**

P2 3	oral	Hana Posavčić, Dražen Vouk, Ivan Halkijević	ELECTROCHEMICAL PROCESS FOR MUNICIPAL WASTEWATER TREATMENT – A REVIEW	Croatia
P2 8	poster	Kemal Edip, Vlatko Sheshov, Julijana Bojadjieva, Toni Kitanovski, Jordanka Chaneva, Dejan Ivanovski	NUMERICAL SIMULATION OF SOIL CONSOLIDATION AS A GEOTECHNICAL PHENOMENON	North Macedonia
P2 2	oral	Nevena Dragičević, Barbara Karleuša	EROSION SEVERITY ESTIMATION USING MULTI-CRITERIA ANALYSIS	Croatia
P2 7	poster	Cvetanka Popovska, Milorad Jovanovski Dimitrija Sekovski	BUILD BACK BETTER APPROACH to recovery of flood-Damaged TRANSPORT AND WATER INFRASTRUCTURE	North Macedonia
P2 8	poster	Aleksandra Nikolovska, Josif Josifovski, Bojan Susinov	SURFACE EROSION STABILIZATION OF SLOPES USING POLYMERS AND VEGETATION	North Macedonia
P2 4	poster	Zlatko Zafirovski, Vasko Gacevski, Igor Peshevski, Milorad Ivanovski	SOLUTIONS FOR THE REHABILITATION IN THE HYDROTECHNICAL TUNNEL	North Macedonia