SYMPOSIUM PROGRAMME

Tuesday 5.9.2017. 18.00 Ice-breaker party and registration of delegates Wednesday 6.9.2017. 9.00 Registration of delegates **OPENING CEREMONY** 10.00 10.30 PLENARY SESSION Chairmen: Damir Bekić, Michał Szydłowski, Andrej Šoltész, Petr Lichtneger, Josif Josifovski, Jaromír Říha THE ROLE OF NUMERICAL MODELS IN HYDRAULIC MODELLING OF DEMAND GROWTH IN TOURIST OPTIMIZATION OF THE FLOOD RETENTION ENVIRONMENTAL STUDIES ISLANDS, CASE STUDY: GALÁPAGOS, ECUADOR CAPACITY OF THE LAKE MONDSEE IN AUSTRIA (GORDANA BEG PAKLAR) (NEMANJA TRIFUNOVIC) (HUBERT HOLZMANN) Lunch 12.15 SESSION 1A: EU PROJECTS, SOCIETIES AND INDUSTRY: CLIMATE CHANGE IMPACTS AND SESSION 1B: CATCHMENT AND RIVER SYSTEMS: HYDRAULIC STRUCTURES 13.30 POLICIES Chairmen: Jaromír Říha, Silvia Kohnova Chairmen: Lidija Tadić, Tomáš Julínek FLOODS: NEW CONCEPTS EMERGE - OLD PROBLEMS REMAIN (BONACCI) PREPARATION OF EU FINANCED WASTEWATER COLLECTION AND TREATMENT PROJECTS BRIDGE SMS PROJECT - THE CORK COUNTY COUNCIL EXPERIENCE TIME SERIES FORECASTING OF PARAMETERS IN HYDRAULIC ENGINEERING USING ARTIFICIAL IN CROATIA WITH REGARD TO DIFFICULTIES IN PROJECT APPLICATION (TADIĆ Z., BARAČ, (LAPTHORNE, O'RIORDAN, O'SULLIVAN, RYAN, LARKIN) NEURAL NETWORKS TADIĆ I.) FLOOD MODELING OF WETLAND RESTORATION IN EZERANI NATURE PARK. PRESPA LAKE WATERSHED (HALKUEVIĆ GILIA KUSPILIĆM) (POPOVSKA, PANOV, SEKOVSKI) REMOTE SURVEYING OF FLOOD PROTECTION EMBANKMENTS LONG TERM PREDICTION OF INFLOW USING THE SUPERVISED LEARNING (CAR GAISKI KOVAČEVIĆ) LOSS OF RESERVOIR STORAGE VOLUME BY SEDIMENT DEPOSITION (BERBIĆ, OCVIRK) COMPARISON OF EROSION MODELLING AND BATHYMETRY MEASUREMENT OF SEDIMENT TRANSPORT (SOČUVKA, DUŠEK, VELÍSKOVÁ) APPLICATION OF PHOTOGRAMMETRY FOR HYDRAULIC MODELING OF "SUHA" RIVER IN ON THE SVACENICKY CREEK BASIN IN SLOVAKIA FLOOD RISK SLOVENIA-CROATIA OPERATIONS - STRATEGIC PROJECT 1 - NONSTRUCTURAL THE AREA OF ILLEGAL URBANISATION IN MUNICIPALITY OF KLADANJ, BOSNIA (KOHNOVÁ, HLAVČOVÁ, VELÍSKOVÁ, SOČUVKA, STUDVOVÁ) METHODOLOGY FOR DEVELOPMENT OF THE HYDROLOGICAL MODEL IN SMALL CATCHMENT (SUŠANI OŽANIĆ KARLEUŠA) MEASURES (FRISCO1) AND HERZEGOVINA (BABIĆ, FILIPAN) (KOVČIĆ, ŽIGIĆ, HOGIĆ, HODŽIĆ, TOKIĆ)

15.00 Coffee break

15.30

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| 30 | SESSION 2A: WATER SUPPLY AND WASTEWATER SYSTEMS | | SESSION 2B: CATCHMENT AND RIVER SYSTEMS | |
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| | Chairmen: Štefan Stanko, Danka Barloková | | Chairmen: Goran Lončar, Petr Lichtneger | |
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| | ISLAND OF CRES WATER RESOURCES CARRYING CAPACITY ASSESSMENT | REMOVAL OF IRON AND MANGANESE FROM GROUND WATER WITH MODIFIED ZEOLITES | COMPARISON OF DIFFERENT COMPUTATIONAL METHODS FOR FLOOD MITIGATION | APPLICATION OF REMOTE SENSING FOR MONITORING DEGFULL PAPERATION OF WETLAND |
| | (KUSPILIĆ M., VUKOVIĆ, HALKIJEVIĆ) | (BARLOKOVÁ, ILAVSKÝ) | (JANÍK, ŠOLTÉSZ) | URBAN LAKES – URBAN LAKE JARUN CASE STUDY |
| | | | | (KUNŠTEK, BERBIĆ, DŽAPO, KORDIĆ, BABIĆ) |
| | AVERAGE PRESSURE IN A WATER SUPPLY SYSTEM | NUMERICAL MODELLING OF GROUNDWATER EXTRACTION SYSTEM | FLOOD MODEL AT RACINOVCI AND RAJEVO SELO USING THE 2D MODEL IN HEC-RAS | |
| | (HALKIJEVIĆ, VOUK, POSAVČIĆ) | (SHENGA, BAROKOVÁ, ŠOLTÉSZ) | (KOLAKOVIC SL., JEFTENIC, STIPIC, KOLAKOVIC SR., BUDINSKI) | INVESTIGATION OF FLOW PATTERN AT SCOURED ABUTMENT IN NON-UNIFORM GRAVEL BED |
| | | | | (GILJA, VALYRAKIS, MICHALIS, BEKIĆ, KUSPILIĆ N., MCKEOGH) |
| | HYDRAULIC MODELLING FOR WATER LOSS ANALYSIS AND OPTIMIZATION OF WATER | DETERMINATION OF THE DURATION OF DESIGN STORM FOR MODELING RUNOFF FROM | JOINT PROBABILITY ANALYSIS OF FLOOD HAZARD ON RIVER CONFLUENCES USING BIVARIATE | |
| | SUPPLY SYSTEMS | URBAN CATCHMENT | COPULAS | MULTISCALE ANALYSIS OF RIVERBED TOPOGRAPHY |
| | (DUNDOVIĆ, TADIĆ Z.) | (MAZURKIEWICZ, SOWIŃSKI) | (GILJA, KUSPILIĆ N., OCVIRK) | (KRISTINA POTOČKI, GORDON GILJA, ANA SOVIĆ KRŽIĆ, KUSPILIĆ N.) |
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19.00 GALA DINNER







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15th International Symposium on Water Management and Hydraulic Engineering September 6-8, 2017 - Primošten, Croatia

WMHE 2017

Thursday 7.9.2017.

| 8.30 | SESSION 3A: CATCHMENT AND RIVER SYSTEMS; CLIMATE CHANGE IMPACTS AND POLICIES Chairmen: Ognjen Bonacci, Lea Čubanova | | SESSION 3B: WATER SUPPLY AND WASTEWATER SYSTEMS Chairmen: Ivona Skultetyova, Ivan Halkijević | |
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| | SOCIAL AND ECONOMIC FLOOD DAMAGES ASSESSMENT IN MEDZEV (ZELEŇÁKOVÁ, GAŇOVÁ, PURCZ) | FLOOD MANAGEMENT IN URBAN BASINS OF THE CITY OF GDAŃSK (KOLERSKI, SZAWURSKA) | URBAN SEDIMENT MANAGEMENT – FROM THE RIVER TO THE SEWER (SCHOBESBERGER, FISCHER, SINDELAR, HABERSACK) | APPLICATIONS OF NANOTECHNOLOGY IN WASTEWATER TREATMENT (ZEKIĆ, VUKOVIĆ, HALKIJEVIĆ) |
| | VARIATIONS OF ROUGHNESS COEFFICIENT VALUE DUE TO AQUATIC VEGETATION (VELÍSKOVÁ, SOKÁČ, SCHÜGERL, DULOVIČOVÁ) | RESILIENT DAM INFRASTRUCTURE: PREPARING FOR CLIMATE CHANGE IMPACTS (MICHALIS, PYTHAROULI) | OSIJEK WASTEWATER NETWORK - OBSERVATIONS AND CHARACTERISTICS OF RAINFALL (MARIČIĆ, MJUŠKOVIĆ-SVETINOVIĆ) | LIQUID RESIDENCE TIME IN VORTEX CHAMBERS (GRONOWSKA-SZNELER, SAWICKI) |
| | REDUCING RISK OF EUTROPHICATION IN THE CASE OF SUTLA RIVER BASIN (ČOSIĆ FLAJSIG, KARLEUŠA, VUČKOVIĆ, GLAVAN) | EXTRAORDINARY RAINFALLS IN GDANSK (NORTHERN POLAND) IN THE XXI. CENTURY (SZPAKOWSKI, SZYDLOWSKI) | MANAGEMENT OF SEWAGE SLUDGE - NEW INSIGHT INTO VALORISATION AS SUPPLEMENTARY CEMENTITIOUS MATERIAL | SEWAGE SLUDGE DISPOSAL – CASE STUDY SPLIT-DALMATIA COUNTY (VOUK, NAKIĆ) |
| 10.00 | Coffee break | | (NAKIC, VOUK, STIRMER, SERDAR) | |
| 10.30 | SESSION 4A: CATCHMENT AND RIVER SYSTEMS Chairmen: Michał Szydłowski, Gordon Gilja | | SESSION 4B: WATER SUPPLY AND WASTEWATER SYSTEMS; GEOTECHNICAL ENGINEERING Chairmen: Meho Saša Kovačević, Panagiotis Michalis | |
| | ANALYSIS OF ICE REGIMES ON THE DANUBE IN DALJ IN 2012. AND 2017. (ŠPERAC, SLUNISKI) | ASSESSMENT OF THE IMPACT OF PROPOSED CUT-OFF WALLS ON GROUNDWATER LEVEL REGIME DURING EXTREME HYDROLOGICAL CONDITIONS (BAROKOVÁ, ČERVEŇANSKÁ, ŠOLTÉSZ) | SOLAR DRYING OF SEWAGE SLUDGE (ZEKIĆ, VOUK) | IMPLEMENTATION OF EUROCODE 7 IN THE DESIGN OF FLOOD PROTECTION EMBANKMENTS (BAČIĆ, KOVAČEVIĆ, LIBRIĆ) |
| | GROUNDWATER REGIME IN THE CITY OF KYJOV AFTER TERMINATING PUMPING FROM THE LOCAL MINES (JULÍNEK, ŘÍHA) | (BIRORO IV, CIAN E WEIGHT, SOLEDE) GROUNDWATER VULNERABILITY ASSESSMENT IN PRESPAREGION (KAČESKI) | MANAGEMENT OF SEWAGE SLUDGE - NEW INSIGHT INTO VALORISATION AS SUPPLEMENTARY CEMENTITIOUS MATERIAL (NAKIĆ. VOUK. ŠTIRMER. SERDAR) | UNSATURATED ANALYSES OF EXTREME RAINFALL INFLUENCE ON THE LANDSLIDE STABILITY (JOSIFOVSKI, LENART, SUSINOV) |
| | (ULINER, KIRA) HYDRAULIC-HYDROLOGY SYNTHESIS OF GOLUBINKA SPRING DISCHARGE HYDROGRAPH (LONČAR, ŠRENG, IVEZIČ) | EVALUATION OF GROUNDWATER CONTAMINATION IN THE AREA OF FORMER MILITARY | (MARC, YOOK, STRANEN, SEKDAR) APPLICATION OF GEOSYNTHETICS FOR REINFORCEMENT OF FLOOD PROTECTION EMBANKMENTS | INVESTIGATION WORKS FOR REMEDIATION OF HYDRAULIC STRUCTURES (JURIĆ KAĆUNIĆ, PUŠIĆ, IVOŠ) |
| | | (PETRULA, ŘÍHA, JULÍNEK) | (JURIČ KAČUNIĆ, BAČIĆ, ROSSI) | |

12.15 Lunch

| 12.15 | Luicii | | | |
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| 13.30 | 30 SESSION 5A: HYDRAULIC STRUCTURES | | SESSION 5B: COASTAL ENGINEERING; HYDRAULIC STRUCTURES | |
| | Chairmen: Hubert Holzmann, Nevenka Ožanić | | Chairmen: Jerzy Sawicki, Josif Josifovski | |
| | ANALYSIS OF UNCERTAINTIES IN BRIDGE SCOUR ESTIMATION (GILJA, KERIN, MICHALIS, BEKIĆ, PAKRASHI, MCKEOGH) | PERFORMANCE TESTS AND EVALUATION OF A HYDRO POWER PLANT WITH A DOUBLE ROTATING HYDROPOWER SCREW | SOME COMPUTATIONAL ASPECTS OF AN INTEGRATED MODEL FOR SIMULATING THE SEA ORGAN I ZADAR, CROATIA | IN IMPACT OF WIND, TIDAL VARIATIONS, WAVE FIELD AND DENSITY GRADIENT ON THE SEAWATER EXCHANCE TROUGH FLUSHING CULVERTS IN MARINAS |
| | MORPHODYNAMIC IMPACT OF SCOUR COUNTERMEASURES ON RIVERBED DEVELOPMENT (GILJA, KUSPILIĆ N., TEČIĆ) | (LICHTNEGER, ZEIRINGER, SINDELAR, HABERSACK, LECHNER, MAYER, STRUSKA, T ALBRECHT) POOL FISHWAY HYDRAULIC ANALYSIS | (KRVAVICA, RUŽIĆ, OŽANIĆ) MEASUREMENTS OF WATER CIRCULATION IN MARINA OPATIJA-CROATIA (CAREVIĆ, BUJAK, RAMUŠČAK, KULIĆ) | (BARTOLIĆ, LONČAR, BUJAK, KLAPČIĆ, MIŠURA) |
| | LAB TESTING OF FLOW VELOCITY PATTERN AROUND BRIDGE ABUTMENTS (BEKIĆ, BAŠIĆ, GUDELJ, LONČAR) BRIDGE MANAGEMENT STRATEGIES: CURRENT AND FUTURE TRENDS | POOL FISHWAT IN DRAULE ANALISIS (OCVIRK, GILA, BUJAK) FISH PASS UNDER THE RECONSTRUCTION (CUBANOVÁ, DUŠIČKA P) | (CAREVIC, BUJAK, KANUSCAK, KULIC) ANALYSIS OF WATER EXCHANGE THROUGH THE FLUSHING CULVERTS IN SMALL HARBOURS (BUJAK, CAREVIĆ, RAMUŠČAK, KULIĆ, BARTOLIĆ) | INCREASE OF EFFECTIVITY, RELIABILITY AND SAFETY OF SHIPPING OPERATION ON THE GABČÍKOVO WATER STRUCTURE ON THE DONAU (ŠULEK, KINCZER) |
| | (CAHILL, MICHALIS, GILJA, BEKIĆ, PAKRASHI, MCKEOGH) | (CUDAINTA, DUSICAT) | | BED ROUGHNESS EFFECT ALONG SUBMERGED HYDRAULIC JUMP (TÜRKER, FOROUGHI) |
| 15.15 | Coffee break | | | |
| 15.45 | (VITKOVA, SURDA, DANACOVA) IN HYDROLOGICAL AND HYDRAULIC ANALYSIS OF RIVER CROSSINGS R | ANALISIO I IIII SLEJARISIC) (CARACTERINA INTERIORI CONTRESIONALISIONI CONTRESIONI CONTRESICONI CONTR | MULTILINEAR MUSKINGUM METHOD FOR THE SIMULATION OF FLOOD WAVE MOVEMENT IN THE DANUBE RIVER IN SLOVAKIA (DANÁČOVÁ M, SZOLGAY, DANÁČOVÁ Z) CONSIDERING THE EFFECTS OF HUMAN ACTIVITIES IN FLOOD HAZARD ASSESSMENT RAK, STEINMAN) INALYSIS OF WATER QUALITY OF THE KARAŠICA-VUČICA RIVER (AMIĆ, TADIĆ L.) REMOVAL OF ARSENIC FROM WATER (ILAVSKÝ, BARLOKOVÁ, KAPUSTA, ŠIMKO) | STORMWATER MANAGEMENT IN THE URBAN ENVIRONMENT (ŠPERAC, OBOVIĆ) COMPUTER ANALYSIS OF HYDRAULIC CONDITIONS IN A SANITARY CHAMBER (ZIMA) EFFECT OF VERTICAL SHAPES OF SHAFT INTAKE STRUCTURES ON FLOW VELOCITY DISTRIBUTION (DUŠIČKA M, RUMANN, DUŠIČKA P) EXPERIMENTAL RESEARCH ON FLOW CONDITIONS AT SELF-CLEANING RACKS (TVRDOÑ, RUMANN, DUŠIČKA P) HYBRID MODELLING OF OVERFLOWING BROAD-CRASTED WEIR-PHYSICAL AND NUMERICAL COMPARISON (ORFÁNUS RUMANN, DUŠIČKA M, KINCZER) |
| 16.30 | CLOSING CEREMONY | | | |
| 18.30 | City tour - TROGIR | | | |

Friday 8.9.2017.

| 8.30 | Technical tour - PERUĆA Hydropower plant |
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| 14.00 | Lunch |

17.00 City tour - SPLIT







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