

Conference Agenda

SUN 16 Aug	MON 17 Aug	TUE 18 Aug	WED 19 Aug	THU 20 Aug
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Agenda Overview

Date: Sunday, 16/Aug/2026

1:00pm - 5:00pm	Master Class - Bioengineering: Soil and Water Bioengineering Location: EPFL Campus 4 The course is organized by the European Federation of Soil and Water Bioengineering (EFIB) and the Swiss Association for Soil and Water Bioengineering.	Master Class - Vegetation Dyn.: Vegetation Dynamics – The triade water-sediment-vegetation : from ecomorphodynamics to bioengineering practice Location: EPFL Campus 2	Master Class Flow 3D: Flow-3D – Let’s make it more nature like : 3D Numerical Ecohydraulics Modelling Location: EPFL Campus 1	Workshop - EcoENet: EcoENet – From Theory to River : A Practical Ecohydraulics Workshop for Early-Career Scientists Location: EPFL Campus 3
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Date: Monday, 17/Aug/2026

7:30am - 9:15am	Registration ISE: Delegates can register here upon arrival Location: Entrance desks				
8:00am - 7:00pm	EA1: Art meets Ecohydraulics Location: Foyer garden	Individual meeting M2: Rooms available for individual meetings between delegates Location: Bureau Garden H	Individual meetings M1: Rooms available for individual meetings between delegates Location: Bureau Garden G	PE1: Poster Exhibitions Location: Foyer Garden 5	
9:15am - 10:00am	Welcome: Conference opening, welcome from organisers and authorities Location: Auditorium C & Foyer Cloud Chair: Paolo Perona Chair: Giovanni De Cesare				
10:00am - 10:45am	ISE PT1: Elowyn Yager - Predicting seedling removal by the flow: the importance of sediment scour, plant structure, and bed grain size Location: Auditorium C & Foyer Cloud Chair: Paolo Perona Chair: Hannes Peter				
10:45am - 11:15am	G&A coffee break: Coffee break sponsored by Gruner and Alpiq Location: Foyer Garden Patio				
11:15am - 12:30pm	S17-AM1.1: C2 – Fish passage: design, modelling, and assessment Location: Auditorium C & Foyer Cloud Chair: Luiz Silva This session is sponsored by HydroQuébec 11:15am - 11:30am DEVELOPMENT OF AN IMAGE ANALYSIS-BASED METHOD FOR TRACKING FISH BEHAVIOR IN VERTICAL SLOT FISHWAYS Corentin Rabu, Benoit Tremblais, Renaud Peteri, Laurent Mascarilla, <u>Laurent David</u> , Damien Calluaud 11:30am - 11:45am LIMITS OF ELECTROFISHING AS A TOOL FOR MULTISPECIES FISHWAY EVALUATION <u>David Nijssen</u> , Torsten Ode, Damien Sonny, Daniel Schmidt, Nicole Scheiffhacken, Matthias Scholten, Cornelia Schütz 11:45am - 12:00pm BRIDGING THE CONNECTIVITY CONUNDRUM: A REVIEW OF FISH SORTING TECHNOLOGIES FOR SELECTIVE FISH PASSAGE <u>Muhammad Usama Ashraf</u> , Daniel P. Zielinski, Reid G. Swanson, Andrew M. Muir, Robert L. McLaughlin, Thomas C. Pratt, R. Andrew Goodwin, Aline J. Cotel, Peter J. Hrodey, C. Michael Wagner,	S17-AM1.2: C1 - Peaking regimes and environmental flows Location: Salle 1 - Garden 4A Chair: Christine Weber This session is sponsored by HydroQuébec 11:15am - 11:30am ASSESSING DAM RELEASE RATES FROM JENNINGS RANDOLPH DAM ON THE NORTH BRANCH POTOMAC RIVER IN MARYLAND AND WEST VIRGINIA, USA: IMPLICATIONS FOR POPULATIONS OF BROWN TROUT (SALMO TRUTTA) <u>Benjamin Dye</u> , Jonathan Czuba 11:30am - 11:45am IMAGING ORGANISM DRIFT CONTINUOUSLY AT 1-SECOND RESOLUTION: A 10 WEEK CASE STUDY <u>Joël R. Wittmann</u> , Levi Graf, Vittorio Ferrero, Lea Kuster, Anaïs Wigger, Giulia Zambotto, Frédéric de Schaetzen, Sandro Giacomuzzi, Roman Stocker, Luiz G. M. Silva 11:45am - 12:00pm ASSESSING ECOLOGICAL GAINS OF HYDROPEAKING MITIGATION MEASURES IN A CLIMATE CHANGE CONTEXT <u>Véronique Gouraud</u> , Fabio Tarena, Agnès Barillier, Julien Di Pane, Marie Lamour, Atle Harby, Hervé Capra, Leah Beche, Nicolas Lamouroux 12:00pm - 12:15pm	S17-AM1.3: C4 - Sediment transport and connectivity Location: Salle 2 - Garden 4B Chair: David Hurther Chair: Christophe Reymond This session is sponsored by HydroQuébec 11:15am - 11:30am SUSPENDED SEDIMENT TRANSPORT DURING EXPERIMENTAL FLOODS IN THE SPÖL: MONITORING AND POTENTIAL DOWNSTREAM CONSEQUENCES Sophia Demmel, <u>Ludovico Agostini</u> , Jessica Droujko, Peter Molnar 11:30am - 11:45am MODELLING BRAIDED RIVERS IN DATA-SCARCE REGIONS: DATA COLLECTION AND MODEL SETUP <u>Hannah Schwedhelm</u> , Hannah Schmid, Antonia Dallmeier, Nils Rüther 11:45am - 12:00pm IMPACT OF FLOODS ON SEDIMENT DYNAMICS: LABORATORY-SCALE EXPERIMENTS TO ENHANCE SPAWNING HABITAT RESTORATION Florent Grattepanche, Guillaume Gomit, Damien Calluaud, Dominique Courret, Pierre Sagnes 12:00pm - 12:15pm	S17-AM1.4: E3 - AI approaches Location: Salle 3 - Garden 4C Chair: Paolo Perona Chair: Yiwei Guo 11:15am - 11:30am AN AI-BASED EULERIAN-LAGRANGIAN MODEL FOR FISH MOVEMENT NEAR A FISHWAY ENTRANCE Abbas El Hachem, Martin Henning, <u>Christian Noß</u> 11:30am - 11:45am ANOMALY DETECTION AND AUTOMATIC DATA CORRECTION FOR HYDROMETRIC STATIONS Pasha Piroozmand, <u>Davood Farshi</u> 11:45am - 12:00pm RIVER.FEATURES: AN OPEN ANNOTATED UAV IMAGE DATASET FOR RIVER MONITORING AND MACHINE LEARNING <u>Tulio Soto Parra</u> , Luka Čehovin Zajc 12:00pm - 12:15pm IDENTIFICATION OF INLAND WETLAND BIODIVERSITY DRIVERS USING EXPLAINABLE ARTIFICIAL INTELLIGENCE AND SATELLITE-BASED REMOTE SENSING DATABASE <u>Seunghyun Hwang</u> , Jeemi Sung,	S17-AM1.5: A4 - Ecohydraulics Across Space and Time: from habitats to catchments, instants to decades, and individuals to communities Location: Salle 4 - Garden 5A Chair: Nico Bätz Chair: Sara Bonetti 11:15am - 11:30am EXTENDING ECO-HYDRAULICS INTO ECO-EVO-HYDRAULICS THROUGH HYDRO-EVOLUTIONARY FEEDBACKS <u>Xiatong Cai</u> , Colin D. Rennie, Simon Blanchet, Daniel I. Bolnick, Federico C.F. Calboli, Io S. Deflem, Bart Hellemans, Andrew P. Hendry, Joke De Meester, Abdolmajid Mohammadian, Filip A.M. Volckaert, Patrick Willems, Joost A.M. Raeymaekers 11:30am - 11:45am FROM CROSS-SECTION AVERAGES TO IMMERSIVE, AGENT-BASED COMPUTATIONAL ECOHYDRAULICS <u>Sebastian Schwindt</u> , Benjamin Kemmler, Federica Scolari, Gregory B. Pasternack 11:45am - 12:00pm HOW ECOHYDRAULIC PRINCIPLES AND TOOLS CONTRIBUTES TO SUSTAINABLE HYDROPOWER REFURBISHMENT <u>Atle Harby</u> , Mauro Carolli, Markus Peter Foerst, Sahra Naima Sabil, Håkon Sundt 12:00pm - 12:15pm WAKE TURBULENCE AT LOW SUBMERGENCE: INTEGRAL LENGTH SCALES AND LINKS TO FISH BODY SIZE

	Jesse Eickholt, Claudio Comoglio, Jonathan D. Bolland 12:00pm - 12:15pm FLOW DYNAMICS AND HYDRAULIC EFFICIENCY IN FISHWAY BED CONFIGURATIONS <u>Sameh Kantoush</u>, Hossein Sohrabzadeh-Anzani, Sohei Kobayashi 12:15pm - 12:30pm HEAD LOSSES ON FISH-FRIENDLY ANGLED BAR RACKS SUBJECTED TO CLOGGING: AN EXPERIMENTAL STUDY <u>Guillaume Bon</u>, Baba Mba-Assoumou, Ludovic Chatellier, Laurent David	FROM MULTI-SCALE MONITORING TO 2D HYDRO-THERMAL MODELING: ASSESSING SEASONAL SPATIO-TEMPORAL TEMPERATURE VARIABILITY IN A REGULATED RIVER <u>Nicolas Francisco Gamarra</u>, Roser Casas-Mulet, Nils R��ther 12:15pm - 12:30pm PHYSIOLOGICAL RESPONSES OF IBERIAN RIPARIAN WOODY SPECIES TO HYDROPOWER OPERATION: A STABLE ISOTOPE ASSESSMENT IN A CONTROLLED FLUME EXPERIMENT Ignacio Aznar, Alejandro Baladr��n, ��lvaro Sordo-Ward, <u>Mar��a D. Bejarano</u>	LAGRANGIAN MODELING OF PASSIVE PARTICLE TRANSPORT IN ANASTOMOSING RIVERS: LINKING CHANNEL GEOMETRY AND SEDIMENT PROCESSES USING RANDOM WALK ALGORITHMS – A CASE STUDY OF THE UPPER NAREW RIVER <u>Adam Kiczko</u>, Adam Krajewski, Pawe�� Marcinkowski 12:15pm - 12:30pm NUMERICAL ANALYSIS OF MORPHOLOGICAL RESPONSES TO FLOOD EVENTS IN THE GEUM RIVER, KOREA <u>Chang-Lae Jang</u>, Tae Hye Baek	Seoyeong Ku, Jongjin Baik, Changhyun Jun 12:15pm - 12:30pm MONOCULAR FISH LENGTH ESTIMATION FOR VIDEO TUNNELS IN EUROPEAN RIVERS <u>Aleksandr Ivanov</u>, Alexandra Kolosova, Jeffrey Andrew Tuhtan, Bernd Mockenhaupt, Nicole Scheifhacken	<u>Dan Nilsson</u>, Anders Andersson, Sofia Larsson, Robin Andersson, Mats Billstein 12:15pm - 12:30pm MESOHYDRAULICS: MODELLING HABITAT SUITABILITY ON THE ODER RIVER AT THE MESOSCALE Piotr Parasiewicz, <u>Jura Sabolek</u>, Adam Kiczko, Dorota Miroslav-S��wi��tek, Jan W��jtcowicz
12:30pm - 2:00pm	Flow Science Lunch: Lunch sponsored by Flow Science - FLOW3D Location: FoodLab				
2:00pm - 2:45pm	ISE PT2: Guido Zolezzi - Ecohydraulics and river morphodynamics: an expanding research interface Location: Auditorium C & Foyer Cloud Chair: Giulio Calvani Chair: David Florian Vetsch				
2:45pm - 3:15pm	H&E Coffee break: Coffee Break sponsored by HELVEOS & EFIB Location: Foyer Garden 5				
3:15pm - 4:45pm	S17-PM1.1: A1 - Interactions between flow, natural elements, and structures Location: Auditorium C & Foyer Cloud Chair: Paul Demuth 3:15pm - 3:30pm IN-STREAM MESOHABITAT MODELLING BASED ON HYDROACOUSTIC DATA AND HIERARCHICAL CLUSTERING <u>Kerstin Schlobies</u>, Erik van Rooijen, Davide Vanzo, Eliisa Selina Lotsari 3:30pm - 3:45pm LEAF-TO-STEM FLEXIBILITY RATIO MODULATES FLOW IMPEDANCE BY FOLIAGE <u>Rufus E. Dickinson</u>, Kazumasa Matsumoto, Timothy I. Marjoribanks, Michio Sanjou, Christopher J. Keylock, Takaaki Okamoto 3:45pm - 4:00pm QUANTIFYING LATERAL BEDLOAD TRANSPORT FROM	S17-PM1.2: C1 - Peaking regimes and environmental flows Location: Salle 1 - Garden 4A Chair: Nico B��tz Chair: Kate Mathers This session is sponsored by HydroQu��bec 3:15pm - 3:30pm E-FLOW GUIDELINE FOR HYDROPOWER PROJECTS IN THE ROYAL KINGDOM OF BHUTAN, ECOHYDRAULIC ELEMENTS Matthias Schneider, Klaus Jorde, Armin Peter, <u>Ianina Kopecki</u>, Chhimi Dorji, Tenzin Khorlo 3:30pm - 3:45pm DISCHARGE MODIFICATIONS BY FLOOD DAMPENING FROM HYDROPOWER RESERVOIRS: SURNA CASE STUDY <u>Sahra Naima Sabil</u>, Keilly Bulle Arias, Tor Haakon Bakken, Knut Alfredden 3:45pm - 4:00pm HYDRAULIC AND ECOLOGICAL CHARACTERIZATION OF TWO ADJACENT	S17-PM1.3: B1 - Urban, suburban, and periurban streams Location: Salle 2 - Garden 4B Chair: Jonathan Czuba 3:15pm - 3:30pm WATER QUALITY DYNAMICS IN COMBINED WASTEWATER-STORMWATER CHANNELS AND A TIDAL RECEIVING RIVER: A 1D-2D MODELLING STUDY OF KOLKATA, INDIA Ronak Prakash Das, Manas Kumar Das, Bibhas Chandra Barman, <u>Dhrubajyoti Sen</u> 3:30pm - 3:45pm SOLUTIONS TO FLOODING OF THE ESTEPONA RIVER IN THE URBAN CENTER OF BAKIO (BIZKAIA, SPAIN) <u>Paola Sangalli</u>, Sergio Sangalli, Guillermo Tard��o 3:45pm - 4:00pm SOIL AND WATER BIOENGINEERING AS RIVER HEAT	S17-PM1.4: C3 - Bioengineering approaches and Nature-Based Solutions (river) Location: Salle 3 - Garden 4C Chair: Isabella Schalko This session is sponsored by HydroQu��bec 3:15pm - 3:30pm MODERNIZATION AND LEGACY: ECOHYDRAULIC EVOLUTION OF THE BEAUHARNOIS-LES C��DRES COMPLEX, BUILT LONG BEFORE TODAY'S ENVIRONMENTAL REQUIREMENTS Carola Alfaro, Karen NG, <u>Nicolas Sadoch</u>, Jean-Christophe Guay, Simon Langlois, Yannick Chevrier-B��dard, Parisa Mehrabi Jirandehi 3:30pm - 3:45pm HYDRAULICS OF MACRO-ROUGHNESS ELEMENTS FOR RIVER RESTORATION: LABORATORY EXPERIMENTS	S17-PM1.5: A3 - Ecomorphodynamics: linking flow, sediment and biota, instabilities, and patterns' formation Location: Salle 4 - Garden 5A Chair: Francesco Caponi Chair: Romain Van Mol 3:15pm - 3:30pm DEVELOPMENT PATTERNS OF MANGROVES IN ARTIFICIAL COASTAL ZONES AND THEIR IMPACTS ON INVERTEBRATE POPULATIONS <u>Bangjie Sun</u>, Zhaoyin Wang, Mengzhen Xu, Sabrina Yanan Jiang, Yi Zhou 3:30pm - 3:45pm A MULTI-STAGE DISCHARGE FRAMEWORK FOR DIAGNOSING SEDIMENT TRANSPORT REGIMES AND BED DISTURBANCE IN DAM-INFLUENCED RIVER REACHES USING FIXED-BED 2D HYDRODYNAMIC MODELLING <u>Morihiro Harada</u> 3:45pm - 4:00pm NUMERICAL MODELLING OF

	BATHYMETRIC SCANS: EXPERIMENTS WITH A YAWED SUBMERGED VANE ARRAY Mirko Musa, Chien-Yung Tseng, Jiyong Lee, Michele Guala 4:00pm - 4:15pm ENVIRONMENTAL AND HYDRAULIC EFFECTS OF PILOT RIVERBANK PROTECTION WORKS ON THE MANU RIVER: A DECADAL POST-PROJECT EVALUATION Kazumitsu Muraoka, Minako Matsukawa 4:15pm - 4:30pm LOCAL SCOUR AROUND A SINGLE PIER ON A TRANSVERSALLY INCLINED BED Gökçen Bombar, Firat Gumgum, Antonio Heleno Cardoso 4:30pm - 4:45pm EFFECTS OF A HIGH-HEAD HYDROPOWER SYSTEM ON THE HYDROLOGY AND PHYSICAL ENVIRONMENT IN A RIVER SYSTEM Knut Tore Alfredsen	RIVER REACHES WITH DIFFERENT REGULATED STREAMFLOW Silvia Quadroni, Livia Servanzi, Paolo Espa 4:00pm - 4:15pm ECOLOGICAL FLOWS AS A DRIVER FOR FUTURE HYDROPOWER DEVELOPMENT Giovanni Negro, Sara Viale, Alessandro Guglielmetto, Paolo Vezza 4:15pm - 4:30pm APPLICATION OF THE FUNCTIONAL FLOWS APPROACH IN A HIGHLY REGULATED MEDITERRANEAN BASIN (JÚCAR RIVER BASIN, SPAIN) Francisco Martínez-Capel, Ted E. Grantham, Frank Santiago-Bazan, Hector Macian-Sorribes, Rafael Muñoz-Mas, Manuel A. Pulido-Velazquez 4:30pm - 4:45pm EVALUATING YOUNG-OF-THE-YEAR FISH RESPONSE TO A HYDROPEAKING MITIGATION MEASURE TROUGH A DIVERSION HYDROPOWER PLANT Kevin Merl, Bernhard Zeiringer, Daniel Hayes, Patrick Holzapfel, Christoph Hauer, Martin Schletterer, Stefan Schmutz, Franz Greimel	PERIOD MITIGATION IN AN URBAN STREAM Helene Mueller, Anna Ludwiczek, Magdalena von der Thannen, Hans Peter Rauch 4:00pm - 4:15pm HYDRO-ECOLOGICAL PERFORMANCE OF THE ARVE-DRIZE FISHWAY: ASSESSING SEDIMENT CLOGGING AND SELF-SCOURING PROCESSES Nicolas Duparc, Anthony Garcia, Nicolas Andreini, Davide Ceresetti 4:15pm - 4:30pm THE SHIFTING SANDS OF GRAVEL STREAMBEDS: CYCLIC TRENDS IN EMBEDDEDNESS FLUCTUATION IN AN URBANIZED STREAM Justus Hargett, Jon Czuba	Simone Speltoni, Volker Weitbrecht, Robert M. Boes, Isabella Schalko 3:45pm - 4:00pm SOIL AND WATER BIOENGINEERING FOR RIVERBANK STABILIZATION: IMPLEMENTING MORE ROBUST STRUCTURES BASED ON A BETTER UNDERSTANDING OF FAILURE PROCESSES. Solange Leblois, Guillaume Piton, André Evette 4:00pm - 4:15pm SMALL SCALE EXPERIMENTAL INVESTIGATION OF LARGE WOOD REGULATION EFFECTS DUE TO ARTIFICIAL LOG JAMS AND BEAVER DAMS ANALOGS Zoé Deltombe, Guillaume Piton, Natacha Fructus, Samuel Pinjon, Laurent Borgniet, André Evette 4:15pm - 4:30pm MECHANICS OF ASYMMETRIC AND SYMMETRIC ROOTS UNDER PULL-OUT FORCE Junjia Kang, Giulio Calvani, Giovanni De Cesare, Paolo Perona 4:30pm - 4:45pm REHABILITATING MACROPHYTE COMMUNITIES IN REGULATED LAKES AND RESERVOIRS USING A LAKE-IN-RESERVOIR Linda Røjning, Åsa Widén, Kerstin Holmgren, Johan Östergren	BIOMORPHODYNAMICS: A COMPARISON OF EXISTING CLOSURES FOR BEDLOAD TRANSPORT IN VEGETATED FLOWS Antonia Dallmeier, Francesco Caponi, Davide Vanzo, Hannah Schwedhelm, Rebekka Kopmann, Nils Rütther 4:00pm - 4:15pm CURRENT FLOW AND RIVERBED CONDITIONS FOR BENTHIC INVERTEBRATES AND EFFECTS OF SEDIMENT REPLENISHMENT ON ECOLOGICAL RESTORATION IN THE UJI RIVER, KYOTO, JAPAN Sohei Kobayashi, Boyuan Cai, Sameh Kantoush 4:15pm - 4:30pm ANALYSES OF RIPARIAN VEGETATION ESTABLISHMENT DUE TO FLOW REGIME CHANGES FOCUSED ON VEGETATION RECRUITMENT AND FLOOD RISK – A CASE OF THE UPPER-MIDDLE NAKDONG-GANG RIVER IN KOREA Hyo Seop Woo, Chang-Rae Jang, Sung-Uk Choi 4:30pm - 4:45pm PARTIALLY VEGETATED MEANDERING FLUME: PRELIMINARY RESULTS ON FLOW VELOCITY DISTRIBUTION IN THE BEND APEX AREA Donatella Termini
4:45pm - 5:30pm	ISE PT3: Piotr Parasiewicz - From micro to macro: applying the principles of habitat modelling across the scales Location: Auditorium C & Foyer Cloud Chair: Giovanni De Cesare Chair: Azin Amini				
5:30pm - 6:30pm	DEI: Diversity, Equity and Inclusion session meeting Location: Salle 1 - Garden 4A Chair: Michael Nones Chair: Mónica Basilio Hazas	JoE meeting: Journal of Ecohydraulics meeting (Editorial board meeting) Location: Bureau Garden G	S17-PS: Poster session Location: Foyer Garden 5		
6:30pm - 9:00pm	Hydro-Québec welcome apero: Welcome ceremony reception sponsored by HydroQuébec Location: FoodLab				

Date: Tuesday, 18/Aug/2026

8:00am - 7:00pm	EA2: Art meets Ecohydraulics Location: Foyer garden	Individual meetings T1: Rooms available for individual meetings between delegates Location: Bureau Garden G	Individual meetings T2: Rooms available for individual meetings between delegates Location: Bureau Garden H	PE2: Poster Exhibition Location: Foyer Garden 5	
8:45am - 9:30am	ISE PT4: Roman Stocker - Movement behavior in ecohydraulics, from bacteria to fish Location: Plénière principale Chair: Paolo Perona Chair: Sara Bonetti				
9:30am - 10:00am	H & H morning coffee break: Coffee Break sponsored by HOLINGER and HYDRIQUE Location: Foyer Garden 5				
10:00am - 11:30am	S18-AM1.1: C2 - Fish passage: design, modelling and assessment Location: Plénière principale Chair: Falko Wagner Chair: Sameh Kantoush 10:00am - 10:15am FROM FLUME TO FIELD: FULL-SCALE VALIDATION OF A MODIFIED BAR RACK FISH-GUIDANCE SYSTEM Halvor Kjærås , Henrik Baktoft, Ana T. Silva, Karl Ø. Gjelland, Finn Økland, Mohammadreza Maddahi, Ismail Albayrak, Leif Lia, Robert M. Boes, Torbjørn Forseth 10:15am - 10:30am DIFFERENTIAL PASSAGE SUCCESS AND FLOW CUES: UPSTREAM MIGRATION OF EUROPEAN EEL AT A TURBINE-WEIR-FISH PASSAGE COMPLEX ON THE DIJLE RIVER, BELGIUM Stijn Bruneel, Lore Vandamme, Pieterjan Verhelst, David Buysse, Ine Pauwels, Johan Coeck, Kaat Thienpont , Sam De Visscher 10:30am - 10:45am FISH PASSAGE SOLUTIONS IN HIGHLY REGULATED CATCHMENTS: AN INDIVIDUAL-BASED FRAMEWORK FOR ADAPTIVE WATER MANAGEMENT IN FLANDERS	S18-AM1.2: A1 - Interactions between flow, natural elements, and structures Location: Salle 1 - Garden 4A Chair: Mirko Musa Chair: Antonia Dallmeier 10:00am - 10:15am THREE DIMENSIONAL NUMERICAL SIMULATION OF TURBULENT FLOW WITH BRIDGE OVERTOPPING Yongjun Kwon , Hyung-Suk Kim 10:15am - 10:30am SCALE RESOLVED NUMERICAL SIMULATIONS OF A NOVEL EDDY BASED FISH GUIDANCE SYSTEM (EGS) Eric Lillberg, Mikaela Larsson , David Florian Vetsch, Kamal Prasad Pandey, Bjørn Winther Solemslie, Ismail Albayrak, Armin Peter, Torbjørn Forseth, Ole Gunnar Dahlhaug, Robert M Boes, Ana T. Silva 10:30am - 10:45am IMPROVING FISH RECEPTION CONDITIONS AT THE OUTLET OF DOWNSTREAM MIGRATION DEVICES AND SPILLWAYS USING FIELD MEASUREMENTS AND URANS-VOF MODELING Antoine Ecorce , Dominique Courret, Ludovic Chatellier, Laurent David 10:45am - 11:00am RIVER RESTORATION: THE ROLE OF HABITAT HETEROGENEITY AND FLOOD REFUGIA Chantal Mariette Hischer , Nico Bätz, Cristina Rachelly, Paul Demuth, Volker Weitbrecht, David Florian Vetsch, Christian Dinkel, Christine Weber 11:00am - 11:15am FIELD-SCALE FLOW CONDITIONS AROUND	S18-AM1.3: B3 - Ecohydraulics meets landscape architecture Location: Salle 2 - Garden 4B Chair: Paolo Perona Chair: Ben Gitai 10:00am - 10:15am RENATURATION OF THE DRIZE AND AIRE RIVERS IN GENEVA'S PAV DISTRICT: AN INTEGRATED APPROACH TO URBAN ECOHYDRAULICS AND LANDSCAPE ARCHITECTURE Pierre Bourqui, Marina Launay , Marco Rampini, Yves Bach, François Gerber, Kim Ehrensperger 10:15am - 10:30am DESIGNING THE WATER MACHINE: INTERDISCIPLINARY APPROACHES TO THE DENDER VALLEY Qinyi Zhang, Nathan Fredrick 10:30am - 10:45am DESIGNING A TECHNATURE: INTEGRATED WATER SYSTEM IN THE FUTURE RINGPARKS IN ANTWERP Qinyi Zhang, Nathan Fredrick 10:45am - 11:00am LA MARJAL AND GRØNNINGEN BISPEPARKEN FLOODABLE PARKS, TWO DIFFERENT DESIGNS, ONE SINGLE AIM Silvia Martin Muñoz 11:00am - 11:15am ECOHYDRAULIC ASSESSMENT OF WATERSHED HYDROLOGICAL SERVICES USING THE VIC MODEL: A	S18-AM1.4: E1 - Remote sensing Location: Salle 3 - Garden 4C Chair: Jonathan Czuba Chair: Sarah Broos 10:00am - 10:15am USING UNMANNED AERIAL SYSTEMS FOR MEASUREMENTS OF WAVES, NEAR-SURFACE CURRENTS AND BATHYMETRY IN COASTAL ENVIRONMENTS Kuang-An Chang , Vivek Bheeroo, Mu-Jung Lee, Ting-Chu Wu, Alec Torres-Freyermuth, Scott Socolofsky 10:15am - 10:30am SPATIAL DISTRIBUTION OF THE PROBABILITY OF PRYMNESIUM PARVUM OCCURRENCE IN THE ODER RIVER Katarzyna Suska, Dominik Kopeć, Janek Niedzielko, Jakub Charyton, Karol Ławniczak, Agnieszka Napiórkowska-Krzebietke, Piotr Parasiewicz 10:30am - 10:45am DECADAL RIVER TEMPERATURE DYNAMICS IN A MEANDERING SYSTEM Kaveh Ghahraman, Michael Nones 10:45am - 11:00am A REMOTE AND DATA-DRIVEN APPROACH FOR IDENTIFYING POTENTIAL REPLACEMENT WETLANDS USING SATELLITE AND REANALYSIS DATA: A CASE STUDY OF THE KOREAN PENINSULA Jeemi Sung , Seunghyun Hwang, Seoyeong Ku, Jongjin Baik, Changhyun Jun	S18-AM1.5: A4 - Ecohydraulics Across Space and Time: from habitats to catchments, instants to decades, and individuals to communities Location: Salle 4 - Garden 5A Chair: J. Bastian Höller Chair: Xiatong Cai 10:00am - 10:15am ZOOPLANKTON MODULE INDICATES TOP-DOWN EFFECTS ON EUTROPHICATION: IMPLICATIONS FOR LAKE RESTORATION BY BIOMANIPULATION Chen Zhang, Ruolan Yu 10:15am - 10:30am REFINING THE FLOW-T MESOSCALE MODEL FOR RIVER MACROINVERTEBRATE COMMUNITIES Beatrice Pinna , Alex Laini, Gemma Burgazzi, Simone Guareschi, Paolo Vezza 10:30am - 10:45am A TOOLBOX FOR ASSESSING PATCH-SCALE HABITAT DYNAMICS FOR MACROINVERTEBRATES IN FLOW-ALTERED RIVERS Aude Lecrivain , Giovanni de Cesare, Christine Weber, Nico Bätz 10:45am - 11:00am IDENTIFYING FISH MACROHABITATS IN EUROPEAN RIVERS Geetika Chauhan, Kamila Belka , Piotr Parasiewicz 11:00am - 11:15am NEW TOOLS AND DATABASES FOR RIVER MESOHABITAT MODELING Paolo Vezza, Giovanni Negro, David Farò, Beatrice Pinna, Simone Forte, Guido Zolezzi 11:15am - 11:30am INTEGRATED FUNCTIONAL HABITAT AND FISH POPULATION DYNAMICS MODELLING FOR IMPROVED RIVER RESTORATION

	<u>Hanna Jaspaert</u>, Pieterjan Verhelst, Jan Baetens 10:45am - 11:00am ASSESSMENT OF ATTRACTION FLOW EFFECT ON FISHWAY ENTRANCE FLOWS: A CASE STUDY FROM SWITZERLAND <u>Ismail Albayrak</u>, Andris Wyss, Adriano Lais, Mohammadreza Maddahi, Alfredo Scherngell, Roland Sutter, Boes Rober M. 11:00am - 11:15am FROM REGULATION TO REALITY: ECOHYDRAULIC CHALLENGES OF FISH PASSAGE DESIGN FOR SMALL HYDROPOWER IN ALPINE AND CENTRAL EUROPEAN RIVERS Alex Balzarini, Mathias Hochschwazer, <u>Walter Gostner</u> 11:15am - 11:30am 3D-NUMERICAL INVESTIGATION OF FISH PASSAGE STRUCTURE <u>Robert Feurich</u>, Bernhard Mayrhofer, Heiko Tebben	ENGINEERED LOGJAMS: INSIGHTS FROM LARGE-SCALE PIV Felix Broß, <u>Isabella Schalko</u> 11:15am - 11:30am INSIGHTS INTO THE SETTLING AND INTERACTION BEHAVIOUR OF SPHERICAL MICROPLASTICS Mohammadmehdi Ramezani, Siamak Seyfi, Camillo De Castro, <u>Shooka Karimpour</u>	CASE STUDY OF THE LUAN RIVER BASIN, NORTH CHINA Yuze Yang, <u>Ruonan Li</u>, Hua Zheng 11:15am - 11:30am MAPPING 360° TRANSITIONAL LANDSCAPES: HYDRAULICS FOR ECOLOGICAL ECOSYSTEM CONNECTIVITY IN THE ORBE-CHAVORNAY REGION <u>Ben Gitai</u>, Chiara Lombardi Dellamonica, Beate Jessel	11:00am - 11:15am AUTOMATING DTM BATHYMETRIC CORRECTION FROM GAUGING STATION DATA: A METHODOLOGICAL ASSESSMENT <u>Elisa Caccamo</u>, Carlo Vincenzo Camporeale 11:15am - 11:30am EVALUATION OF A RIVER-SCALE FLOW MODEL WITH LIDAR BATHYMETRY FOR SALMONID CONSERVATION IN THE HEDDØLA RIVER, SOUTHWESTERN NORWAY <u>Arnaud Weber</u>, Knut Alfredsen, Morten Stickler, Giovanni De Cesare	<u>David Farò</u>, Christian Wolter
11:30am - 12:30pm	Journal of Ecohydraulics: JoE - Vision meeting for All Location: Plénière principale				
11:30am - 2:00pm	S18-PS: Poster session Location: Foyer Garden Patio				
12:30pm - 2:00pm	WSP Lunch: Lunch sponsored by WSP Location: FoodLab				
2:00pm - 2:45pm	ISE PT5: Gregory Pasternack - Ecohydraulics can contribute to a more equitable and resilient civilization Location: Plénière principale Chair: Mirko Musa Chair: Giulio Calvani				
2:45pm - 3:15pm	K & L afternoon coffee break: Coffee break sponsored by KWO and Lombardi Location: Foyer Garden 5				
3:15pm - 4:30pm	S18-PM1.1: C2 - Fish passage: design, modelling, and assessment Location: Plénière principale Chair: David Florian Vetsch 3:15pm - 3:30pm STATUS OF UPSTREAM	S18-PM1.2: A2 - Organism-flow interactions: movement, transport, and sensing Location: Salle 1 - Garden 4A Chair: Davide Vettori 3:15pm - 3:30pm A PREDICTIVE MODEL FOR ASSESSING FISH LARVAL DRIFT UNDER VARIABLE	S18-PM1.3: A5 - Global change impact, biogeochemical cycles, biodiversity losses, and ecosystem resilience Location: Salle 2 - Garden 4B Chair: Giuditta Trinci 3:15pm - 3:30pm INFLUENCE OF GLOBAL WARMING ON URBAN	S18-PM1.4: E2 - Real time monitoring Location: Salle 3 - Garden 4C Chair: Michael Nones 3:15pm - 3:30pm THE IMPACT OF HYDROPOWER ON DEEP RIVER HABITAT HETEROGENEITY	S18-PM1.5: B4 - Governance, socio-environmental benefits, and areas of conflict Location: Salle 4 - Garden 5A Chair: Christine Weber Chair: Francesca Padoan 3:15pm - 3:30pm WHO GIVES AND WHO GETS ROOM FOR THE RIVER? NEGOTIATING THE FRONTIER OF

FISHWAYS IN NORWAY <u>Sebastian Franz Stranzl</u>, Ana Margarida Ferreira Teixeira da Silva, Ulrich Pulg	HYDROLOGICAL CONDITIONS Wiktorcia Cudna, <u>Piotr Parasiewicz</u>	STORMWATER QUALITY: IMPLICATION FOR EFFECTIVE MANAGEMENT <u>An Liu</u>, Buddhi Wijesiri, Ashantha Goonetilleke	<u>Luis Philipp Habersetzer</u>, Luiz G. M. Silva, Roman Stocker, Jakob Brodersen	FLOOD RISK AND RIVERBANK INFORMAL SETTLEMENTS IN KATHMANDU'S ECOLOGICAL URBAN RENEWAL <u>Alejandro Gomez Tejera</u>
3:30pm - 3:45pm DOWNSTREAM MOVEMENT OF JUVENILE ATLANTIC SALMON (Salmo salar) IN NATURE-LIKE FISHWAYS Md. Sajjad Hossain Tusher, Christopher Schuckers, Md. Shoriful Islam, Tom A. Langen, Haitham Ghamry, Christos Katopodis, <u>Abul BM Baki</u>	3:30pm - 3:45pm THE EFFECT OF DIFFERENT FLOW PULSES ON THE BIOMASS PERIPHYTON IN AN EXPERIMENTAL FLUME LongFei Sun, LeiXiang Wu, <u>Wei Huang</u>	3:30pm - 3:45pm WHEN THE RIVER MEETS ENERGY DEMAND: BALANCING ENERGY, CLIMATE, AND NATURE <u>Markus Foerst</u>, Atle Harby	3:30pm - 3:45pm A NOVEL SENSOR-BASED APPROACH TO QUANTIFY FISH PASSAGE DELAY DYNAMICS IN ARCHIMEDEAN SCREWS. <u>Sarah Broos</u>, Ine S. Pauwels, David Buysse, Stijn Bruneel, Tom De Mulder, Gert Toming, Jeffrey A. Tuhtan	3:30pm - 3:45pm A LIGHTWEIGHT THERMAL MODELLING APPROACH FOR EMBEDDING WATER QUALITY IN MULTI-OBJECTIVE RESERVOIR OPERATION <u>Maria Elena Alfano</u>, Marta Zaniolo, Davide Poggi, Roberto Bosio, Laura Savoldi
3:45pm - 4:00pm DOWNSTREAM ROUTE SELECTION OF ATLANTIC SALMON AT HYDROPOWER FACILITIES EXPLAINED BY HYDRAULIC AND SITE CONFIGURATION METRICS <u>Emilie Zimmer</u>, Sylvie Tomanova, Laurence Tissot, Dominique Courret, Romain Roy, Thierry Lagarrigue, Aurélien Frey, Jérémy Beguin, Marc Lerquet, Dylan Colson, Damien Sonny, Michaël Ovidio	3:45pm - 4:00pm THE PATCH SCALE MATTERS: HABITAT-SPECIFIC RESPONSE OF MACROINVERTEBRATE DRIFT TO FLOW PULSES Nathalie Friese, Kate L. Mathers, Christine Weber, Diego Tonolla, <u>Nico Bätz</u>	3:45pm - 4:00pm ASSESSMENT OF ECOSYSTEM REGULATION ON WATERSHED ECOHYDRAULIC VARIABLES UNDER CLIMATE AND LAND USE CHANGE IN SOUTHERN CHINA Jianxiang Xiong, <u>Lingqiao Kong</u>, Zhiyun Ouyang	3:45pm - 4:00pm RETRACE: A MODULAR FRAMEWORK FOR EVENT-BASED DISCHARGE AND SUSPENDED SEDIMENT ANALYSIS <u>Ludovico Agostini</u>, Peter Molnar	3:45pm - 4:00pm BUILDING POLISH DATABASE OF FREE-FLOWING RIVERS TOWARDS PRIORITIZATION OF RESTORATION EFFORTS <u>Kamila Belka</u>, Michał Brach, Geetika Chauhan, Mariusz Gąsior, Szymon Jusik, Krzysztof Karpio, Paweł Konecki, Adam Nadolny, Włodzimierz Natorf, Przemysław Nawrocki, Sławomir Bury, Piotr Parasiewicz
4:00pm - 4:15pm INNOVATIVE BYPASS SYSTEM: HYDRAULIC PERFORMANCE AND ATLANTIC SALMON (Salmo salar) PASSAGE EFFICIENCY <u>Yuhao Yan</u>, David Aldvén, Stephanie Müller, Luiz G. M. Silva, Patrik Andreasson, David F. Vetsch, Seline Frei, Eric Lillberg, Ana T. Silva, Robert M. Boes, Ismail Albayrak	4:00pm - 4:15pm HYDRODYNAMIC THRESHOLDS FOR RESUSPENSION OF DRIFTING FISH EGGS IN BOTTOM VORTEX STRUCTURES Yiheng Gao, <u>Rui Han</u>, Hongyi Yang, Miaoran Fu	4:00pm - 4:15pm TOTAL DISSOLVED GAS IN NEOTROPICAL SYSTEMS AND ITS EFFECTS ON THE FISH FAUNA Lorena B Nogueira, Higor A A G Vieira, Breno A Magalhães, Dieimys S Ribeiro, Liandro Rosa, Juliano Mafra, Guilherme Ferraz, Andrey L F de Castro, Carlos B Martinez, <u>Luiz G M Silva</u>	4:00pm - 4:15pm GAS SUPERSATURATION: FROM RISK ASSESSMENTS TO FIELD MONITORING IN NORWAY AND SWEDEN <u>Ida Vartia</u>, Ulrich Pulg, Martin Enqvist, Rowan Hamper, Sebastian Stranzl	4:00pm - 4:15pm PROCESSES AND INTERNATIONAL COLLABORATION ON SEDIMENT MANAGEMENT IN THE RHÔNE : TOWARD SUSTAINABLE SEDIMENT CONTINUITY <u>Charlotte Girard</u>, Franck Pressiat, Marion Cherrak, Seydina Diouf, Laurent Pinet
4:15pm - 4:30pm DOWNSTREAM FISH PASSAGE EVALUATION USING BAROTRAUMA DETECTION SENSORS: COMPARATIVE	4:15pm - 4:30pm SEASONAL, NOCTURNAL AND SPATIAL DYNAMICS OF ICHTHYOPLANKTON DRIFT NEAR THE POŁANIEC POWER PLANT, VISTULA RIVER, POLAND <u>Wojciech Prekurat</u>, Piotr Parasiewicz	4:15pm - 4:30pm HABITAT MODELLING OF FISH COMMUNITIES IN THE ODER RIVER: APPLICATION OF THE MESOHABSIM MODEL UNDER ENVIRONMENTAL STRESS CONDITIONS <u>Wiktorcia Cudna</u>, Katarzyna Suska, Piotr Parasiewicz	4:15pm - 4:30pm LOW-COST SENSORS IN ALPINE HEADWATERS : FONCTIONALITY AND PERFORMANCE <u>Pascal Pirlot</u>, Nils Fikentscher, Markus Noack	4:15pm - 4:30pm THE FUTURE OF ECOHYDRAULICS: A COMMUNITY PERSPECTIVE <u>Mónica Basilio Hazas</u>, Joël Wittmann, Davide Vanzo, Jan de Keyser, Melina Sattelmeier, Hanna Schwedhelm, Kevin Merl, Francesca Padoan, Ana Adeva-Bustos, Davide Vettori, Mathias Chabal, Sarah N. Sabil, Daniele Tonina, Daniel S. Hayes

	INSIGHTS FROM NORWEGIAN AND SWEDISH HYDROPOWER PLANTS <u>Mauro Carolli,</u> Håkon Sundt, Sahra Sabil, Atle Harby, Jeffrey Tuthan, Jon Museth, Olle Calles, Markus P. Först				
4:30pm - 5:15pm	Career Award: Career award talk Location: Plénière principale Chair: Daniele Tonina Chair: Paolo Perona				
5:15pm - 5:30pm	Group Photo: Group Photo of ISE 2026 Location: Swiss Tech Convention Center				
5:30pm - 6:30pm	IAHRmeeting: IAHR Town Hall meeting Location: Plénière principale				

Date: Wednesday, 19/Aug/2026

8:00am - 3:30pm	Tours: Technical tours and city tour Location: Technical tours Chair: Azin Amini Chair: Giovanni De Cesare
3:30pm - 6:00pm	Free time: Free time
6:00pm - 11:59pm	HydroQuébec Gala dinner: Conference gala dinner at the Olympic museum sponsored by HydroQuébec Location: Musée Olympique
9:00pm - 9:10pm	CA - Award: Career Award Location: Musée Olympique
9:10pm - 9:20pm	P-Award: Poster Award Location: Musée Olympique
9:20pm - 9:30pm	EA - Award: Art meets Ecohydraulics Award Location: Musée Olympique

Date: Thursday, 20/Aug/2026

8:00am - 12:00pm	Individual meetings Th1: Rooms available for individual meetings between delegates Location: Bureau Garden G				
8:00am - 5:00pm	EA3: Art meets Ecohydraulics Location: Foyer garden	Individual meetings Th2: Rooms available for individual meetings between delegates Location: Bureau Garden H	PE-SED: SED Poster Exhibition Location: Foyer Garden 5	PE3: Poster Exhibition Location: Foyer Garden 5	
8:15am - 9:00am	SED - registrations: SED registrations Location: Plénière principale				
8:45am - 9:30am	ISE-SED Joint PT1: Maria T. Ferreira - Ecohydraulics at the heart of river restoration in a changing world Location: Auditorium C & Foyer Cloud Chair: Giovanni De Cesare Chair: Luiz Silva		SED PT1: Maria T. Ferreira - Ecohydraulics at the heart of river restoration in a changing world Location: Auditorium C & Foyer Cloud Chair: Giovanni De Cesare Chair: Luiz Silva		
9:30am - 10:15am	SED-AM1: Fish passage Location: Plénière principale Chair: Luiz Silva Chair: David Florian Vetsch 9:30am - 9:45am WORKING OUR WAY UPSTREAM: FISH PASSAGE PRACTICE IN SWITZERLAND SINCE 2011 Eva Baier 9:45am - 10:00am SMOLTCAMERA: DEVELOPMENT OF A NON-INVASIVE, AI-ASSISTED CAMERA TECHNOLOGY FOR MONITORING MIGRATION LAKE-RUN BROWN TROUT SMOLTS Frederic de Schaetzen , Luiz G.M. Silva , Matthias Meyer , Steffen Schweizer 10:00am - 10:15am RISK OF FISH INJURIES WHEN INTERACTING WITH ELECTRIFIED BAR RACKS Anita Moldenhauer-Roth , Gabor Süss , Luiz G.M. Silva , Celine Moeckli , Nicolas Diserens , Ismail Albayrak , Robert M. Boes				
9:30am - 10:30am	S20-AM1.1: C2 - Fish passage: design, modelling, and assessment Location: Auditorium C & Foyer Cloud Chair: Sebastian Schwindt 9:30am - 9:45am EFFECT OF TOE LOCATION OF ASSEMBLED BOULDERS ON LEADING FLOW DOWNSTREAM OF FISH PASSAGE Yuuichi Yasuda , Yuuichi Aono 9:45am - 10:00am DEVELOPMENT OF A NOVEL EDDY-BASED FISH GUIDANCE SYSTEM (EGS) (PART-1) Kamal Prasad Pandey , Ismail Albayrak , Armin Peter , Torbjørn Forseth , Eric Lillberg , David Florian Vetsch , Mikaela Larsson , Robert Michael Boes , Ana Teixeira Silva 10:00am - 10:15am LARGE SCALE PERFORMANCE EVALUATION OF NOVEL EDDY BASED FISH GUIDANCE SYSTEM (EGS) (PART-2) Ana T. Silva , David Aldven , Stephanie	S20-AM1.2: A2 - Organism-flow interactions: movement, transport, and sensing Location: Salle 1 - Garden 4A Chair: Francesca Padoan Chair: Daniel S. Hayes 9:30am - 9:45am IMPACT OF ANTHROPIZED RIVER HYDRODYNAMIC CONDITIONS ON SILVER EEL MIGRATION SPEEDS Utashi Ciraane , Damien Sonny , Gaia Falgas , Archambeau Pierre , Dewals Benjamin , Michel Piroton , Sébastien Erpicum 9:45am - 10:00am HYDRODYNAMIC CUES AND MOVEMENT BEHAVIOUR OF SEA LAMPREY: INSIGHTS FOR CONTROL AND CONSERVATION Daniel Zielinski 10:00am - 10:15am USING FIELD AND FLUME STUDIES PAIRED WITH HYDRODYNAMIC MODELING TO	S20-AM1.3: C5 - Ecohydraulics of the hyporheic Zone Location: Salle 2 - Garden 4B Chair: Filippo Miele Chair: Yasamin Aghaei 9:30am - 9:45am HYPORHEIC MACROINVERTEBRATE COMMUNITIES AND PHYSICOCHEMICAL CONDITIONS REFLECT REACH SCALE SUBSTRATE COMPOSITION Kate Mathers , Morwenna McKenzie , Paul Wood 9:45am - 10:00am SPATIAL DISTRIBUTION OF FINE SEDIMENT AND JUVENILE FRESHWATER MUSSEL SETTLING IN THE GRAVEL BEDDED DAN RIVER, NORTH CAROLINA Ellie Buehrer , Fatemeh Shacheri , Muhammad Alif , Jonathan Czuba 10:00am - 10:15am ASSESSING THE INTEGRATION OF HYPORHEIC EXCHANGES INTO SALMONID SPAWNING HABITAT MODELS Matteo Roncoroni , Carole-Anne Gillis , Allen Beck , René Therrien , Normand Bergeron 10:15am - 10:30am	S20-AM1.4: D3 - Bioengineering approaches and Nature-Based Solutions (coast) Location: Salle 3 - Garden 4C Chair: Azin Amini Chair: Jiaqi Liu 9:30am - 9:45am APPLICATION OF ENVIRONMENTAL DNA IN THE ECOLOGICAL STUDY OF ARTIFICIAL WETLANDS IN MACAO Yi Zhou , Zhao-yin Wang , Meng-zhen Xu , Sabrina Yanan Jiang , Bang-jie Sun 9:45am - 10:00am COMPARATIVE ANALYSIS OF NATURAL AND ARTIFICIAL WAVE ATTENUATION: EFFECTS OF BAYS AND WAVE FENCES ON WIND- AND BOAT-INDUCED WAVES Susanne Scherbaum , Yannic Fuchs , Josef Schneider 10:00am - 10:15am NUMERICAL MODELLING APPROACHES FOR WAVE	S20-AM1.5: A3 - Ecomorphodynamics: linking flow, sediment and biota, instabilities, and patterns' formation Location: Salle 4 - Garden 5A Chair: Davide Vanzo Chair: Junjia Kang 9:30am - 9:45am DISCHARGE-DEPENDENT BRAIDED RIVER NETWORKS: PROPERTIES AND IMPLICATIONS FOR DISPERSION PROCESSES Margherita Vendruscolo , Carlo Camporeale , Luca Ridolfi 9:45am - 10:00am GENERATING SYNTHETIC TERRAIN MODELS FROM SPARSE HISTORIC DATASETS FOR ECOHYDRAULIC ASSESSMENT Jared Stieve , Belize Lane , Anzy Lee 10:00am - 10:15am RIVER FLOW VARIABILITY AS A CATALYST FOR VEGETATION GROWTH AND CARBON PUMPING

	Muller Müller, Eric Lilleberg, Kamal Pandey, David F. Vetsch, Olle Calles, Robert M. Boes, Torbjørn Forseth, Ismail Albayrak	INFORM A FRESHWATER MUSSEL REINTRODUCTION <u>Megan DiNicola</u>, Belize Lane	PERMEABILITY CONTROLS ON SALMON REDD HYPORHEIC HYDRAULICS Angel Monsalve, Brandon Hilliard, <u>Daniele Tonina</u>	ATTENUATION USING SEAGRASS AND OYSTER REEFS: A SYSTEMATIC LITERATURE REVIEW <u>Hani Ghasemi</u>, Ali Dastgheib, John O'Sullivan, Md Salauddin	<u>Luca Salerno</u>, Matteo Bertagni, Carlo Camporeale
	10:15am - 10:30am OPTIMIZATION OF FISH BYPASS ENTRANCES: THE OPTIPASS APPROACH <u>Ianina Kopecki</u>, Tom Roessger, Falko Wagner	10:15am - 10:30am PREFERENTIAL PATHS OF GRASS CARP LARVAE SWIMMING THROUGH PATCHES OF FLOATING VEGETATION: INSIGHTS FROM LABORATORY EXPERIMENTS <u>Rafael Tinoco</u>, Vindhyawasini Prasad		10:15am - 10:30am NEW INSIGHTS ON THE EFFECT OF A CURRENT ON THE WAVE ATTENUATION INDUCED BY A SUBMERGED FLEXIBLE CANOPY <u>Davide Vettori</u>	10:15am - 10:30am MODELLING THE ROLE OF HYDROPEAKING ON VEGETATION ESTABLISHMENT DYNAMICS ON GRAVEL BARS <u>Francesco Caponi</u>, David F. Vetsch, Davide Vanzo
10:15am - 10:30am	SED poster pitch: SED Posters brief presentation Location: <u>Plénière principale</u> Chair: David Florian Vetsch Chair: Luiz Silva				
10:30am - 11:00am	MPE Coffee break: Morning coffee break sponsored by MHYD & Patcheiderpartner & EcorisQ Location: <u>Foyer Garden Patio</u>	SED MPE coffee break: Morning coffee break sponsored by MHYD & Patscheiderpartner & EcorisQ Location: <u>Foyer Garden 5</u>			
11:00am - 11:45am	SED-AM2: Hydropeaking Location: <u>Plénière principale</u> Chair: Luiz Silva Chair: David Florian Vetsch 11:00am - 11:15am TECHNO-ECONOMIC AND ENVIRONMENTALASSESSMENT OF THE APPLICATIONS OF BATTERYENERGY STORAGE SYSTEMS (BESS) IN STORAGEHYDROPOWER PLANTS FOR FLEXIBLE POWER REGULATIONAND HYDROPEAKING MITIGATION <u>Marc-Antoine Courtois</u>, Pedro Manso, Giovanni De Cesare, Vincent Dehail 11:15am - 11:30am HYDROPEAKING MITIGATION IN SWITZERLAND - AN OVERVIEW <u>Lorenzo Gorla</u> 11:30am - 11:45am FIRST INSIGHTS FROM 10 WEEKS CONTINUOUS DATA OF BROWN TROUT LARVAE DRIFT IN A SWISS HYDROPEAKING RIVER <u>Joël Ronald Wittmann</u>				
11:00am - 12:00pm	S20-AM2.1: C2 - Fish passage: design, modelling and assessment Location: <u>Auditorium C & Foyer Cloud</u> Chair: Ana T. Silva Chair: Hannes Peter 11:00am - 11:15am DESIGN OF A COMBINED FISH LADDER AND VERTICAL LIFT FOR RESTORING FISH MIGRATION AT THE AIROLO RESERVOIR <u>Eugenio Mazzocchi</u>, Fabio Tognola, Federico Camparada, Bernhard Monai 11:15am - 11:30am CONTRASTING SWIMMING CHARACTERISTICS OF PASSING AND FAILING ROACH (RUTILUS RUTILUS) DOWNSTREAM OF A VERTICAL SLOT	S20-AM2.2: A2 - Organism-flow interactions: movement, transport, and sensing Location: <u>Salle 1 - Garden 4A</u> Chair: Abul Baki 11:00am - 11:15am A WOOD-SHAPED SENSOR FOR LARGE WOOD MOTION DETECTION <u>Jiangtao Yang</u>, Frank Seidel, Mário J. Franca 11:15am - 11:30am WIND-POWERED AERATION SYSTEM FOR EFFECTIVE CYANOBACTERIA CONTROL IN RESERVOIRS <u>Sebnem Elçi</u>, Oguz Hazar, Inci Tuney Kizilkaya 11:30am - 11:45am	S20-AM2.3: C4 - Sediment transport and connectivity Location: <u>Salle 2 - Garden 4B</u> Chair: Davide Vanzo Chair: Hannah Schwedhelm 11:00am - 11:15am MORPHODYNAMICS AND CONNECTIVITY IN RIVER WIDENING TRANSITIONS <u>Romain Van Mol</u>, Giovanni De Cesare 11:15am - 11:30am AI-ENHANCED PREDICTION SYSTEM FOR TURBIDITY AND ECOLOGICAL STRESS MANAGEMENT UNDER EXTREME RAINFALL <u>Sewoong Chung</u>, Hyunhan Kwon, Honglae Cho, Sungjin Kim, Dongmin Kim 11:30am - 11:45am BENTHIC SEDIMENT TRANSPORT PROCESSES UNDER ENERGETIC RIVER FLOW REGIMES: PART I, A NEW	S20-AM2.4: D1 - Impact and mitigation measures of coastal structures Location: <u>Salle 3 - Garden 4C</u> Chair: Giulio Calvani Chair: Yi Zhou 11:00am - 11:15am DESIGNATION OF ENVIRONMENTAL DEGRADATION ZONES WITHIN THE COASTAL AREA <u>Wei-Po Huang</u>, Chorng-Yeu Chiang, Chun-Jhen Ye, Jui- Chan Hsu 11:15am - 11:30am PREDICTING PROPAGULE DISPERSAL IN COASTAL WETLAND <u>Laura Bossaer</u>, Gregory Fivash, Ken Schoutens, Tom Van der Stocken, Johan	S20-AM2.5: A4 - Ecohydraulics Across Space and Time: from habitats to catchments, instants to decades, and individuals to communities Location: <u>Salle 4 - Garden 5A</u> Chair: Sara Bonetti Chair: Felix Broß 11:00am - 11:15am EFFECTS OF RELATIVE FLOODPLAIN WIDTH ON HYDRAULIC VARIABILITY AND AQUATIC HABITAT <u>Rohan Benjankar</u>, Daniele Tonina 11:15am - 11:30am PHYSICAL HABITAT SIMULATION OF SCHIZOTHORAX PRENANTI SPAWNING

	<u>Lina Focht</u>, Patrick Heneka, Martin Henning, Christian Noss, Jochen Aberle 11:30am - 11:45am THE KUDENSEE PROJECT: DEVELOPMENT OF A LESS-DAMAGING REPLACEMENT PUMP FOR SUSTAINABLE WATER MANAGEMENT Stefan Hoerner, Dennis Powalla, Islam Abdelghafar, Emeel Kerikous, <u>Falko Wagner</u>, Jeffrey Tuhtan, Roland Schumacher 11:45am - 12:00pm EVALUATING PASSAGE EFFICIENCY OF MULTIPLE FISH SPECIES IN A LARINIER SUPER ACTIVE BAFFLE FISHWAY <u>Alfredo Schiavon</u>, Ambra Alderighi, Michele Spairani, Alessandro Candiotta, Daniel Nyqvist, Davide Bonetto, Enrico Pini Prato, Claudio Comoglio	FISH PATHWAYS IN BOULDER-DOMINATED NATURE-LIKE FISHWAYS: LINKING SPATIAL VARIABILITY AND ENERGY EXPENDITURE Md Aminul Islam Shagor, Md. Sajjad Hossain Tusher, Tom A. Langen, Haitham Ghamry, <u>Christos Katopodis</u>, Abul B.M. Baki 11:45am - 12:00pm PATHWAYS: AN ALGORITHM FOR MODELING MULTIPLE SWIMMING PATHS BETWEEN HABITATS AND THEIR ENERGETIC COSTS IN A 2D FLOW FIELD <u>Patrick Holzapfel</u>, Daniel Wildt, Lisa Schmalfuss, Gregory Pasternack, Christoph Hauer	MULTIFREQUENCY ACVP INSTRUMENTATION FOR TWO-PHASE LIGHT-WEIGHT PARTICLE EXPERIMENTS <u>Oriana Yon-Campaner</u>, Maxime Lernould, Pierre-Alain Barraud, Guillaume Fromant, David Hurther 11:45am - 12:00pm BENTHIC SEDIMENT TRANSPORT PROCESSES UNDER ENERGETIC RIVER FLOW REGIMES: PART II, NOVEL SAND-LADEN OPENCHANNEL FLOWS <u>Christophe Raymond</u>, David Huther, Giovanni De Cesare	Van de Koppel, Tjeerd Bouma, Stijn Temmerman 11:30am - 11:45am INFLUENCE OF SHIP WAKE DYNAMICS ON SURFACE AND INTERIOR CIRCULATION IN THE HOUSTON SHIP CHANNEL Vivek Bheeroo, Mu-Jung Lee, Scott Socolofsky, <u>Kuang-An Chang</u> 11:45am - 12:00pm A STOCHASTIC APPROACH FOR RECOVERY TIMES OF COASTAL DUNE VEGETATION <u>Davide Demichele</u>, Carlo Camporeale	GROUNDNS BASED ON INDOOR FLUME EXPERIMENTS <u>Min Chen</u> 11:30am - 11:45am APPLICATION OF INSTREAM FLOW INCREMENTAL METHODOLOGY TO CHECK THE IMPACT OF FLOOD PROTECT MEASURES ON FISH MICROHABITATS <u>Meng-Chi Hung</u>, Chuan-Yi Huang, Chang-An Hsu 11:45am - 12:00pm THE IMPACT OF CLIMATE CHANGE ON RIPARIAN VEGETATION IN BOREAL CONDITIONS <u>J. Bastian Höller</u>, Anders G. Andersson, J. Gunnar I. Hellström
11:45am - 12:15pm	SED discussion 1: Discussion of morning sessions Location: Plénière principale Chair: Luiz Silva Chair: David Florian Vetsch				
12:00pm - 1:00pm	IAHR ISE meeting: IAHR Ecohydraulic committee meeting Location: Bureau Garden G				
12:00pm - 2:00pm	Hydrosuisse Lunch ISE+SED: Joint lunch of the two events sponsored by Hydrosuisse Location: FoodLab				
2:00pm - 2:45pm	ISE-SED Joint PT2: Christine Weber - Shifting a paradigm: from anecdotal to systematic learning in river restoration Location: Auditorium C & Foyer Cloud Chair: David Florian Vetsch Chair: Paolo Perona	SED PT2: Christine Weber - Shifting a paradigm: from anecdotal to systematic learning in river restoration Location: Auditorium C & Foyer Cloud Chair: David Florian Vetsch Chair: Paolo Perona			
2:45pm - 3:15pm	ISE RVW Coffee break: Afternoon coffee break sponsored by Romande Energie & VIB - Genie biologique & Watertracks Location: Foyer Garden Patio	SED RVW coffee break: Afternoon coffee break sponsored by Romande Energie & VIB - Genie biologique & Watertracks Location: Foyer Garden 5			
3:15pm - 4:00pm	SED-PM1: Restoration Location: Plénière principale Chair: David Florian Vetsch Chair: Luiz Silva 3:15pm - 3:30pm FROM HYDRAULICS TO RESTORATION: PREDICTING BROWN TROUT MOVEMENT THROUGH HYDRAULIC HABITAT SUITABILITY <u>Francesca Padoan</u>, Giulio Calvani, Giovanni De Cesare, Paolo Perona 3:30pm - 3:45pm “BRI: BIOENGINEERED RIVER ISLAND” A PROMISING CONSTRUCTION TYPE FOR RIVER RESTORATION. CONSTRUCTIVE APPROACHES AND PRACTICE-BASED EXPERIENCES. <u>Vasco Neuhaus</u>, Cristina Rachely, Luzia Meier 3:45pm - 4:00pm LABORATORY PROOF OF WATER RETENTION AND BANK STORAGE BY THE IMPLEMENTATION OF BEAVER DAM ANALOGS (BDA’S) <u>Jolanda Jenzer Althaus</u>, Matthias Weber, Gianluca Flepp, Dominic Grünig, Stefanie Wirth				
3:15pm - 4:30pm	S20-PM1.1: A1 - Interactions between flow, natural elements,	S20-PM1.2: C1 - Peaking regimes and environmental flows	S20-PM1.3: A5 - Global change impact, biogeochemical cycles,	S20-PM1.4: E3 - AI approaches Location: Salle 3 - Garden	S20-PM1.5: A3 - Ecomorphodynamics: linking flow, sediment

and structures Location: Auditorium C & Foyer Cloud Chair: Rafael Tinoco Chair: Simone Speltoni 3:15pm - 3:30pm FLOW RESISTANCE CHARACTERISTICS AND FLOW STRUCTURE OF OPEN CHANNELS DUE TO DIFFERENCES IN VEGETATION ARRANGEMENT AND DENSITY Takayuki Tanaka, Kanta Sugiura 3:30pm - 3:45pm APPLYING TESLA VALVE PRINCIPLES TO OPEN-CHANNEL CONDITIONS FOR ECOHYDRAULIC BARRIERS Inga Kleinewietfeld, Elena-Maria Klopries 3:45pm - 4:00pm FLOW DRAG PARAMETERISATION OF LEAKY BARRIERS FOR NATURAL FLOOD MANAGEMENT Kate Bradbrook, Elizabeth Follett, Barry Hankin 4:00pm - 4:15pm ANTICIPATED CFD MODELING FOR HABITAT SCALE HYDRODYNAMIC COMPLEXITY METRICS IN BOULDER DOMINATED CHANNELS Naima Reggad, Abul BM Baki, Christos Katopodis, Haitham Ghamry, Hasan Zobeyer 4:15pm - 4:30pm PREDICTING FISH HABITAT SUITABILITY USING HABITAT-SCALE HYDRODYNAMIC COMPLEXITY METRICS INTEGRATED INTO THE RIVER2D MODEL Abul BM Baki, Hasan Zobeyer, Md Aminul Islam Shagor, Haitham Ghamry, Christos Katopodis, Tom A. Langen	Location: Salle 1 - Garden 4A Chair: Sahra Naima Sabil Chair: Atle Harby 3:15pm - 3:30pm ECOLOGICAL CONSEQUENCES OF FLOW REGIME ALTERATION FROM HYDROPOWER REGULATION: A COMPARATIVE ASSESSMENT OF THE RHÔNE AND ÇORUH RIVERS Ibrahim Halil Demirel, Giovanni De Cesare 3:30pm - 3:45pm USING GENETIC TOOLS TO ASSESS FISH POPULATION ABUNDANCE AND CONNECTIVITY IN A REGULATED RIVER Julien Di Pane, Jérôme Prunier, Vincent Dubut, Olivier Lepais, Véronique Gouraud, Laurence Tissot, Jeremy Piffady, Pierre Bompard 3:45pm - 4:00pm IMPLEMENTATION OF ENVIRONMENTAL FLOWS: REALITIES, CONSTRAINTS AND WAY FORWARD Marie-Pierre Gosselin, Mauro Carolli, Luiz Da Silva, Daniel Hayes, Martin Schletterer, Steffen Schweizer, Dana McCosey 4:00pm - 4:15pm ECOLOGICAL PORTRAIT OF THE KIPAWA RIVER IN LIGHT OF A POTENTIAL HYDROELECTRIC DEVELOPMENT Eva Enders, William Jacques, Etienne Foulon, André St-Hilaire 4:15pm - 4:30pm TOLERANCE TO TOTAL DISSOLVED GAS SUPERSATURATION IN ATLANTIC SALMON, BROWN TROUT, RAINBOW TROUT AND EUROPEAN MINNOW Rowan Hamper	biodiversity losses, and ecosystem resilience Location: Salle 2 - Garden 4B Chair: Paolo Vezza 3:15pm - 3:30pm FROM PHOSPHORUS CONTROL TO HABITAT RESPONSE: WATER COLUMN RECOVERY AND LEGACY SEDIMENT EFFECTS IN A CHALK STREAM Giuditta Trinci, Geraldene Wharton, Kate Heppell, Thomas Kelly 3:30pm - 3:45pm A STUDY OF POTENTIAL MITIGATION MEASURES FOR STORÅNE, A HYDROPEAKED RIVER IN NORWAY Magnus Simon Graf, Knut Tore Alfredsen, Noé Bocquillon, Bjørn Otto Dønnum 3:45pm - 4:00pm CLASSIFYING HYDROMORPHOLOGICAL CONDITIONS FOR IMPACT ASSESSMENTS IN PROTECTED WATERCOURSES IN NORWAY USING A REMOTE SENSING APPROACH Håkon Sundt, Mauro Carolli, Atle Harby 4:00pm - 4:15pm ADVANCING LIMNOLOGICAL RESEARCH IN CENTRAL ASIA: CONTRIBUTIONS TO FRESHWATER BIODIVERSITY AND ECOLOGY FROM THE HYDRO4U PROJECT Daniel S. Hayes, Erkin Karimov, Pieterjan Verhelst, Otabek Omonov, Andrea Funk, Ianina Kopecki, Johan Coeck, Bakhtiyor K. Karimov, Jan De Keyser, Fazliddin Muhammadiyev, Matthias Schneider, Bernhard Zeiringer, Bertalan Alapfy, Justine Carey, Carina Seliger, Falko Wagner, Tom Roessger, Martin Schletterer 4:15pm - 4:30pm MODELLING FISH HABITAT CHANGES DUE TO THE PRESENCE OF LARGE WOOD IN RIVERS Marcos Sanz Ramos, Virginia Ruiz-Villanueva, Ernest Bladé	4C Chair: Sarah Broos 3:15pm - 3:30pm A MODELING AND MACHINE LEARNING FRAMEWORK FOR PREDICTING SEDIMENT SPILL DEPOSITION Binbin Wang, Ruichen Xu, Qingqing Sun, Baolin Deng 3:30pm - 3:45pm ESTIMATING LABORATORY RELATIVE BLADE STRIKE VELOCITIES WITH A RIGID CYLINDRICAL PLASTIC SENSOR Jeffrey A. Tuhtan, Iring Wolf Kösters, Gert Toming, Shokoofeh Abbaszadeh, Stefan Hoerner 3:45pm - 4:00pm MACHINE LEARNING–BASED PREDICTION OF SUSPENDED SEDIMENT TRANSPORT IN CHILEAN RIVERS UNDER PROLONGED DROUGHT CONDITIONS Maria José Cid Vargas, Diego Caamaño Avendaño, Maribet Gamboa Méndez 4:00pm - 4:15pm REDUCING HUMAN ANNOTATION EFFORT FOR AI FISH COUNTERS USING CONFORMAL PREDICTION Alexandra Kolosova, Jeffrey A. Tuhtan 4:15pm - 4:30pm DEEP LEARNING BASED VEGETATION HEIGHT ESTIMATION-CASE STUDIES IN ITALY AND POLAND Yiwei Guo, Michael Nones, Yitian Qi	and biota, instabilities, and patterns' formation Location: Salle 4 - Garden 5A Chair: Giulio Calvani Chair: Sameh Kantoush 3:15pm - 3:30pm LANDSCAPE METRICS AS INDICATORS FOR HABITAT COMPLEXITY IN RESTORED RIVER REACHES Paul Demuth, Volker Weitbrecht, Chantal M. Hischier, Christine Weber, Robert M. Boes, David F. Vetsch 3:30pm - 3:45pm FLOODPLAIN VEGETATION CONTROLS ON IN-CHANNEL HABITAT AVAILABILITY AND REFUGE IN A MEANDERING MORPHOLOGY Davide Vanzo, Nicolas Pava, Andrew Tranmer, Daniel White 3:45pm - 4:00pm INUNDATION DYNAMICS AND CHANNEL NETWORK CHANGES IN RESPONSE TO FLOODS IN AN ALPINE BRAIDED RIVER Mahmoud Omer Mahmoud Awadallah, Davide Vanzo, David Florian Vetsch, Robert Michael Boes, Francesco Caponi 4:00pm - 4:15pm HYDROLOGY DRIVEN WETLANDS MORPHOLOGY AND ITS ROLE IN THE WATER-CARBON BUDGET Filippo Miele, Benjamin Kargere, Meret Aeppli, Sara Bonetti 4:15pm - 4:30pm FROM STOCKPILE EROSION TO CHANNEL ADJUSTMENT: INVESTIGATING THE HYDRO-MORPHOLOGICAL IMPACTS OF SEDIMENT REPLENISHMENT VIA NUMERICAL SIMULATION Jiaqi Lin, Sameh A. Kantoush, Tetsuya Sumi
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4:00pm -	SED discussion 2: Afternoon discussion Location: Plénière principale Chair: David Florian Vetsch	
4:15pm	Chair: Luiz Silva	
4:15pm -	SED closure: Ending event SED Location: Plénière principale Chair: Luiz Silva	
4:30pm	Chair: David Florian Vetsch	
4:30pm -	ISE-SED Joint PT3: Paola Vigano' - Water designs Location: Auditorium C & Foyer Cloud Chair: Paolo Perona	SED PT3: Paola Vigano' - Water designs Location: Auditorium C & Foyer Cloud Chair: Paolo Perona
5:15pm	Chair: Ben Gitai	Chair: Ben Gitai
5:15pm -	Closing: Closing remarks ISE and announcement next Conference Location: Auditorium C & Foyer Cloud	
5:45pm		
5:15pm -	Q & W SED Aperó session: Closing Aperó sponsored by EcorisQ & Watertracks Location: Swiss Tech Convention Center	
6:15pm		