

# International Conference on Fishfriendly Hydropower

## FIThydro final Conference

17 – 18 March 2021

## PROGRAM

17 MARCH 2021

12:20 (CET)	Participants check-in	
	<b>Opening &amp; Keynote</b>	Moderator: Peter Rutschmann, TUM
12:30	Welcome and Introduction	Moderator: Peter Rutschmann
12:45	<b>Keynote 1: Sustainability in hydropower today and future outlook</b> <i>María Ubierna, IHA</i>	
13:05	Q&A	
	<b>1. Strategies and decision support tools to mitigate hydropower impacts on fish and fisheries using conventional and innovative cost-efficient measures</b> <i>Moderator: Atle Harby, SER</i>	
13:15	1.1 FIThydro Decision Support System and FIThydro wiki	Richard Noble, UHULL and Bendik Hansen, SER
13:30	1.2 Finding Cost-effective mitigation measures for fish in hydropower rivers	Ana Adeva-Bustos, SER
13:40	1.3 Public acceptance of alternative hydropower solutions	Terese Venus, TUM
13:50	1.4 Highlights from AMBER project – Adaptive Management of Barriers in European Rivers	Carlos Garcia de Leaniz, Swansea University
14:00	1.5 Highlights from HYPOSO project – Hydropower solutions for developing countries	Ingo Ball, WIP Renewable Energies
14:10	1.6 Highlights from Hydro4U – Hydropower in Central Asia	Markus Reisenbüchler, TUM
14:20	1.7 Moderated discussion with speakers based on audience questions	Moderator: Atle Harby, SER
14:50	Break	

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### 2. Assessing the response and resilience of fish populations in hydropower-affected rivers

*Moderator: Christian Wolter, IGB*

15:25	<b>Keynote 2: Challenges and opportunities in assessing responses and resilience of various fish species and populations in hydropower-affected rivers</b> <i>Chris Katopodis, Katopodis Ecohydraulics LTD.</i>	
15:45	Q&A	
15:50	2.1 Use and test of European Fish Hazard Index	Ruben van Treeck, IGB
16:00	2.2 Cumulative Impact Assessment	Ian Cowx, UHULL Christian Wolter, IGB
16:10	2.3 Relative risks of mortality and injury for fish during downstream passage at hydroelectric dams in temperate regions	Dirk Algera, Carleton University
16:20	2.4 Fish tests and field campaigns in and around hydropower plants	Armin Peter, FCO
16:30	2.5 Highlights from SUDOANG project: Tools and methods that contribute to the conservation of the European eel and its habitat in the SUDOE area	Pierre Sagnes, OFB
16:45	2.6 Moderated discussion with speakers based on audience questions	Moderator: Christian Wolter, IGB
17:15	Closing	

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12:20 (CET)	Participants check-in	
12:30	Welcome and Introduction to Day 2	
	<b>3. Innovative Technical Solutions for Downstream fish and sediment passage</b> <i>Moderator: Ismail Albayrak, ETH Zürich</i>	
12:35	<b>Keynote 3: Innovation and research in Hydropower</b> <i>Peter Rutschmann, TUM</i>	
12:55	Q&A	
13:00	3.1 Monitoring bedload diversion through a vortex tube	Cristina Rachelly, ETH Zürich
13:10	3.2 Measuring the severity of downstream passage	Jeffrey Tuhtan, TTU
13:20	3.3 Curved-bar racks for downstream fish passage	Claudia Beck, IUB Engineering, ETH Zürich
13:30	3.4 Horizontal bar rack bypass systems for downstream fish passage	Julian Meister, Axpo Power, ETH Zürich
13:40	3.5 Low bar spacing solutions for downstream migration	Laurent David, Pprime
13:50	3.6 Efficiency of downstream passage devices to protect Atlantic salmon smolt and European silver eels at small to medium hydropower plants	Sylvie Tomanova, OFB
14:00	Break	
14:20	3.7 Moderated discussion with speakers based on audience questions	Moderator: Ismail Albayrak

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### 4. Innovative methods, tools and devices for sustainable and fishfriendly hydropower

*Moderator: António Pinheiro, IST-ID*

14:55	4.1 Hydropeaking Impact Assessment tool	Isabel Boavida, IST-ID Atle Harby, SER
15:05	4.2 Agent based model in CASiMiR	Matthias Schneider, SJE
15:15	4.3 Innovative laboratory approaches to assess the turbine passage effects on conventional and pumped hydropower	Luiz da Silva, IfU, ETH Zürich
15:25	4.4 Influence of operation modes and fish behaviour on fish passage through turbines – simple and advanced modelling methods	Ulli Stoltz, Voith
15:35	Break	
15:55	4.5 Moderated discussion with speakers based on audience questions	Moderator: António Pinheiro

### 5. Towards a future research agenda for fishfriendly and sustainable hydropower

*Moderator: Peter Rutschmann, TUM*

16:30	5.1 Highlights from Hydropower Europe project - achieve a research and innovation agenda and a technology roadmap for the hydropower sector	Anton Schleiss, ICOLD, EPFL
16:40	Q&A	
16:45	5.2 Discussing fish-friendly hydropower across Europe - Stakeholder feedback to FIThydro	Eleftheria Kampa, Ecologic Institute
16:55	5.3 Panel Expert Discussion	Robert Boes, ETH Zürich Martina Bussetini, ISPRA Erik Sparrevik, Vattenfall Claire Baffert, WWF EPO
17:25	5.4 Live contribution from Audience	Interactive
17:55	Closing	Peter Rutschmann, TUM

