





BASEMENT Users Meeting 2024

Date:	January 25, 2024		
Location:	OST Campus Rapperswil-Jona (Switzerland) and online via Zoom		
Organizers:	Laboratory of Hydraulics, Hydrology and Glaciology (VAW), ETH Zurich		
	Institute for Construction and Environment, Eastern Switzerland		
	University of Applied Sciences (OST)		

Welcome and Introduction

09:00	-	09:15	Registration		
09:15	-	09:20	Welcome address	Robert Boes,	
				Davood Farshi	
09:20	-	09:45	Current and future developments	David Vetsch	
09:45	-	10:30	Coffee break		
Session 1 - Flood risk assessment and management					
10:30	-	11:00	Sensitivity of flood impact in the main rivers and lakes of Switzerland	Markus Mosimann	
11:00	-	11:30	BASEMENT 2-D application in the territorial planning of mountainous areas - from the design of hydraulic defence works to the definition of hazard maps	Marika Righetto	
11:30	-	12:00	Investigation of friction coefficients for the 2D modeling of forest areas along rivers	Dany Suter	
12:00	-	13:30	Lunch break		
Session 2 - River restoration and morphodynamics					
13:30	-	14:00	A Step-pool sequence, an environmentally friendly grade control structure as	Nicola Groff,	
			an alternative to old-style-concrete check dams: an application in the Wester	Silvia Simoni,	
			Italian Alps using BASEMENT as designing supporting tool	Francesco Comiti	
14:00	-	14:30	Morphodynamic simulations of complex river morphologies based on the lab results of the physical model of the Alpine Rhine	Gabriel Zehnder	
14:30	-	15:00	Downstream propagation of water and sediment hydrographs due to the hypothetical failure of a real earthen dam	Andrea Antonella Graziano	
15:00	-	15:45	Coffee break		
Session 3 - News from the BASEMENT team					
15:45	-	16:05	Tsunami wave generation mechanisms	Jana Schierjott	
16:05	-	16:25	Temperature transport model	Davide Vanzo	
16:25	-	16:45	Lagrangian transport model	Francesco Caponi,	
				Daniel Conde	
16:45	-	17:05	Mixed-size sediment transport model for BASEHPC	Matthias Bürgler	
17:05	-	17:15	Summary	David Vetsch	