



BASEMENT Users Meeting 2023

Date: January 26, 2023
Location: OST Campus Rapperswil-Jona (Switzerland) and online via Zoom
Organizers: Laboratory of Hydraulics, Hydrology and Glaciology (VAW), ETH Zurich
Institut für Bau und Umwelt, Eastern Switzerland University of Applied Sciences (OST)

Welcome and Introduction

09:00	-	09:05	Welcome address	Robert Boes, Davood Farshi
09:05	-	09:30	Current and future developments	David Vetsch

Session 1 - Flood risk assessment and management

09:30	-	10:00	Reassessment of flood risk for DMB project with high resolution 2D model	Quentin Theiler
10:00	-	10:30	Coffee break	
10:30	-	11:00	2D Modelling of Dam Breaches and Flood Wave Propagation at Small Dams in the Canton of Zurich	Franziska Siegenthaler
11:00	-	11:30	Design of flood mitigation measures at Sesto and Drava rivers using 2D simulations and validation to a physical model	Silvia Simoni Nicola Groff
11:30	-	12:00	Hydrodynamic 2D-models as a basis for the elaboration of hazard maps in urban areas	Andreas Sutter

12:00 - 13:30 Lunch break

Session 2 - Modelling practice

13:30	-	14:00	Comparative Analysis of SWE models - Case studies of floods in the North of Madagascar	Mamisoa Randriamparany
14:00	-	14:30	Staggered Coupled Simulation of Urban Precipitation Events using BASEMENT, SWMM and OpenGeoSys	Lars Backhaus
14:30	-	15:00	Application-oriented Concepts (AoC) - current status of AoC "bed load transport"	Benjamin Hohermuth Seline Frei

15:00 - 15:30 Coffee break

Session 3 - River restoration and hydropower

15:30	-	16:00	Morphodynamical 2D modelling for the analysis of sediment replenishment at Isarco river downstream of the Fortezza dam	Valentina Pinamonti
16:00	-	16:30	Use of Basement 2D as a fundamental tool in different stages of hydropeaking mitigation: the Sarine River case study	Irene Samora

Session 4 - News from the BASEMENT team

16:30	-	16:45	Habitat modelling using Habby	Davide Vanzo Francesco Caponi
16:45	-	17:00	Introducing BASEMENT Version 4	Matthias Bürgler
17:00	-	17:10	Summary	David Vetsch, Davood Farshi