

Lecture  
**Experimental Hydraulics**  
(LV-Nr. 6222907)

Lecturer:	Dr.-Ing. Frank Seidel		
Time:	Tuesday: 15:40 to 17.15 h		
Place:	Building 10.83	Room:	001
Takes place in:	Winter Term		

Content :

Experimental setups are widely used to investigate and optimize the design of hydraulics structures or to investigate river morphology processes. Within this course, we start off with looking at the theory behind scaled model and model similarity. Based on this background we then start exploring applications and application limits on a more practical level based on numerous case studies of the institute. Besides models with a fixed bed, we will also take a closer look at models with a movable bed. Regular visits to the Theodor-Rehbock Hydraulic Lab at KIT and a visit to the BAW-Laboratory will give more practical insights.

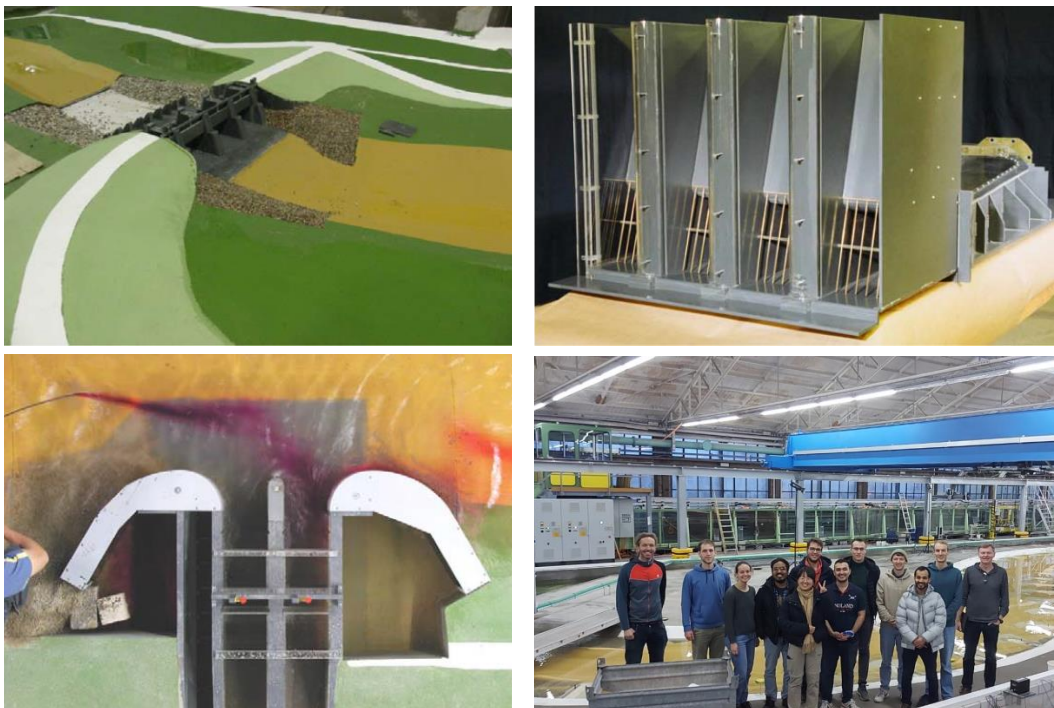


Fig. 1: model of a flood retention basin, intake structure, approaching flow conditions and visit of the BAW-Laboratory