

Invitation to Summer School

“Hydrological Extreme Events”

26.09. - 31.09.2022, Aachen



The first HyCo-Geo Summer School on “Hydrological Extreme Events” will take place at the RWTH Aachen Gästehaus in Aachen from 26th until 30th of September! The Hydro Competence Center (short HyCo-Geo) is a project of the ABC/J Geoverbund, a coalition initiative of the RWTH Aachen, the University of Cologne, the University of Bonn, and the Forschungszentrum Jülich. The HyCo-Geo initiative aims at promoting the hydrological competence and interdisciplinary research within the ABC/J institutions, always with a strong focus on teaching.

The Summer School will deal with hydrological extreme events, flooding as well as drought, from a variety of different perspectives like engineering, sedimentology, climatology, economics and many more. Participants will get the opportunity to gain unique insights into hydrological research with presentations by experts all across the field of hydrology. Each presentation will be enhanced by a following discussion. Moreover, each afternoon a hands-on session will teach valuable skills in related methods like, e.g., Delft 3D. Two field trips with local experts complete the program.

Monday – Climate	Tuesday – Flood Management	Wednesday – River Restoration	Thursday – Low Flow	Friday
A climatological perspective on precipitation and extreme rainfall events <i>Dr. Gunnar Ketzler, Niels Döscher</i>	Morphodynamics and soil erosion related to flood events <i>Prof. Frank Lehmkühl</i>	Wasserrecht (presentation held in German!) <i>Prof. Walter Frenz</i>	Low Flow in the river Rhine <i>Dr. Enno Nilson</i>	Field trip
High precision lysimetry in the TERENO-SOILCan-network <i>Dr. Thomas Pütz</i>	The engineering perspective <i>Prof. Holger Schüttrumpf</i>	River-related ecosystem services <i>Prof. Peter Letmathe</i>	Low flow in agricultural systems <i>Prof. Nicola Fohrer</i>	
State and course of the Roman Rhine <i>Prof. Renate Gerlach</i>	Lessons learned - the flood events of July 2021 <i>Prof. Lothar Schrott</i>	Field trip to the River Meuse <i>Wim Hendrix</i>	Dams for drinking water supply <i>Christof Homann</i>	
Lunch	Lunch		Lunch	
Hands-on: Using dendrochronological data for climate modeling <i>Dr. Burkhardt Neuwirth</i>	Hands-on: Delft 3D <i>Stefanie Wolf</i>	Hands-on: Modelling using WEAP (Water Evaluation and Planning) <i>Prof. Britta Höllermann</i>		

The event is open to all graduate students who currently attend a Master’s or Doctoral program in a related field (e.g., geography, geology, hydrology, landscaping, etc.). The summer school is free of charge, however, the participants have to take care of accommodation and travel expenses themselves. As a matter of course, all participants will obtain a participation certificate.

Applications should include a short motivation letter (maximum of 500 words) as well as a résumé and should be sent in PDF format to hycogeo@geo.rwth-aachen.de with “Application Summer School 2022” set as subject. Deadline for application is 31st of May. You will receive a confirmation of receipt immediately; feedback on the success of the application will be sent by Mid- June 2022.