

# Theme

In a changing climate, hydrological and meteorological hazards related to water provoke more and more losses. Water courses are also causing other types of hazards, as alluvial soil deposits are raising vulnerability to earthquakes through the Mexico City effect. On the other hand, water itself is a vulnerable habitat. To deal with the latter, living museums including aquaria are planned, to raise awareness of the need to protect the ecological diversity of water and water sites. Protecting water sites can also be, at times, protection against water related hazards, as landscape architecture began to recognize recently. Floodplains are an alternative to dams and dikes. This would be already enough to emphasize water as a dual element, but the duality goes further. Having to think about duality, we think of Chinese philosophy. Water (or the lack of it, as in drought) destroys life as a hazard, but gives life as well. To this symbol of giving life is connected the role of water as heritage, to the development of culture next to water. Architecture of river and coastalscapes underscore this. Leisure architecture is connected to this, and includes also architectural objects such as baths.

Recently there were a couple of initiatives dealing with subjects other than the natural hazards view of natural sciences and engineering:

- the Water Junior Summit of the European Science Foundation looking to water from a multidisciplinary point of view in Stresa, Italy, in 2012
- The Water symposium in Japan for women scientists at Hokkaido University, since 2014, in a 5 year program
- The seminar by Alina Payne from Harvard held in the extended Mediterranean space "From Riverbed to Seashore" in 2013-2015
- The workshop on "Floods, dams and dikes in early modern world" at New Europe College, Romania in 2014.
- Water forms: History, Gestalt and Semantics of an Element, at Kunsthistorisches Institut Florenz, in 2016.

Approaches to hydrological and meteorological hazards within the EGU are numerous. The aim of this Workshop was to bring together selected participants from these events to examine the duality, thus far neglected in EGU events. The organizer was conducting research for a scholarship on the topic of adaptation of architecture programs to the needs of women pioneers in architecture as investor, planner/designer and user, in the coming academic year. The form of the workshop was the science café; after presentations of the key note speakers the participants will gather at a round table and brainstorm on the a set of preselected questions.

*Dr. Dipl.-Ing. Maria Bostenaru Dan*

*Forscherin an der „Ion Mincu“ Universität für Architektur und Städtebau  
und internationale Forscherin des KIT, Gastwissenschaftlerin*

*Akademischer Oberrat Dipl.-Ing. Alex Dill*

*Leiter des Fachgebiets Architektur und Mobiliar des KIT*