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EGU Leonardo Conference on Earth's Hydrological Cycle

From Science to People: Expecting the Unexpected in Flood and Drought Risk Management

Science Progress and Engineering Practice

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The impact of floods and drought is often exacerbated by their occurrence with unexpected behaviors. Moreover, climate and environmental changes imply a lower predictability of hydrological extremes, with consequences that are not yet understood. Yet, surprise is still a neglected element in risk assessment and management. Overcoming these knowledge barriers requires an improved understanding of the conditions leading to surprise, that often arise from the interaction of water and societal processes, namely, systems that may be affected by randomness and complexity of different nature. A better understanding of **environmental, natural and anthropogenic risks**, their interrelation with **climate change**, the development of up-to-date research **methodology** and the **knowledge transfer** to disaster risk managers are urgently required. Considering for the potential for surprise and devastating consequences requires a shift in thinking.

The conference aims to bring together international hydrologists to discuss how novel scientific findings and methods can assist mitigating the impact of hydrological extremes. Topics may include floods and droughts under environmental change and linkages to societal processes system. Attendance is free of charge.

Logistic details, organisation of the conference, abstract submission, travel support for early career scientists are given at <https://eventi.unibo.it/eguleonardo2025/>

Key dates: March 31, 2025: deadline for abstract submission



April 30, 2025: notification of presentation format (oral or pop-up with poster)

May 15, 2025: final program publication

May 31, 2025: registration deadline

The conference is organized under the patronage of:

