

Session title

Advancing Socio-Hydrogeology: Bridging Groundwater Science, Social Systems, and Decision-Making

Description

Groundwater science and management are increasingly recognized as deeply interconnected with societal systems, yet traditional hydrogeological training and practice often lack systematic integration of social, cultural, economic, and governance perspectives. Socio-Hydrogeology seeks to fill this gap by combining hydrogeological methods with social science theories, participatory approaches, and governance frameworks, ultimately enabling more equitable and sustainable groundwater solutions. This special session aims to bring together researchers, educators, practitioners, and policymakers to explore: - Methodological innovations for integrating social sciences into groundwater research - Case studies where socio-hydrogeological approaches have improved understanding, decision-making, or community engagement - Educational pathways for training future hydrogeologists in socio-hydrogeological competencies - Governance and policy insights reflecting socio-cultural dynamics in water management Both applied case studies and theoretical frameworks are welcome in the session.

Keywords

Socio-hydrogeology; Human-water systems; Participatory approaches; Knowledge co-production; Groundwater policy; Equity and justice

Session Chair

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Conveners

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