



August 2022 Newsletter



Publications

- **Meena, R. K., Sen, S., Nanda, A., Dass, B., & Mishra, A.** (2022). A contribution to rainfall simulator design—a concept of moving storm automation. *Hydrology and Earth System Sciences*, 26(16), 4379-4390. <https://doi.org/10.5194/hess-26-4379-2022>
- Hinge, G., Bharali, B., Baruah, A., & **Sharma, A***. (2022). Integrated groundwater quality analysis using Water Quality Index, GIS and multivariate technique: a case study of Guwahati City. *Environmental Earth Sciences*, 81(16), 1-15. <https://doi.org/10.1007/s12665-022-10544-0>
- **Rawat, S., Ganapathy, A., Agarwal, A.** Drought characterization over Indian sub-continent using GRACE-based indices. *Scientific Reports* (2022). (accepted)
- **Ganapathy, A., Agarwal, A.** Customized sea-surface temperature indicators linking to streamflow at different timescales. *International Journal of Climatology* (2022). (accepted).
- Steirou, Eva, Lars Gerlitz, Xun Sun, Heiko Apel, **Ankit Agarwal**, Sonja Tetz, and Bruno Merz. "Towards seasonal forecasting of flood probabilities in Europe using climate and catchment information." *Scientific reports* 12, no. 1 (2022): 1-10. <https://doi.org/10.1038/s41598-022-16633-1>
- Deva Charan Jarajapu, Maheswaran Rathinasamy, Ankit Agarwal, Axel Bronstert (2022) Design Flood Estimation using Extreme Gradient Boosting-based on Bayesian Optimization, *Journal of Hydrology*, 128341. <https://doi.org/10.1016/j.jhydrol.2022.128341>
- **Tiwari, S. & Yadav, B. K.**, (2022). Factors influencing the site selection criteria for efficient aquifer storage and recovery (ASR) system in saline regions.', in the proceeding book 'Water Resources Management and Sustainability: Solutions for Arid Regions 2022' by Water Science and Technology Library (Springer). (Accepted)

Lectures Delivered

- Prof. Bhaskar Jyoti Deka was invited to deliver an expert talk on "Wastewater collection, treatment & disposal" under the training programme on Water Sanitation and Hygiene WASH, conducted by the Department of WRDM, IIT Roorkee and supported by Indian Technical & Economic Cooperation (ITEC) Programme, Ministry of External Affairs, Govt. of India on 27th August 2022.
- Prof. Bhaskar Jyoti Deka was invited to deliver an expert talk on "Water treatment processes and disinfectant requirements" under the training programme on Water Sanitation and Hygiene WASH, conducted by the Department of WRDM, IIT Roorkee and supported by Indian Technical & Economic Cooperation (ITEC) Programme, Ministry of External Affairs, Govt. of India on 27th August 2022.



Awards and achievements

- Prof. Brijesh Kumar Yadav has been nominated as the Chairperson of the "Expert Committee on Ground Water" by the Sikkim Government on the recommendation of the Honorable High court of the state. The main role of this committee is to provide technical inputs and guidance to the Sikkim State Ground Water Committee (SGWC) for better management of groundwater resources.
- Prof. Brijesh Kumar Yadav has been selected Association of Global Groundwater Scientists (AGGS)-Fellow award for his contributions in the areas of Groundwater Hydrology.
- Prof. D S Arya has been nominated as a member of the state committee of Dams Safety of Maharashtra State.
- Prof. M K Jain has been nominated as a member of the state committee of Dams Safety of West Bengal State.
- Prof. Brijesh K Yadav has been nominated as a member of the state committee of Dams Safety of Uttarakhand State.
- Prof. Ankit Agarwal and Prof. Ashutosh Sharma have joined the Water security Journal as guest Editors for Water Security for Sustainable Development Special Issue.
- Prof. Ankit Agarwal has been nominated as a member of the technical committee for the 8th R&D International Conference on “Global Trends in Water Resources, Power and RE Technologies”, from 20-23rd December 2022 at IIT Gandhinagar by the Central Board of Irrigation & Power, New Delhi.
- Prof. Ankit Agarwal has been nominated as a selection Panel member for the DAAD Falling Lab 2022. <https://www.dwih-newdelhi.org/en/event/falling-walls-lab-india-2022/>

Miscellaneous

- Mr. Ravi Kumar Guntu (PhD Scholar), Ms. Sujata S Kulkarni (PhD Scholar), Mr. Nikunj Mangukiya (PhD Scholar), and Mr. Subhankar Das (PhD Scholar) Attended 8th Potsdam Summer School in Potsdam, Germany, held on 22-31 August 2022 sponsored by the Co-prepare project.
- Co-prepare organized the UDAN lecture by Dr. Daniel Viviroli, Head of Mountain Hydrology group, the University of Zurich, on "The hydrological significance of mountains" on 26th August 2022.
