

# Dam Break – 1D & 2D Modelling

## OVERVIEW

On completion of its glorious 50 years of Hydrologic education, Department of Hydrology IIT Roorkee is celebrating its golden jubilee year. As part of the year-round celebrations, a 1-day workshop on 1D- 2D Dam Break Modelling using MIKE platform is being jointly organized by [Department of Hydrology, IIT Roorkee](#) and [DHI \(India\)](#).

Dam Break modelling is a technique used for assessing multi hazards associated with the water resource projects. The objective of this workshop is to train students, scientists, professionals to learn the technique using MIKE Platform in a user-friendly manner. The workshop will provide an opportunity for future water professional to better understand dam related risks using numerical modelling.

## DHI EXPERT AND TRAINER

### Key Speaker: Mr. Mark Falcon Britton

Mark is a Civil Engineer with nearly 25 years of experience in water resource engineering, hydrology and hydraulics, and has advanced knowledge of both 1D and 2D numerical models used to describe flood behavior in rural and urban environment. Mark is one of DHI's certified trainers for MIKE11, MIKE21 and MIKE FLOOD, and regularly conducts training courses in Australia and internationally. Mark also maintains his domain expertise through technical project management roles on a variety of flood related projects across Australia. Prior to joining DHI, Mark worked in both the Local Government and private engineering consulting companies.

Currently, Mark is primarily employed in DHI's global sales organization as the Global Vice President- Sales, while maintaining key account responsibility for global consulting engineering companies.

## AGENDA

- New offerings in MIKE Platform
- News from our R&D Technological advancement – What's next?
- Dam Break – 1D & 2D Modelling (Hands-on, Theory, Case study)
- Emerging technologies for simulating non-Newtonian fluids like dam tailings
- Q&A

## KEY DATE

Date: 5 July 2022

Time: 9:00 – 6:00 PM

## VENUE

HIS Lab

Department of Hydrology  
IIT Roorkee

## REGISTRATION

Participation in the event is free of charge. Participation in the workshop is subjected to the confirmation by the organizer.

## FOR MORE DETAILS, PLEASE CONTACT:

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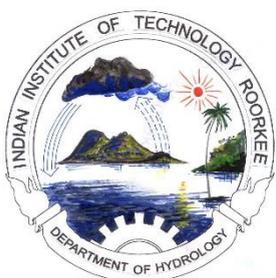
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**About Indian Institute of Technology Roorkee:** Indian Institute of Technology Roorkee has its roots in the Roorkee College, established in 1847 as the first engineering college in India. On September 2001, the University was converted into an IIT by the Government of India. IIT Roorkee has a highly qualified and motivated faculty of about 474 members engaged in research, consultancy, and teaching. Several academic and research centers are engaged in interdisciplinary research, and many collaborative programmes exist with institutions in India and abroad. Currently, the Institute has 4270 undergraduate students, 1690 postgraduates and 1749 research scholars. This year the institute is celebrating 175 years of its establishment.

**About Department of Hydrology:** The Department of Hydrology is one among the 21 academic departments of the Indian Institute of Technology Roorkee. The Department came into existence with the inception of the International Post Graduate Course in Hydrology in 1972, being the first such a programme in a developing country. The courses, offered by the Department are presently sponsored by the Government of India and the UNESCO. The Department has eight dedicated full time faculty members having specializations in surface water hydrology (Floods, Droughts), water resources systems, watershed management, Geo-hydrology, ground water geophysics, stochastic hydrology, hydro-informatics, environmental hydrology, atmospheric physics, climate change etc. Since 2003, the Department has widened its horizon by offering admissions to the GATE qualified fresh engineering and science graduates. The Department of Hydrology has been recognized as one of the WMO-Regional Training Centre in 2015. This year the department is celebrating its 50 years of its glorious past in imparting hydrologic education.

**About DHI:** DHI India Water & Environment Pvt. Ltd is a wholly owned subsidiary of the DHI Group. Established in India as an independent company in 2001, it represents over 21 years of dedicated research and expertise from the different projects executed all over India. DHI India focuses on water resources, marine and environment consultancy services, software solutions and Academy.

**Registration Process:** We request the participants to kindly register for this workshop by filling out the [google form link attached here](#). The final list of participants will be informed once the selection process is completed by the committee. Kindly make sure to fill out the correct contact details (mail and phone number) so that we can pass out the relevant information.

**How to Reach:** Roorkee is well connected to Delhi by rail and road. It is situated on National Highways 58 and 73 and is on Amritsar-Howrah main rail route. Some trains which are convenient for travelling between Delhi and Roorkee are New Delhi-Dehradun-New Delhi Shatabdi Express and Dehradun-New Delhi-Dehradun Janshatabdi Express. The nearest airport is located at Jollygrant, Dehradun. However, New Delhi is the preferred airport. National Highway 58 from New Delhi to the higher reaches of the Himalayas passes via Roorkee. Roorkee is, therefore, well connected to all the major cities in the region by road. There are frequent bus services to this place from the Maharana Pratap Inter State Bus Terminal (Kashmere Gate) Delhi. [Click here on this link to know more on how to reach IIT Roorkee.](#)

**Lodging & Boarding:** Limited rooms are available on paid basis at IIT Guest houses. Participants may also book their accommodation at nearby hotels, lodges around IIT Roorkee. [Click here for more information](#)

**Last date of Registration:** This workshop has limited seats only. Request all participants to register for this course on or before 25 June 2022.

