

2025 Irish National Hydrology Conference

Tuesday 18th November – Hodson Bay Hotel, Athlone

Final Announcement

Introduction

The National Committees of the IHP/ICID invite you to Athlone for the 26th National Hydrology Conference to be held on **Tuesday 18th November 2025** at the **Hodson Bay Hotel**. This event is Ireland's leading conference devoted to hydrology, providing a unique forum for attendees to share policy developments, research results, and practical solutions to engineering hydrology and related issues.

Conference Themes

The annual conference brings together leading researchers and practitioners, from around Ireland and beyond, to exchange and share their experiences and research results on all aspects of Hydrology, including climate change, groundwater, fluvial hydrology and flood risk management. The IHP/ICID recognises the importance of understanding hydrological processes which determine the relationship between humans and the environment when quantifying environmental changes and extreme events. Therefore, it is imperative to discuss the impacts of extreme weather events and search for innovative climate resilient and sustainable solutions.

The themes of this year's conference will provide interdisciplinary platform for researchers, practitioners and educators to discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of flood forecasting, coastal and fluvial flooding, climate change, ground water modelling, water quality, drought and meteorology.

Organisers

International Hydrological Programme (IHP)

The UNESCO international scientific co-operative programme in hydrology and water resources (IHP) was established to act as a catalyst to promote co-operation and research in the management of water resources, an issue which had been identified as a significant limiting

factor for harmonious development in many regions and countries of the world.

International Commission on Irrigation and Drainage (ICID)

The mission of the ICID is to stimulate and promote the development of the management of water and land resources for irrigation, drainage, flood control and river training applications, including research and development and capacity building.

Conference Booking & Costs

The cost of attendance at the Conference is **€200** per person (with a limited reduced Student rate of **€60**), which includes refreshments and lunch. Invoices will be issued following receipt of registration forms requesting the reservation of a place. Receipts will only be issued if requested. Demand for places at previous Conferences has been high. Places are allocated on a first-come basis, and pre-booking is essential (using the registration form on this page).

Please note that there will be no refund or waiver of invoice for cancellations received later than **Friday, 14th November**.

2025 Irish National Hydrology Conference

Conference Opening

- 09:00 Conference Registration (Tea, Coffee & Pastries)
- 10:00 Welcome – **Kevin ‘Boxer’ Moran**, T.D., Minister of State for the Office of Public Works and Flood Relief.

Session I: Understanding Rivers

- 10:20 **Attributing and Scaling Climate Change Impacts on Floods Through Causal Chains**
Conor Murphy (*Maynooth University*)
- 10:40 **Limitations of period-of-record (POR) Flow duration curve (FDC) and its sensitivity to record lengths**
Uzzal Mandal (*WSP Ireland*), C. Cunnane (*NUIG*)
- 11:00 **Conference Poster Presentations**
Brief Introductions to posters on display in the exhibition area
- 11:50 **Discussion - Tea/Coffee**

Session II: Groundwater Modelling

- 12:20 **The story of 85 years of hindcasted groundwater levels across Ireland: trends and extremes**
Philip Schuler, et. al., (*CDM Smith SE, Germany*)
- 12:40 **Assessment of TRANSLATE Climate Projections for Accurately Representing Interannual Variability in Dry and Wet Conditions, and Implications for Groundwater Flood and Drought Modelling**
Joan Campanyà et.al., (*MKO Water Limited*)
- 13:00 **Modelling and Mapping Groundwater–River Tide Interactions**
Mohamad Soboh (*University College Cork*)
- 13:20 **Discussion - Lunch**

Session III: Groundwater Resources

- 14:40 **The chemical characteristics of Irish holy well waters and their potential links to health**
Bruce Misstear (*Trinity College Dublin*)
- 15:00 **Researching the role of Nature Based Solutions in Groundwater Hydrology and Water Resources Management**
Imogen Barnsley, et.al., (*JBA Consulting*)
- 15:20 **Discussion**
- 15:40 **Comfort Break**

Session IV: Complex Hydrological Processes

- 16:00 **Tracing moisture sources and sinks of five exceptional Irish landfalling Atmospheric Rivers**
Shafkat Sharif & Pete D. Akers (*Trinity College Dublin*)
- 16:20 **Forecasting of Compound Coastal-Fluvial Floods in Urban Built Environment**
Indiana Agnieszka Olbert, et al., (*University of Galway*)
- 16:40 **Discussion**
- 17:00 **Close**

09:00 – 15:30 Poster Exhibition

Posters will be on display in the exhibition area all day during the breaks in the conference programme.

Registration / Further Information

To register to attend the conference or to request further information, please complete the registration form and return (with payment to confirm a booking) to:

Contact: IHP/ICID Secretariat,
Office of Public Works, Head Office,
Trim,
Co. Meath, Ireland.

Tel: 046 942 2472

E-mail: nhc@opw.ie

All payments to be made by Electronic Fund Transfer (EFT)
BIC - DABAIE2D
IBAN - IE91DABA95167890052841
Please send remittance to receipts@opw.ie and reference the National Hydrology Conference.

Registration Form

Name:

Job Title:

Organisation:

Address:

Purchase Order No. (if applicable):

Tel:

Fax:

E-mail: