



Irish National Hydrology Conference 2017

Final Announcement

Tuesday, 21st November 2017

**Hodson Bay Hotel
Athlone, Co. Roscommon**

Introduction

The National Committees of the IHP/ICID invite you to Athlone for the 18th National Hydrology Conference to be held on Tuesday 21st November 2017 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 issues.

Organisers

International Hydrological Programme (IHP)

The UNESCO international scientific co-operative programme in hydrology and water resources, the 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.

Main Topics

It is important that this year's conference continues to play an important role in disseminating operational hydrology and hydrological research to practitioners and identifying research gaps in hydrological systems. Outcomes of hydrological and climate research informs practitioners on how to reduce uncertainty when estimating extremes, improves the assessment of the impacts of these, and the

development and improvement of flood risk mitigation, forecasting, and preparedness measures.

The conference will address, through papers/posters, issues relating to Hydrology under the following headings:

- ◆ Groundwater Recharge & Flooding
- ◆ Hydrological Modelling & Flood Forecasting
- ◆ Rainfall Analysis & Climate
- ◆ River Management, Flood Risk & Spatial Planning

Details are given in the conference programme on the following page.

Conference Booking & Costs

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). The cost of attendance at the Conference is €120 per person (with a limited Student rate of €40), which includes a Book of Proceedings on USB key, refreshments and lunch. Invoices will be issued following receipt of registration forms requesting the reservation of a place. Receipts will only be issued upon demand.

Please note that we regret that there will be no refund or waiver of invoice for cancellations received later than **Friday, 17th November**.



ICID-CID

United Nations
Educational, Scientific and
Cultural Organization

International
Hydrological
Programme



Conference Opening

- 09:00 Conference Registration (Tea, Coffee & Pastries)
- 10:00 Welcome – **Kevin Moran**, T.D., Minister of State for the Office of Public Works and Flood Relief.

Session 1: Groundwater Recharge & Flooding

- 10:20 [Climate change impacts on groundwater recharge to Irish fractured bedrock aquifers](#)
Elia Cantoni (*Trinity College Dublin*)
- 10:40 [Monitoring and Mapping groundwater flooding in Ireland](#)
Ted McCormack (*Geological Survey of Ireland*)
- 11:00 **Conference Poster Presentations**
Brief Introductions to posters on display in the exhibition area
- 11:30 **Discussion - Tea/Coffee**

Session 2: Hydrological Modelling & Flood Forecasting

- 12:20 [Assessing the validity of scaling catchment parameters from lumped to semi-distributed models](#)
Thibault Hallouin (*University College Dublin*)
- 12:40 [Development of a National-scale Hydrological Model utilising remote sensing](#)
Fiachra O'Loughlin (*University College Dublin*)
- 13:00 [Effective flood forecasting: lessons learned from international research and experience](#)
Emma Brown (*HR Wallingford*)
- 13:00 **Discussion - Lunch**

Session 3: Rainfall Analysis & Climate

- 14:30 [The importance of using Time Series Rainfall for analysis or design of sewerage systems](#)
Richard Kellagher (*HR Wallingford*)
- 14:50 [High Resolution Gridded Datasets of Hydro-Climate Indices for Ireland](#)
Christopher Werner (*Ireland's Centre For High End Computing*)
- 15:10 [Changes in precipitation extremes for Ireland, theoretical basis and future outlook](#)
Dr. Ciaran Broderick (*Maynooth University*)
- 15:30 **Discussion**
- 15:40 **Comfort Break**

Session 4: River Management, Flood Risk & Spatial Planning

- 15:55 [Positive effects on land use planning arising from the 2009 Flood Risk Management Guidelines](#)
David L'Estrange (*Conservation and Amenity Advice Service*)
- 16:15 [Mass Balance Assimilative Capacity Model of Inniscarra Reservoir](#)
Zeinab Bedri (*Dublin Institute of Technology*)
- 16:35 **Discussion**
- 16:45 **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

To register, please complete the registration form below and return (with payment to confirm a booking) to:

Contact: National Hydrology Conference
Hydrology & Coastal Section
Office of Public Works, Head Office
Trim
Co. Meath
Ireland

Tel: 046 942 6403

Email: nhc@opw.ie

All payments to be made by **Electronic Fund Transfer** using the following bank details.

BIC: DABAIE2D

IBAN: IE91DABA95167890052841

Please send remittance to receipts@opw.ie and ensure to use the reference 'National Hydrology Conference 2017'.

REGISTRATION FORM

Name:

Job Title:

Organisation:

Address:

P.O. No.
(if applicable):

Tel:

Email: