



Groundwater & Geotechnics

International Association of Hydrogeologists – Irish Group
Tullamore Court Hotel, Tullamore, Co Offaly
Tuesday 15th April – Wednesday 16th April 2025



Programme Day 1: Tuesday 15th April

08:30 – 09:30 Conference Registration: tea, coffee & exhibits

INTRODUCTION

09:30 – 09:45 Welcome: Ray Flynn (*President IAH Irish Group*)

SESSION I

09:45 – 10:20 **KEYNOTE 1:** Martin Preene (Coffey Geotechnics) *Groundwater Control for Large Infrastructure Projects*

10:20 – 10:50 Eric Farrell (AGL (Retired)): *Developing Practical Engineering Solutions to Dewatering Challenges*

10:50 – 11:05 *Q&A*

11:05 – 11:35 *Tea & Coffee*

SESSION II

11:35 – 12:00 Mike Long (UCD): *Case Histories: Subsidence induced by ground water pumping & lowering*

12:05 – 12:25 James Watson (OGI) *Early-stage identification, assessment, and mitigation of Groundwater and Geotechnical Risks during Construction*

12:25 – 12:45 Carl Gilbert & Conor Lydon (Tetra Tech): *Assessing Groundwater Risks from Large Stormwater Storage Tanks: A Conceptual Site Model Approach*

12:45 – 13:00 *Q&A*

13:00 – 14:00 *Buffet lunch in Tullamore Court Hotel*

SESSION III

14:00 – 14:40 **KEYNOTE 2:** Stephen Thomas (OGI) *Groundwater Engineering for Hydrogeologists and Geotechnologists*

14:40 – 15:00 Matt Craig (EPA): *Implementing the new Abstraction Licensing Regime*

15:00 – 15:20 Peter Murphy (Tetra Tech): *Landslide Geotechnical Remedial Design informed by multi-disciplinary investigation*

15:20 – 15:35 *Q&A*

15:35 – 16:05 *Tea & Coffee*

SESSION IV

16:05 – 16:25 Alison Orr (Arup): *Hydrogeological Assessments to develop Groundwater Flood Relief Measures.*

16:25 – 16:45 Mohamad Soboh (UCC): *Modelling and Monitoring the Groundwater Flood risk in Cork City*

16:45 – 17:05 Ted McCormick (GSI): *Groundwater Flooding at Lough Funshinagh, Co. Roscommon: Addressing the Knowledge Gaps*

17:05 – 17:20 *Q&A*

17:20 *Posters & Wine Reception*

19:00 *Social event sponsored by IAH – Irish Group*



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SESSION V

09:30 – 09:55 Farimah Fattahi Masrour (UCG): *Embankments over blanket peat in Co Donegal: interpretation of piezometer data*
09:55 – 10:15 Saeed Azadnejad (iCrag): *Use of Satellite Data (InSAR) to identify rail infrastructure subsidence on peat*
10:15 – 10:30 Early Career Winner: Sajjad Ahmad (TCD): *Hydro-geotechnical properties of peat bunds used in the restoration of raised bogs*
10:30 – 10:35 Early Career Runner Up: Shuoshuo Xu (UCD): *Design Optimization of Large-Scale Shallow Geothermal Systems for District Heating at UCD*
10:35 – 10:40 Early Career Runner Up: Oisín Leonard (UCG): *Remote Activation of Salt Tracer Injection to Enhance Discharge Measurements in a Peatland Catchment*
10:35 – 10:50 Q&A
10:50 – 11:20 Tea & Coffee

SESSION VI

11:20 – 11:45 Ken Scally (Normec) & Helder Costa (Haley & Aldrich, Inc., USA): *Decoding Coal Tar's Hidden Clues: Forensic Analysis of PAHs and Alkylated Homologs for Smarter Waste Identification at Contaminated Land Sites*
11:45 – 12:10 Mirsina Aghdam (WSP): *Natural Radionuclides as Tracers of River-Aquifer Interactions: A Novel Approach for Monitoring Surface Water Dynamics in Irish River Systems*
12:10 – 12:30 Paul Walker (Socotec): *Emerging Contaminants: Microplastics, the current state of knowledge*
12:30 – 12:45 Q&A
12:45 – 13:00 Conference Closing Address: Gerry Baker (Conference Secretary – IAH Group)
13:00 Buffet lunch in Tullamore Court Hotel