



## Groundwater & Nature Based Solutions

International Association of Hydrogeologists – Irish Group  
Tullamore Court Hotel, Tullamore, Co Offaly  
Tuesday 16<sup>th</sup> April – Wednesday 17<sup>th</sup> April 2024



### Programme Day 1: Tuesday 16<sup>th</sup> April

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

#### INTRODUCTION

09:30 – 09:45 Welcome: Gerry Baker (*President IAH Irish Group*)

#### SESSION I

09:45 – 10:15 **KEYNOTE 1:** Minister of State Malcolm Noonan TD

10:15 – 10:45 **KEYNOTE 2:** Dr Catherine Farrell *Nature Based Solutions*

10:45 – 11:00 *Q&A*

11:00 – 11:30 *Tea & Coffee*

#### SESSION II Nature Based Solutions

11:30 – 11:50 Peter Glanville: *Groundwater Dependent Terrestrial Ecosystems: River Channels and Floodplains, the importance of Physical Processes and Nature Based Solutions in the restoration of our river's biodiversity*

11:50 – 12:10 Sarah Collins: *Modelling the effectiveness of trees for flood risk reduction*

12:10 – 12:30 Pat Morrissey: *Groundwater & NBS: Water 4All*

12:30 – 12:45 *Q&A*

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

#### SESSION III Coastal & Alluvial Deposits

14:00 – 14:20 Ray Flynn: *Irish Alluvial Deposits: A sustainable water source, or not?*

14:20 – 14:40 David Ball: *Ireland's Links Golf Courses - successful provision of fresh water irrigation supplies from sands and gravels next to the coast - Part 1*

14:40 – 15:00 Richard Langford: *Ireland's Links Golf Courses - successful provision of fresh water irrigation supplies from sands and gravels next to the coast - Part 2*

15:00 – 15:20 **Early Career Award Winner:** Full presentation by winner

15:20 – 15:35 *Q&A*

15:35 – 16:00 *Tea & Coffee*

#### SESSION IV Groundwater Challenges

16:00 – 16:20 Carlos Rocha: *Quantitative overview of the contribution of SGD to coastal primary production at the global scale*

16:20 – 16:40 Hannah Lehnhart-Barnett: *Testing-the-waters: Prediction of high flow events in blanket bog catchments using Support Vector Machines (SVM) for automated event water sampling*

16:40 – 17:00 Auke Barnhoorn: *A Research and Energy Production Geothermal Project On The TU Delft Campus: Project Implementation And Initial Data Collection*

17:00 – 17:20 Vicky Preece: *Nature based solutions – Overcoming the challenges of collecting reliable baseline data in remote environments*

17:20 – 17:35 *Q&A*

17:35 *Posters & Wine Reception*

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



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### Programme Day 2: Wednesday 17<sup>th</sup> April

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

#### **SESSION V Peatland**

09:30 – 09:50 Francis Makin: *Peatland restoration in Ireland: a powerful nature based solution*

09:50 – 10:10 Laurence Gill: *Peatland restoration issues & problems*

10:10 – 10:30 Bryan McCabe: *Surcharging of peat – an alternative to excavate and replace*

10:30 – 10:50 Duncan Dodge: *Natural Source Zone Depletion: Learnings from Field Scale Assessment on an Operational Facility*

10:50 – 11:05 Q&A

11:05 – 11:30 Tea & Coffee

#### **SESSION VI Final Session**

11:30 – 11:50 **Early Career Short Presentations:** c.3 min presentations

11:50 – 12:10 Berry Lyons & Anne Carey: *"Urban Karst" & the impacts of leaky pipes on groundwater & river chemistry*

12:10 – 12:30 Bruce Misstear: *Wells and Wellbeing: Writing a book about holy wells in Ireland*

12:30 – 12:45 Q&A

12:45 Conference Closing Address: Tiernan Henry (Conference Secretary – IAH Group)

13:00 Buffet lunch in Tullamore Court Hotel

14:30 – 16:00 Possible Exhibitor Demonstrations (to be confirmed)