



Groundwater matters: science and practice

Tuesday 24th –
Wednesday 25th
April 2018

Tullamore Court Hotel
Tullamore
Co. Offaly

PROGRAMME

DAY 1: 24th April 2018

08:30 Registration, tea/coffee, exhibits

09:30 Welcome: Henning Moe, President IAH Irish Group

Opening Address by Seán Kyne, TD, Minister for Natural Resources

Launch of the Open Topographic Data Viewer by Koen Verbruggen & Shane Carey, GSI

SESSION I: Keynote

10:00 Geoff Parkin (Newcastle University, UK): *The citizen hydroscientist – benefits and challenges for hydrogeology*

10:30 Q&A

10:45 Refreshments

SESSION II: Groundwater flooding

11:15 Ted McCormack (GSI): *Satellite flood mapping: New approaches for monitoring and mapping groundwater flooding in Ireland*

11:35 Patrick Morrissey (TCD/GSI): *Modelling groundwater flooding. A unique challenge requiring a novel solution: a case study of south Galway*

11:55 Coran Kelly (GSI/Tobin Consulting Engineers): *Water tracing: Lifting the lid in the Neale, the Mayo Deel and the Rathcroghan Uplands*

12:15 Pat Roberts (McCarthy Keville O'Sullivan Ltd.): *A Habitats & EIA Directive perspective on hydrological/hydrogeological assessment – Are there any simple answers?*

12:35 Q&A

12:50 Lunch

SESSION III: Groundwater flow controls

14:00 John Murray (NUIG): *Waulsortian Limestone: geology and hydrogeology*

14:20 John Walsh (UCD): *Structural controls on groundwater flow – from field studies through to 3D modelling*

14:40 John Paul Moore (UCD): *Parameterising the impacts of Cenozoic fractures on groundwater flow in Irish bedrock*

15:00 Yvonne O'Connell (APEX): *Geophysical investigation of structural groundwater pathways*

15:20 Q&A

15:35 Refreshments

SESSION IV: Early Career Hydrogeologists Network

16:00 Luisa Andrade (UCD): *FloodRisk2WellWater: A socio-hydro(geo)logical approach for mitigating flood-triggered groundwater contamination*

16:15 Laura McGrath (ARUP): *Chemical analysis of groundwater focusing on potential arsenic contamination of drinking supply boreholes in Chikwawa, Malawi*

16:30 Damien Mooney (iCrag/TCD/Teagasc): *Agro-chemicals in Irish groundwaters: preliminary findings of anthelmintic drug occurrence in Irish karst and fractured aquifers*

16:45 Lea Duran (iCrag/TCD): *Karst "open heart surgery": time series analysis methods and visualisation*

17:00 Q&A

17:15 Poster Presentation & Wine Reception

19:00 Social Event: Hugh Lynch's Bar

DAY 2: 25th April 2018

08:30 Tea/coffee, exhibits

SESSION V: Keynote

09:00 John McCray (Colorado School of Mines, USA): *Engineered streambeds for water quality enhancement in urban streams*

09:30 Q&A

SESSION VI: Impacts of landuse pressures on groundwater I

09:45 Cormac O'Suilleabhain (Cork Co. Council): *The remediation of the east tip on Haulbowline Island*

10:05 John Paul McEntee (Monaghan Co. Council): *Planning and development within a karst dominated landscape in County Monaghan: Case studies and experiences*

10:25 Eoin McAleer (RPS): *Groundwater nitrate attenuation versus dissolved gas production: A hierarchy of scale*

10:45 Q&A

10:55 Refreshments

SESSION VII: Impacts of landuse pressures on groundwater II

11:20 Sarah-Louise McManus (TCD): *Pesticides and metabolites in groundwater*

11:40 Jean O'Dwyer (UCC): *Groundwater as a source and pathway for antibiotic-resistant infection in the Rep. of Ireland*

12:00 Julie-Anne Naughton (DIT): *Cryptosporidium in Irish waters: risk, prevalence and intervention*

12:20 Q&A

SESSION VIII: Borehole operations – pumping efficiency and treatment needs

12:30 John Calder (Dura Pump, UK): *Effective and efficient pump systems*

12:50 David Ball (Independent consultant): *A proposed classification of water supply boreholes in Ireland based on treatment requirements*

13:10 Q&A

13:20 Conference closing – Philip Schuler, Conference secretary IAH Irish Group

13:25 Lunch

Site visit

14:30 Malcolm Doak (Irish Water): *Ardan Tullamore Wellfield (limited number of attendees!)*

16:30 End of conference