



IRISH GEOLOGICAL RESEARCH MEETING 2025

Hosted by

Geology, School of Natural Sciences, Trinity College, Dublin

February 28th to March 2nd 2025



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin



IGRM 2025 Venues

Ocean Drilling workshop Friday afternoon: Museum Building, Trinity College, Dublin

Registration Friday: Kennedy's Bar & Restaurant, 30-32 Westland Row, Dublin, D02 DP70

Registration Saturday: Arts Block, Trinity College, Dublin

Talks: Edmund Burke Theatre, Arts Block, Trinity College, Dublin

Posters: Area outside the Edmund Burke Theatre, Arts Block, Trinity College, Dublin (posters can be put up on Saturday morning and taken down on Sunday at the end of the meeting)

Friday evening icebreaker reception: Kennedy's Bar & Restaurant, 30-32 Westland Row, Dublin, D02 DP70

Saturday IGRM dinner: Harbourmaster Bar & Restaurant, Customs House Dock, IFSC, Dublin, D01 W0X8

Click on the [link](#), or scan the QR code for an interactive map of the IGRM venues and other places of interest:





IGRM 2025 Programme

Friday

14:00	17:00	Irish Scientific Drilling Meeting, Trinity College Dublin, Musuem Building	
17:00	19:00	Registration and ice-breaker, Kennedy's Bar and Restaurant (downstairs)	
19:30	20:30	Keynote Lecture, Edmund Burke Theatre, Arts Block, Trinity College, Dublin	
		Prof Gavin Foster	Past, Present and Future of Stable Isotopes in Palaeoclimate
		University of Southampton	

Saturday

9:00	9:50	Registration	
9:55	10:00	Opening Remarks	

Saturday Session 1: Paleoenvironment

10:00	10:15	Micha Ruhl	Timing of the end-Triassic mass extinction and global carbon cycle change
10:15	10:30	Antonietta Knetge	Regional vegetation response to the end-Triassic mass extinction at the Jameson Land Basin, East Greenland
10:30	10:45	Blanka Kovacs	Astronomical modulation of enhanced environmental mercury (Hg) fluxes during early Toarcian LIP volcanism
10:45	11:00	Amanda Perera	Orbital time scale calibration of the early Jurassic Sinemurian-Pliensbachian boundary event and global carbon cycle perturbation: Cheshire Basin, UK (ICDP JET Project)

11:00	11:15	William .J. Matthaesus	Trait-based paleo-ecosystem simulations reveal shifting forest cover across the Triassic-Jurassic biotic crisis
11:15	11:30	Catarina Barbosa	How counting method influences the interpretation of paleoecological data
11:30	12:00	Break & Posters	
12:00	12:15	Georgia Ballabio	Variation in chemical weathering intensity in response to large igneous province volcanisms across the Early Jurassic: Osmium isotope record from the UK Prees and Mochras Boreholes
12:15	12:30	Clara Crowell	Constraining palaeo-ice sheet thickness during the last glaciation of Ireland using in situ cosmogenic ¹⁰ Be and ¹⁴ C
12:30	12:45	Nikata Turton	Assessing volcanic influence on clay minerals as weathering proxies during the Paleocene-Eocene Thermal Maximum from Modgunn Hydrothermal Vent (IODP Expedition 396)
12:45	13:00	Matthias Sinnesal	Deep-time astronomical cycles in Ireland
13:00	14:30	Lunch	

Saturday Session 2: Geoscience & Society

14:30	14:45	Subhash Chandra & Rose Dunne	Ireland's Knowledge Centre for Carbon, Climate and Community Action: A Call to the Geoscience Community on the Island of Ireland
14:45	15:00	Jess Franklin	Engaging adult audiences with geoscience
15:00	15:15	Laura Reilly	What is the QuakeShake Outreach Programme? How are earthquakes being brought to the attention of Irish society?
15:15	15:30	Michael Dempster	Scrabo Area of Special Scientific Interest - geoconservation and geosite management
15:30	15:45	Paul Dunlop	Research insights into the cause of Ireland's defective concrete crisis
15:45	16:00	Tiernan Henry	Down to the river: building resilience and characterising natural solutions to baseflow maintenance and flood mitigation in a catchment in the Burren, Co Clare, Ireland
16:00	16:15	Aoife Braidon	The GEMINI Project: supporting a new geothermal sector for the island of Ireland
16:15	16:45	Break & Posters	

Saturday Session 3: Flash Talks (short 3-minute talks, with 1 minute for speaker handover)

16:45	16:48	Seán Jordan	GenesisLinks: From the origin of life on Earth to the search for life on Mars
16:49	16:52	Jean Baptiste Tary	Can individual Bryde's whales be identified using ocean bottom instrument data and machine learning?
16:53	16:56	Nick O'Neil	The Theology of Extraction
16:57	17:00	Tarig Mohamed	Towards an Early Warning Groundwater Drought Modelling Ensemble: Understanding Aquifer Responses to Climate Extremes Across Irish Catchments
17:01	17:04	Audrey Recouvreur	Seismic facies and geometries of Tropic Seamount: Where are the sediments?
17:05	17:08	Bernard Asare Owusu	Determining the subsurface temperature at Krafla, Northern Iceland through joint inversion of seismic, elevation, heat flow, and thermal data
17:09	17:12	Eshbhal Geifman	Assimilation-Induced Outcrop Scale Liquid Immiscibility in the Portrush Sill, Northern Ireland
17:13	17:16	Ruairi O'Neill	Review of Standard Test Methods for Assessing Fines Quality of Aggregates.
17:17	17:20	Paulo Rodriguez	Preliminary cosmogenic ¹⁰ Be surface-exposure dating of glacial deposits in the Gaddah Valley, McGillicuddy Reeks, Ireland: Implications for late glacial climate variability.
17:21	17:24	AnnaMei Chan-Kinsella	The Identification and Delineation of Candidate Turloughs with Very Small Plan Areas from High Resolution Remote Sensing Data
17:30	18:30	Posters	

Saturday Session 4: Keynote Lecture

18:30	19:30	Prof Frances Wall University of Exeter	Critical Rare Earths
20:00	Late	IGRM Dinner	Harbourmaster Bar & Restaurant, Customs House Dock, IFSC Dublin 1, D01 W0X8

Sunday

09:15 09:35 Registration

09:40 09:45 Opening Remarks

Sunday Session 1: Contemporary Environment

9:45 10:00 Jerry Dickens Massive carbon input and hydrothermal vent complexes: present-day observations suggest the link lies through an accelerated hydrological cycle

10:00 10:15 Leon Berry-Walsh Using Distributed Fibre Optic Sensing to Monitor the Seismo-Acoustic Noisefield in Galway Bay

10:15 10:30 Gregor Rink A combined cosmogenic-photogrammetric approach to quantifying and identifying drivers of rocky coastline erosion

10:30 10:45 Quentin Crowley Use of UAVs in the Geosciences

10:45 11:00 Emma Chambers Subsurface temperature models of Ireland from joint geophysical-petrological-lithological inversion

11:00 11:15 Ray Scanlon Tellus: New regional topsoil geochemical data released for the southeast of Ireland

11:15 11:45 Break & Posters

Sunday Session 2: Igneous & Economic Geology

11:45 12:00 Jack Beckwith Multi-Stage Inflation and Mineralisation within the Carlingford Complex Layered Intrusion, Ireland

12:00 12:15 Eshbal Geifman Rare Earth Element Indicators of Assimilation in Magmas of the British and Irish Paleogene Igneous Province

12:15 12:30 La Donna Fredricks Geometry, nature and timing of inversion structures at the Rapla Prospect, Rathdowney Trend, SE Ireland

12:30 12:45 Anna Morrison A national survey of the Platinum Group Element abundance in the Irish lithospheric mantle

12:45 13:00 Hilde Koch Critical Raw Material Prospectivity Mapping in the north of Ireland

13:00 14:30 Lunch

Sunday Session 3: Geochemistry, Geochronology & Geostatistics

14:30	14:45	Carlos Corella Santa Cruz	Developing matrix-matched reference materials for in situ Rb-Sr geochronology: twists, turns and new candidates
14:45	15:00	Veronica Peverelli	Advancements in epidote U-Pb geochronology by LA-ICP-MS
15:00	15:15	Tom Manzocchi	A 3D bed-resolution model of the Ross Sandstone Formation around Loop Head
15:15	15:30	Ian Sanders	Magma mingling and platy pyroxene in an ancient andesitic meteorite, Erg Chech 002
15:30	16:00	Prizes and Closing Remarks	



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