

iCRAG@10 Poster Presentations

O'Reilly Hall, UCD

13th of February 2025

Post no.	Researcher name:	Poster title:
1.	Gregor Rink	Variations of rocky coastline erosion in different coastal environments
2.	Clara Crowell	Investigating landscape change in Ireland: Using in situ cosmogenic ¹⁰ Be and ¹⁴ C to search for paleonunataks
3.	Guillaume Hug	Mid-20th Century Atlantic Circulation informed by Modern Observations and Models
4.	Jason McFadden	Multi-Criteria Decision-Making and Constraint Mapping supporting Irish West Coast Offshore Floating Windfarm Development Options
5.	Delivering MESSAGE - the Marine & Energy Social Sciences & Humanities Interdisciplinary Research Group	
6.		
7.	Josie Taylor	Community Energy Narratives and Coastal Change in Ireland
8.	Ankit Swaraj	Assessment of Primary Productivity and Respiration in the Northeast Atlantic Ocean: Using a combination of isotope data, in situ glider observations, and satellite ocean colour.
9.	Kevin McGraw	Upper Ocean Profiling of an Algal Bloom in the Labrador Sea by ASIP
10.	Peter Croot	iCRAG Research in the Open Ocean: primary productivity and carbon cycling in blue waters
11.	Rachel Healy	Episodic changes in marine invertebrate communities as a possible response to a Holocene transgression.

12.	Isuri Weerasinghe	Diel vertical distribution of deep-water sound scattering layers in the Whittard Canyon, NE Atlantic
13.	Florian La Pape	The influence of continental margins over secondary microseisms recorded on land
14.	David Craig	Mapping of noise sources areas and trialling of noise correlation methods in the marine environment, offshore Ireland
15.	Dmitry Molodtsov	Imaging Ireland's lithosphere by 3D joint inversion of magnetotelluric, seismic, gravity and magnetic datasets
16.	Duygu Kiyan	Magnetotelluric Imaging of the Lithospheric Structure of the Island of Ireland
17.	Mendgi Pan	Exploring the effects of Magnetic Field on Methane gas hydrate formation
18.	Nicolas Celli	Detection and Monitoring Groundwater flow in Karst using distributed acoustic sensing
19.	Niladri Chowdhury	Karst spring discharge simulation using pipe network model and machine learning
20.	Somaye Bayat	Seismic Detection of Deep Water-filled Caves in Karst Systems: Defining Fingerprint characteristics Using Synthetic Seismic Simulations.
21.	Muhammad Saqlain	Monitoring Railway Embankment Condition Through Seasonal Changes Using DAS Active Seismic Surveys
22.	Paul Guyett	Optimizing SEM-EDX for fast, high-quality and non-destructive elemental analysis of glass
23.	Quentin Crowley	Advances in Drone-Based Radiometric Mapping.

24.	Thomas Austin	Benchmarking a New 3D Distinct Element Method Model of Pre-Caldera Collapse Deformation
25.	Andrea Pierozzi	Understanding and replicating natural carbonate concrete: the case study of Sverrefjellet Volcano (Svalbard, Norway)
26.	Mehran Khan	Development of Low-Carbon 3D Printed Concretes: A Sustainable Future in Construction
27.	Murat Sahin	Decarbonization of concrete construction using low carbon concrete
28.	David Igoe	Numerical Modeling of Driven Pile Installation and Post-Installation
29.	Tuhin Chakraborti	Micro CT analysis of asphalt mastic and implications for the sustainability and durability of roads within Irish National network
30.	Adam Mann	Engineering behaviour of the Irish Sea Till in the Rosslare area
31.	Aohui Ouyang	A two-stage crack monitoring method for large-scale tunnel complex
32.	Asad Wadood	Development and deployment of a concrete jacking pipe with fibre optic strain sensors
33.	Claire Geel	Pyrite geochemistry of the Aljustrel deposit in the Iberian Pyrite Belt, Portugal
34.	Elena Geiger	From mineral to prospect scale: Exploring pegmatite halos for lithium discovery
35.	Livia Paula Vaz Teixeira	From micro to macro: trace element LA-ICP-MS imaging in critical raw metal exploration
36.	Maurice Brodbeck	Development of Critical Raw Materials in Porphyry Copper Ores – Exsolution and Replacement Processes in the Spotlight

37.	Oluwayemisi Olomo	The perceived need for Critical Raw Materials
38.	Lucy Blennerhassett	Developing a public engagement toolkit targeting critical raw materials and the EU Green Deal for use at informal educational settings
39.	Malena Cazorla Martinez	Sourcing cobalt in the Central African Copperbelt
40.	Nanyu Wei	Petrophysical characterization of the Lisheen Zn-Pb deposit
41.	Patrick Smith	TARASEIS: Tara Mines Seismic Monitoring
42.	Kerstin Drost	Geochemistry WP2 New analytical methods employing triple-quad mass spectrometry
43.	Melanie Maddin	Alteration of siderite (FeCO_3) in the presence of multi component rare earth element (REE) aqueous solution at hydrothermal conditions (50-205 °C)
44.	Juan Diego Rodriguez-Blanco	Temporal growth of epitaxial layers in the CaCO_3 – REECO_3OH system during mineral replacement processes.
45.	Luca Terribili	Novel kinetic and mechanistic findings into the FLUORITE-FLUOCERITE-BASTNASITE transformation reaction.
46.	Hannah Othen	Using sequence stratigraphy and facies correlation to analysis basin bounding fault systems within the Irish Mississippian
47.	La Donna Fredericks	Geometry, nature and timing of inversion structures in the southeastern portion of the Irish Orefield

48.	Prithwijit Chakraborti	Application of Deep Generative Model-Based 2D Gravity Inversion for Improved Subsurface Characterization in Limerick Basin (Ireland)
49.	Victoria Figueira Susin	A seismic and petrophysics-guided approach to subsurface characterization of the NW Limerick Syncline
50.	Florian Le Pape	Generation and Propagation of Ocean Waves Induced Seismic Noise Offshore Ireland
51.	Pablo Rodriguez Salgado	GEONORM: Characterisation of Geothermal Resources at UCD Campus.
52.	Rioko Moscardini	Facies control on the vertical change in reservoir quality, in the Triassic Sherwood Sandstone Group, Kilroot GT-01 borehole, Northern Ireland
53.	Vincent Roche	National Geothermal Database: Basin-scale 3D modelling for derisking geothermal assessment
54.	Marcos Oliveira Amores	What geochemistry and plant microfossils tell us about the aftermath of Earth's largest mass extinction
55.	Amanda Perera	Astronomical time scale calibration of the end-Triassic mass extinction global carbon cycle perturbation, and Early Jurassic recovery (Larne Basin, Northern Ireland)
56.	Nikita Turton	Assessing the influence of volcanoclastics on clay mineral assemblages during the Paleocene-Eocene Thermal Maximum from Modgunn Hydrothermal Vent (IODP Expedition 396)
57.	Julie O'Donovan	Using sedimentary records to track AMR in lake systems through time
58.	Emilia Palenius	Preliminary observations of biogeochemical processes in the hyporheic zone of an agricultural Stream

59.	Rosie Carroll	Co-Creating Solutions: Addressing Societal Challenges Through Participatory Action Learning and Action Research (PALAR)
60.	Morad Mirzaei	The role of grassland swards and nitrogen sources in driving nitrous oxide (N ₂ O) emissions in intensively managed grassland systems
61.	Sate Ahmad	ESTIMATING CANOPY TRANSPIRATION IN UPFLOW WILLOW TREATMENT SYSTEMS
62.	Eoghan Holohan	Decades-long subsidence induced by groundwater drainage at Clara raised bog, Ireland, detected from satellite through L-and C-band InSAR
63.	Mahdi Khoshlahjeh Azar	Peatland Dynamics in Ireland: Insights from RADAR Remote Sensing
64.	Sajjad Ahmad	Hydrological Modelling of Bogs for restoration purposes : AllSaint Bog Case study
65.	Alexis Hrysiewicz	EZ-InSAR-3: A Python Easy-to-use Open-source Environment for Mapping Ground Surface Deformation using Satellite Interferometric Synthetic Aperture Radar
66.	Alexis Hrysiewicz	InSAR-derived European Ground Motion Service Measurements for Irish and British Temperate Peat-soil Monitoring
67.		EDI committee poster
68.		IAWG