Programme

iCRAG 2019 - Resources for a Sustainable Future

08.00-09.00 Registration in the Hogan Mezzanine (Level 4), Croke Park
Tea and Coffee

Opening Session
Mezzanine I & II

09.00-09.05 Welcome - Professor John Thompson, PetraScience Consultants (Master of Ceremonies)

09.05-09.25 iCRAG: Solutions for Sustainability - Professor Murray Hitzman, Director of iCRAG

09.25-09.55 Keynote Address: Geoscience, Earth Change, and Society - Dr Elizabeth Eide, Director - Board on Earth Sciences and Resources, The National Academies of Sciences, Engineering and Medicine

09.55-10.30 Keynote Address: Responsible Mining for a Sustainable Future? - Dr Sarah Gordon, CEO - Sataria

10.30-11.00 Poster Session with Refreshments

iCRAG: Research for a Sustainable Future
Mezzanine I & II

11.00-11.15 iCRAG Groundwater: Advances in Understanding Water Resources for both Human Supply and Ecological Habitats - Professor Laurence Gill (TCD)

11.15-11.30 iCRAG Raw Materials: Improved Models for the Origin and Discovery of Mineral and Aggregate Deposits - Professor John Walsh (UCD)

11.30-11.45 iCRAG Geomarine: Safeguarding Marine Resources for Sustainable Development - Professor Andy Wheeler (UCD)

11.45-12.00 iCRAG Energy Security: Providing Insight into Resources, Risks and Long-term Environmental Change - Dr Shane Tyrrell (NUIG)

12.00-12.15 iCRAG Geophysics: Enabling Methodologies for a Sustainable Future - Professor Chris Bean (DIAS)

12.15-12.30 Public Perception and Acceptance of the Extractive Industry in Ireland - Dr Geertje Schuitema (UCD)

12.30-12.45 Testing Negative C Emission Technology via Enhanced Chemical Weathering in an Irish Agricultural Context - Professor Jennifer McElwain (TCD)

12.45-13.00 iCRAG Geohazards: Engineering Offshore Solutions - Dr Mark Coughlan (UCD)

13.00-13.15 iCRAG 2019 Lightning Talk Competition - Researchers will present their research in just 90 seconds each!

13.15-14.15 Poster Session with Lunch

iCRAG: Technical Snapshots

Four parallel sessions giving technical snapshots from a range of iCRAG research projects.

Parallel Sessions

Mezzanine I

14.15-14.30 Expanding the Explorer’s Toolbox: Geochemical Applications for Earth Resources - Dr Sean Johnson (UCD)

14.30-14.45 Integrated 3D Geological Modelling and Data Analysis of the Irish Carboniferous - Dr Koen Torremans (UCD)

14.45-15.00 Structural Framework of the Irish Lower Carboniferous and the Kinematics of Associated Faulting - Dr John Conneally (UCD)

15.00-15.15 The ‘Blue Book’ Revamped: Towards a Tectono-stratigraphic Framework of the Tournaisian & Viséan of Ireland - Robert Doyle (UCD)

15.15-15.30 Pathfinders Towards Mineralization: The Application of Mineral Chemistry and Isotope Analysis to Exploration - Aileen Doran (UCD)

15.30-15.45 Lithium Pegmatites in Ireland: A Storehouse for Critical Metals - David Kaeter (UCD)

Mezzanine II

14.15-14.30 From Rifting to Hyperextension: The Upper Jurassic - Cretaceous Succession of the Porcupine Basin, Irish Atlantic Margin - Lewis Whiting (UCD)

14.30-14.45 Structural and Kinematic Analysis of the Slyne Basin: Exploring the Links between Structural Evolution, Salt Tectonics and Trap Formation - Conor O’Sullivan (UCD)

14.45-15.00 Cenozoic Exhumation in the Celtic Sea Basins (Offshore Ireland) from a Multidisciplinary Approach - Pablo Rodriguez Salgado (UCD)

15.00-15.15 Sediment Supply to Irish Carboniferous Basins: Insights into Ancient Climate and Landscapes - Martin Nauton-Fourteu (NUIG)

15.15-15.30 Hierarchical Compression-based Reservoir Modelling: A New Workflow for Realistic Reservoir Models - Dierdre Walsh (UCD)

15.30-15.45 Understanding and Modelling the Shallow Plumbing System of Geological Fluids - Dr Tom Manzocchi (UCD)

Please note parallel sessions continue on next page
14.15-14.30 Insights on the Passive Ocean Seismic Noise Generation, Offshore Ireland - Dr Florian Le Pape (DIAS)

14.30-14.45 Assessment of Ocean Noise in the Irish Offshore: Tracking Anthropogenic Influence - Eoghan Daly (NUIG)

14.45-15.00 Understanding the Geotechnical and Hydrological Response of Intact Upland Blanket Bog to Wind Farm Construction: A Detailed Case Study in Co. Cork, Ireland - Eileen McCarthy (UCC)

15.00-15.15 Uncovering Karst Groundwater: A 3D Hydrogeological Modelling of an Irish Karst System - Dr Lea Duran (TCD)

15.15-15.30 Geogenic Contamination of Irish Groundwater - Alex Russell (UCD)

15.30-15.45 Groundwater Resources as Reservoirs for Antimicrobial Resistance - Luisa Andrade (UCC)

15.45-16.15 Poster Session with Refreshments

16.15-17.00 Keynote Address: The Myopia of a Carbon-Only Lens - Professor Scott Tinker, Director - Bureau of Economic Geology, The University of Texas at Austin

17.00-17.30 Panel Discussion: Challenges and Opportunities for iCRAG Going Forward

17.30-19.00 Poster Session with Refreshments