



## Monday 2nd December 2019

Croke Park, Jones' Rd, Drumcondra, Dublin 3

## 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	<b>Keynote Address: Geoscience, Earth Change, and Society</b> – 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 - Satarla		
10.30-11.00	Poster Session with Refreshments		
	iCRAG: Research for a Sustainable Future		
	Mezzanine I & II		
	An overview of the key outcomes and impacts from each of iCRAG's research challenges including new challenges which have been added as iCRAG continues to evolve.		
11.00-11.15	iCRAG Groundwater: Advances in Understanding Water Resources for both Human Supply and Ecohydrological 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 (UCC)		
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	<b>Testing Negative C Emission Technology via Enhanced Chemical Weathering in an Irish Agricultural Context</b> - 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.		
	Earth's Resources: Raw Materials Mezzanine I Mezzanine I		
14.15-14.30	Expanding the Explorer's Toolbox: Geochemical Applications for Earth Resources - Dr Sean Johnson (UCD) From Rifting to Hyperextension: The Upper Jurassic - Cretaceous Succession of the Porcupine Basin, Irish Atlantic Margin - Lewis Whiting (UCD)		
14.30-14.45	Integrated 3D Geological Modelling and Data Analysis of the Irish Carboniferous - Dr Koen Torremans (UCD) Structural Framework of the Irish Lower Carboniferous - and the Kinematic Analysis of the Slyne Basin: Exploring the Links between Structural Evolution, Salt Tectonics and Trap Formation - Conor O'Sullivan (UCD) Cenozoic Exhumation in the Celtic Sea Basins		
14.45-15.00	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)Description Sediment Supply to Irish Carboniferous Basins: Insights into Ancient Climate and Landscapes - Martin Nauton-Fourteu (NUIG)		
15.15-15.30	Pathfinders Towards Mineralization: The Application of Mineral Chemistry and Isotope Analysis to Exploration - Aileen Doran (UCD)Hierarchical Compression-based Reservoir Modelling: A New Workflow for Realistic Reservoir Models - Deirdre Walsh (UCD)		
15.30-15.45	Lithium Pegmatites in Ireland: A Storehouse for Critical Metals - David Kaeter (UCD) Understanding and Modelling the Shallow Plumbing System of Geological Fluids - Dr Tom Manzocchi (UCD)		

	iCRAG: Technical Snapshots (continued)		
	Earth System Change Davin Suite	Earth Science in Society Nally Suite	
14.15-14.30	Insights on the Passive Ocean Seismic Noise Generation, Offshore Ireland - Dr Florian Le Pape (DIAS)	<b>Building Materials: Expanding Potential</b> - Dr Robbie Goodhue (TCD)	
14.30-14.45	Assessment of Ocean Noise in the Irish Offshore: Tracking Anthropogenic Influence - Eoghan Daly (NUIG)	Underground Space Technology: From Past to Future - Dr Zili Li (UCC)	
14.45-15.00	Understanding the Geotechnical and Hydrological	GeoPlan: A New Engagement Framework for Decision-making on Coastal Geohazards - Dr Mick Lennon (UCD)	
15.00-15.15	Uncovering Karst Groundwater: A 3D Hydrogeological Modelling of an Irish Karst System - Dr Lea Duran (TCD)	Fostering Sustainable Communities with Improved Public Health through Knowledge of Radon Risk - Dr Quentin Crowley (TCD)	
15.15-15.30	Geogenic Contamination of Irish Groundwater - Alex Russell (UCD)	Engaging for Our Sustainable Future - Elspeth Wallace (UCD)	
15.30-15.45	Groundwater Resources as Reservoirs for Antimicrobial Resistance - Luisa Andrade (UCC)	Fostering Dialogue: Comparing Geoscientists' and Non-geoscientists' Thoughts and Feelings About Geoscience - Dr Anthea Lacchia (UCD)	
15.45-16.15	Poster Session with Refreshments		
	Mezzanine I & II		
16.15-17.00	<b>Keynote Address: The Myopia of a Carbon-Only Lens</b> - Professor Scott Tinker, Director - Bureau of Economic Geology, The University of Texas at Austin		
	Panel Discussion: Challenges and Opportunities for iCRAG Going Forward		
	Mezzanine I & II		
17.00-17.30	A summary of the highlights from each session of the day, closing with panelists giving their insights into the ke challenges and opportunities facing iCRAG going forward.		
17.30-19.00	Poster Session w	ith Refreshments	

