

**GEOSCIENCE 2010 Conference, Dublin Castle****Day 1: 3 November 2010 Theme: INFOMAR & Marine Research****08.00 – 09.00** Registration**09.00 – 09.10** **Welcoming Address**, Dr. Peadar McArdle, Director GSI**09.10- 09.20** **Official Opening**, Mr. **Conor Lenihan**, Minister of State**Session 1** **INFOMAR 2010** *Chair. Mr Tommy Furey, MI***09.20- 09.40** Setting the Scene, Marine/Geoscience/INFOMAR. K. Verbruggen**09.40-10.20** R/V Keary, first full year. S. Cullen, GSI**10.20-10.40** Lidar through the ash cloud. A. Waddington, Pelydryn Ltd**10.40-11.00** **Coffee Break & Posters****11.00-11.30** **Keynote Speaker: Discovering Earth's Hidden Frontiers through Scientific Ocean Drilling**, Gilbert Camoin, Senior Researcher at CNRS, France, ex- Chair Science Support and Advisory Committee of European Consortium on Ocean Research Drilling)**Session 2** **Seabed Mapping** *Chair. Dr Peter Heffernan, MI***11.30- 11.50** Ireland's Deepwater Atlas. Andy Wheeler, UCC**11.50- 12.10** Geogenic Reefs & candidate SACs. J. Guinan**12.10-12.30** Improving seabed mapping from marine acoustic data. U.Demsar, NUIM**12.30-12.50** New seabed geological map of the Porcupine Bank & seabed mapping update. X Monteys, INFOMAR**12.50.-13.10** The importance of the permanent thermocline to the Cold water Coral mound distribution in NE Atlantic. M. White, NUIG & B. Dorschel, UCC**13.10-14.00** **Buffet Lunch & Posters****Session 3** **Research Highlights (15 min updates)** *Chair:Mr Fergal McGrath, MI***14.00 – 14.15** Investigating the provenance of ice-rafted debris on the Irish Atlantic Margin using the Pb isotopic composition of detrital K-feldspar. S.Tyrell, UCD**14.15-14.30** Towards a new virtual core lab (UCD/TCD/ NUIM) S. McCarron**14.30-14.45** Multi-Spectral Backscatter: the Extra Dimension in Seafloor Classification, Garret Duffy, NUIG**14.45-15.00** EO & Submarine Groundwater Discharge. J Wilson, TCD**15.00-15.15** A Flexible Seabed Survey Platform, ROV Latis. D.Toal et al, UL**15.15-15.30** Geomorphology of the Irish Rockall Trough mapped from INSS improved multibeam bathymetric and backscatter dataset. F. Sacchetti, UU Coleraine**15.30 – 15.45** GLAMARous RIDGES: glaciation of the Celtic Sea. D. Praeg, OGS, Italy**15.45-16.00** Simulating Marine Environments – Virtual Galway Bay (RealSIM / NUIG) Gavin Duffy**16.00-16.30** **Coffee Break & Posters****Session 4** **Adding Value** *Chair:Mr Koen Verbruggen, GSI***16.30 – 16.50** INFOMAR, EU Projects & Added Value. T. Furey, INFOMAR**16.50 – 17.10** Ocean Energy - Building Blocks & Barriers, H. Applebee, Tonn Energy**17.10 – 17.30** MI Fisheries Research & INFOMAR (Colm Lordan, MI)**17.30 – 17.50** Irish Marine research in the Bigger Picture. Y. Shields, MI**18.30** **Sponsored Reception & Posters**

**Day 2: 4 November 2010****Theme: Geoscience Research and Development**

**09.00 – 09.05** Opening Address: Dr. Pat O'Connor, Assistant Director GSI

**09.00 – 09.30** **Keynote Talk: The National Centre for Geocomputation (NCG) & the Strategic Research Cluster in Advanced Geotechnologies (StratAG): Role Models for GeoScience Research?** Prof. Stewart Fotheringham, NUI Maynooth

**Session 1 Groundwater Protection**

*Chair: Ms. Monica Lee, GSI*

**09.30 – 09.50** Ireland's National Groundwater Vulnerability Mapping Programme  
Ms. Orla Murphy, Tobin Consulting Engineers

**09.50 – 10.10** A Multidisciplinary Approach to Characterising Irish Poorly Productive Aquifers. Dr. Rachel Cassidy, QUB

**10.10 - 10.30** Griffith Geoscience Coastal Aquifer Project – overview of progress to Date. Dr. Liam Morrison NUI Galway

**10.30 - 11.00** *Coffee Break & Posters*

**Session 2 Basin Studies**

*Chair: Mr. Koen Verbruggen, GSI*

**11.00 – 11.05** Marine Processes and Basin Development: overview of research Programme. Prof. Pat Shannon, UCD

**11.05 – 11.25** Clare drilling and Training initiative. Dr. Peter Haughton

**11.25 – 11.45** Deep-water Sedimentary Processes and Deposits. Dr. Aggie Georgiopoulou, UCD)

**11.45 – 12.05** Tracking Sediment from Source to Sink: ongoing research at the UCD Sand Provenance Centre. Dr. Shane Tyrrell, UCD

**Session 3 Carbon Capture & Storage**

*Chair : Dr. Brian McConnell, GSI*

**12.05 – 12.25** CCS Initiatives at GSI. Dr. John Morris, GSI

**12.25 – 12.45** Dynamic and Static Response to CO<sub>2</sub> Injection into Synthetic Reservoirs. Dr. Garth O'Brien UCD

**12.45 – 13.05** Scenarios for Seismicity induced by the Geological Sequestration of CO<sub>2</sub>. Mr. Shane Murphy et al., University of Ulster

**13.05 - 14.00** **LUNCH & POSTERS**

**Session 4                      Geohazards**

*Chair: Dr. Ronnie Creighton, GSI*

**14.00 – 14.20** GSI Landslide Susceptibility Mapping Project. Robert Bone, Mouchel

**14.20 – 14.40** Urban Geochemistry of Dublin (the Surge Project): Soil Quality and Public Health. Dr. Pat O'Connor, GSI

**14.40 - 15.10** *Coffee Break & Posters*

**Session 5      Resources, Infrastructure & Planning**

*Chair: Mr. Gerry Stanley*

**15.10 - 15.30** Dublin GeoUrban Project. Mr. Ray Scanlon, GSI

**15.30– 15.50** Ireland's Aggregate Potential – an interim status report. Mr. Phelim Lally, Consultant

**15.50 - 16.10** Tellus in the North of Ireland – recent advances and new Opportunities. Mr. Mike Young, GSNI

**Session 6                      GeoEducation & Communication**

*Chair: Dr. Sarah Gatley, GSI*

**16.10 – 16.30** Griffith Geomatics for Geosciences: The benefits of good data management practices. Mr. Declan Dunne, Coastal Marine Research Centre, UCC.

**16.30 – 16.50** The Geoschol Initiative: Fostering Awareness of Ireland's Geological History in Schools. Dr. Patrick Wyse Jackson, TCD

**16.50 – 17.10** The Irish Geoscience Graduate Programme: progress and obstacles  
Prof. Ben Kennedy

**17.10 - 17.30** Conclusions - Way forward. Dr. Pat O'Connor, GSI