

INFOMAR Seminar 2016

A Phase Change

*Integrated Mapping for the Sustainable
Development of Ireland's Marine Resource*

Marine Institute
Rinville, Oranmore, Co. Galway

Wednesday 19th October 2016

Seminar Focus: *Collectively Creating an INFOMAR Legacy*

Objective: *To assess the programme activity, and investigate the associated research and technology landscape*

Sessions:

- *The INFOMAR Birds Eye View*
- *Mapping Technology for Coastal Development & Management*



Geological Survey of Ireland



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Wednesday 19th October

Session 1: The INFOMAR Birds Eye View

09:30 The global seabed mapping landscape – Ireland’s focus, future, & vision
Koen Verbruggen & Peter Heffernan (GSI)

10:00 Reflections on mapping Ireland’s EEZ – Wisdom or Folly
Archie Donovan (GSI)

10:15 A phase change in Irish seabed mapping
Tommy Furey (MI)

10:30 *Building on EU & International project collaboration for Irish industry, government & research*
Janine Guinan (GSI) & Fergal McGraths (MI)

10:45 Recent inshore and shelf mapping activities and challenges
Sean Cullen (GSI) & Fabio Sacchetti (MI)

11:00-11:30 Discussion / Questions Session

Coffee Break & Poster

Session 2: Mapping Technology for Coastal Development & Management

11:30 Development of a coastal infrastructure web GIS with remote sensing focus
Gearoid O’Riain (Compass Informatics)

11:45 Quantifying coastal evolution along Donegal bay system using remote sensing approaches
Colman Gallagher (UCD)

12:00 Developments in autonomous vehicles for mapping challenging coastal areas
Dan Toal (UL)

12:15 UAV for intertidal and coastal zone mapping
Ronan O’Toole (Greenlight Surveys)

12:30 Coastal modelling through low cost video based photogrammetry
Debra Laefer (UCD)

12:45 3D simulation of Ireland’s “Ancient East” marine environment
Gavin Duffy (RealSim)

12:30 Discussion / Questions Session

Lunch & Poster

Session 3: Mapping Technology for Coastal Development & Management

14:00 Mapping the spatial and temporal variations of water quality in Dublin Bay
Dermot Diamond (DCU)

14:15 Innovative investigations into coastal platforms and landslides
Mary Bourke (NUIG)

14:30 GIS & coastal geology and landscapes of the Wild Atlantic Way
Max Kozachenko (GeoCoast)

14:45 Developing a rapid, low-cost bathymetric survey methodology using multi-resolution imagery
Conor Cahalane (NUIM)

15:00 **Developing an Integrated approach to seaweed resource assessment**
Tom Rossiter (NUIG)

15:15 – Discussion / Questions
15:45 Session

Coffee Break & Poster

Session 4: INFOMAR in Energy, Infrastructure, Environment, & Education

15:45 Irish sea suitability mapping for novel offshore foundations (ISSMaNOF)
Mark Coughlan (Gaelectric)

16:00 Feasibility of offshore energy converters in Irish Sea (FORCE)
Luke Prendergast (UCD)

16:15 Pollutants in marine sediments from the Irish continental shelf
Audrey Morley (NUIG)

16:30 Frequency of slope collapses on Rockall Bank and mechanical characterisation of the sediments
Aggeliki Georgiopoulou (UCD)

16:45 Linking sedimentary architecture and sediment sources in the NW Carboniferous Basin
Shane Tyrrell (NUIG)

17:00 A hydrography training programme demonstrator
James Riordan (SonarSim)

17:15 Environmental mapping of the Irish Deepwater EEZ
Ben Thébaudeau / Michal Szpak (GSI/IRC)

17:15- Questions & Wrap-up
17:30