

# INFOMAR Seminar 2016

## A Phase Change

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

**Marine Institute**  
Rinville, Oranmore, Co. Galway

**Wednesday 19<sup>th</sup> 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*



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ar son na hAeráide & Comhshaoil**  
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Climate Action & Environment

# Wednesday 19<sup>th</sup> October, 2016 INFOMAR Seminar

Session 1: The INFOMAR Birds Eye View		
09:30	<b>Welcome &amp; Opening</b> - <i>Koen Verbruggen (GSI) &amp; Peter Heffernan (MI)</i>	
10:00	Reflections on mapping Ireland's EEZ – Wisdom or Folly <i>Archie Donovan (GSI)</i>	
10:15	A phase change in Irish seabed mapping <i>Tommy Furey (MI)</i>	
10:30	<i>Building on EU &amp; International project collaboration for Irish industry, government &amp; research</i> <i>Janine Guinan (GSI) &amp; Fergal McGrath (MI)</i>	
10:45	Recent inshore and shelf mapping activities and challenges <i>Sean Cullen (GSI) &amp; Kevin Sheehan (MI)</i>	
11:00-11:30	<b>Discussion / Questions</b>	<b>Coffee Break &amp; Poster Session</b>
Session 2: Mapping Technology for Coastal Development & Management		
11:30	Tapping into INFOMAR data & products <i>David O'Sullivan &amp; Deirdre O'Driscoll (MI)</i>	
11:45	Development of a coastal infrastructure web GIS with remote sensing focus <i>Gearoid O'Riain (Compass Informatics)</i>	
12:00	Quantifying coastal evolution along Donegal bay system using remote sensing approaches <i>Colman Gallagher (UCD)</i>	
12:15	Developments in autonomous vehicles for mapping challenging coastal areas <i>Dan Toal (UL)</i>	
12:30	Coastal modelling through low cost video based photogrammetry <i>Debra Laefer (UCD)</i>	
12:45	3D simulation of Ireland's "Ancient East" marine environment <i>Gavin Duffy (RealSim)</i>	
13:00 – 14:00	<b>Discussion / Questions</b>	<b>Lunch &amp; Poster Session</b>

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## 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 UAV for intertidal and coastal zone mapping  
*Ronan O'Toole (Greenlight Surveys)*

14:30 Development of a coastal infrastructure webGIS for Ireland using open source technology  
*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 / NUIM)*

15:15 – Discussion / Questions

Coffee Break & Poster Session

15:45

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

15:45 Irish sea suitability mapping for novel offshore foundations (ISSMaNOF)  
*Paul Murphy (Gaelectric/UCC)*

16:00 Pollutants in marine sediments from the Irish continental shelf  
*Audrey Morley (NUIG)*

16:15 Frequency of slope collapses on Rockall Bank and mechanical characterisation of the sediments  
*Aggeliki Georgiopoulou (UCD)*

16:30 Linking sedimentary architecture and sediment sources in the NW Carboniferous Basin  
*Shane Tyrrell (NUIG)*

16:45 A hydrography training programme demonstrator  
*James Riordan (SonarSim)*

17:00 Environmental mapping of the Irish Deepwater EEZ  
*Xavier Monteys (GSI/IRC)*

17:15 Questions & Wrap-up

