



# EIMR INTERNATIONAL CONFERENCE 2022

Environmental Interactions of Marine Renewables

## EIMR 2022; Programme Day 3 - Thursday 6th October

**10.45am** Conference Day welcome; Chair of the EIMR2022 Scientific Advisory Committee - Prof. Ben Wilson (SAMS UHI)

**11.00am to 11.50 noon – Theme Session “Scaling up from single devices to potential future seas 2”**

Chair; David Woolf (Heriot Watt University)

Live summary of pre-recorded oral presentations for this theme session discussion (2 minutes x 1 slide by each presenter)

| <i>Pre-recorded oral presentations for theme session discussion</i>   | <i>Presenter</i>                               |
|---|--|
| <i>Assessing Connectivity of Epibenthic Communities provided by Offshore Energy Infrastructure in the North Sea</i>           | <b>Andrew Want</b><br>Heriot Watt University   |
| <i>Indicators for whole ecosystem responses to understand climate and anthropogenic change in coastal seas</i>                | <b>Neda Trifonova</b><br>Aberdeen University   |
| <i>A plausible layout for North Sea offshore wind in 2050</i>   | <b>Simon Waldman</b><br>Hull University        |
| <i>Cumulative Effects of Offshore Renewables: from pragmatic policies to holistic marine spatial planning strategic tools</i> | <b>Morgane Declerck</b><br>Aberdeen University |

**12.00 noon to 12.50pm – Keynote for the day**

Chair; Joe Onoufriou (Marine Scotland Science)

Early Career Researchers in renewables; The journey through research, current work and future opportunities in the industry out to 2050 – Katherine Whyte (BIOSS) and Paul Kerr (Edinburgh University)

**1.00pm to 2.00pm; Conference break (live e-Posters session - 1.15pm to 1.45pm)**

| <i>Live e-posters to view</i>   | <i>Presenter</i>                          |
|---|---|
| <i>Potential environmental effects of widespread future deployment of floating ORE structures</i>   | <b>Caitlin Harris</b><br>UHI              |
| <i>Changes in the distribution and abundance of marine top-predators in the North Sea associated with present and future wind farm developments</i> | <b>Sophie Crouch</b><br>Bangor University |
| <i>The applicability of unmanned aerial vehicles as a survey tool within tidal stream environments</i>  | <b>James Slingsby</b><br>ERI UHI          |
| <i>IMARDIS Cyberinfrastructure – a cloud-based data management system for environmental impact assessments of tidal turbines</i>                    | <b>Noel Bristow</b><br>Bangor University  |



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## 2.00pm to 2.50 pm – Theme Session “Considering other stakeholders”

Chair; Raeanne Miller (Aquaterra)

Live summary of pre-recorded oral presentations for this theme session discussion (2 minutes x 1 slide by each presenter)

| <i>Pre-recorded oral presentations for theme session discussion</i>   | <i>Presenter</i>                                     |
|---|--|
| <i>Unlocking blue growth: Coastal managers role in balancing dialectic tensions of environmental protection and economic development</i>            | <b>Jessica Giannoumis</b><br>University College Cork |
| <i>Understanding coastal community attitudes towards the provision of offshore wind energy community benefit funds: An Irish Case Study</i>         | <b>Nuala Carr</b><br>Queens University               |
| <i>Just energy transition? How current practice is considering fisheries during the emergence of renewable energy production in Scottish waters</i> | <b>Inne Withouck</b><br>Flanders Marine Institute    |

## 3.00pm to 3.50 pm – Theme Session “Evaluating impacts for consenting”

Chair; Ceri Seaton (Natural Resources Wales)

Live summary of pre-recorded oral presentations for this theme session discussion (2 minutes x 1 slide by each presenter)

| <i>Pre-recorded oral presentations for theme session discussion</i>  | <i>Presenter</i>                     |
|--|--------------------------------------|
| <i>Evaluating impacts of offshore wind farm construction on harbour porpoises (Phocoena Phocoena) in the North Sea: a model-based approach</i> | <b>Steven Benjamins</b><br>SAMS UHI  |
| <i>Three key lessons from post-consent monitoring of tidal stream developments</i>   | <b>Kate Smith</b><br>Nova Innovation |
| <i>From Science to Consenting: Tools and Guidance to Support Regulatory Decision-Making for Marine Renewable Energy</i>                        | <b>Deborah Rose</b><br>PNNL          |
| <i>Critical evidence gaps for tidal lagoon developments in 2022</i>  | <b>Raeanne Miller</b><br>Aquaterra   |

## 4.00pm to 4.30pm - live e-Posters session

| <i>Live e-posters to view</i>   | <i>Presenter</i>                                  |
|---|---|
| <i>Efficiency of environmental DNA compared to conventional methods for biodiversity monitoring purposes at offshore energy sites</i> | <b>Lenaig Hemery</b><br>PNNL                      |
| <i>Evaluating the performance of multibeam echosounders with standardised targets</i>   | <b>Nicholas Petzinna</b><br>UHI                   |
| <i>Deep recurrent neural networks to classify marine mammals around tidal turbines using passive acoustic monitoring</i>              | <b>Vahid Seydi</b><br>Bangor University           |
| <i>Tethys: Facilitating Knowledge Sharing on Environmental Effects of Marine Renewable Energy Around the World</i>                    | <b>Hayley Farr</b><br>PNNL                        |
| <i>A local approach to the standardisation of socio-economic values for suitability mapping</i>                                       | <b>Inne Withouck</b><br>Flanders Marine Institute |



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## **4.30pm to 4.45pm – Conference Close Out**

Prof Ben Wilson: *Chair of the EIMR2022 Scientific Advisory Committee*

- *Conference Summary*
- *Prizes*
  - *Best student e-poster*
  - *Best recorded talk*
- *EIMR Future plans*

## **Finish Day Three**