

## Structures in the Marine Environment 2019

**Friday 17th May 2019, 9.00am-4.00pm at the Technology and Innovation Centre, University of Strathclyde**

A robust evidence base is needed to support environmental management and policy/regulatory decision-making. The “Structures in the Marine Environment” (SIME2019) conference will focus on the impact their presence or removal may have on marine ecosystems. Academics, stakeholders, industry and government reps, stakeholders and interested parties are invited to come together for a day of talks and discussion about man-made structures already within the marine ecosystem (such as O&G platforms and pipelines), and any new infrastructures that may be put in place over the coming decades (e.g. renewable energy structures).

A future funding call is to be detailed at this conference.

### Programme

0900-0930 Registration with tea/coffee

0930-0940 Conference opening by Prof David Paterson

0940-1000 Plenary - NERC Phase II call and Insite II ambitions

#### **1000-1100 Talk session 1**

- Lea-Anne Henry (Edinburgh University) - Will man-made structures in shallow marine environments become oases for deep-sea life?
- Anthony W J Bicknell (Exeter University) - Assessing the impact of introduced infrastructure at sea with cameras: a case study for spatial scale, time and statistical power
- Joop W P Coolen (Wageningen Marine Research) - Modelling marine growth biomass on North Sea offshore structures
- Lilian Lieber (QUB) - Localised anthropogenic wake generates a predictable foraging hotspot for top predators

1100-1130 Networking with tea/coffee

#### **1130-1300 Talk session 2**

- Anton Edwards (UHI) - Optimal Structural Design in Relation to Extreme Currents
- Lucie Guignier (Ideol Offshore) - Floating electrical substation modelling in extreme wave environment
- Tom Wilding (SAMS) - From bacteria to whales – using environmental metabarcoding to assess change associated with marine structures



## STRUCTURES IN THE MARINE ENVIRONMENT 2019

- Debbie Russell (St Andrews) - Structures and marine top predators: overlap and interactions
- Marion Harrald (Marine Scotland Science) - Impact of Trawling on the Benthos Around Oil and Gas Pipelines
- Silvana Birchenough (CEFAS) - Evaluating the effects of man-made structures on the functioning of the benthic system in the North Sea

1300-1400 Lunch, networking and posters

1400-1425 Afternoon plenary (Prof Ian Boyd) "Some insights from inside government."

### 1425-1555 **Talk session 3**

- Emma Sheehan (Plymouth University) - Ecological interactions with offshore installations – the potential benefits of ambitious management for temperate ecosystems
- Sally Rouse (SAMS) – 3D imaging of marine epifauna: towards an ecosystem understanding of artificial reefs
- Arianna Zampollo (Aberdeen University) - Modelling primary production in response to deeper wind farms
- Hugo Winter (EDF Energy) - Marine biofouling in an industry context and the impacts of climate change
- Benjamin Williamson (UHI) - Multi-platform studies of the environmental effects of structures in the marine environment
- Jennifer Fox (Aquaterra) - SEA Wave: Addressing the long-term environmental concerns associated with the development of wave energy technology

1555-1600 Wrap up and conference closing

### Posters:

- Luke Holmes (Plymouth University) - Development of epibenthic assemblages on artificial habitat associated with marine renewable infrastructure
- Michael Redford (SAMS) - Artificial reef creation using decommissioned pipeline protections – environmental performance and fisheries enhancement potential in the North Sea
- Elise Depauw (SAMS) - Optimising the decommissioning of concrete mattresses and pipeline protection structures in the North Sea
- Sally Rouse (SAMS) - Interactions between subsea pipelines and the marine ecosystem
- Phil Hart (Cranfield University) - Desert deployed wind farms; practical or not?



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- Raeanne G Miller (UHI) - Is structural noise important for development of biological communities on man-made structures?
- Jed Nicholson (JNCC) - Marine Ecosystem Service Optimisation (MESO) model of the impact of human activities on eco-systems and their services
- Andrew Want (Heriot Watt) - Colonisation Studies of Offshore Renewable Energy Infrastructure
- Stuart Moir (EIP) - Ambient Lifter – An Innovative Subsea Lifting Solution

Still space for more posters, so please contact [masts@st-andrews.ac.uk](mailto:masts@st-andrews.ac.uk) if you would like to bring a poster.

Conference registration is open at <https://www.eventsforce.net/standrews/80/home>