

## **PRIMaRE Workshop: Paving the way to scale up MRE devices towards commercialisation**

*Bill Brown Suite, Queen's Building, New Wing, Woodland Road, Bristol University, Bristol*

The Key Challenge Workshops are aimed to be an industry oriented dynamic and proactive forum to ensure alignment of PRIMaRE research priorities, and to focus on key emerging challenges requiring special attention. Workshops will be UK focussed events structured around relevant topics for the development of the MRE sector.

The workshop will be structured to identify research priority areas across environmental/consenting and technical aspects of marine renewable energy.

The workshop will take place ahead of the 5th PRIMaRE conference at the University of Bristol on **Wednesday 4 July 2018**.

The workshop is supported by The Royal Society via a Royal Society – CNR International Fellowship at Loughborough University and by PRIMaRE.

The workshop is free to attend but participants must **register** here (<https://www.surveymonkey.co.uk/r/DLNCV8C>) no later than Friday 29th June.

Please email [carlos.perezcollazo@plymouth.ac.uk](mailto:carlos.perezcollazo@plymouth.ac.uk) or [E.Renzi@lboro.ac.uk](mailto:E.Renzi@lboro.ac.uk) if you have any queries.

### **Topics of the workshop**

- Socio-Environmental & Policy Challenges of Array Deployment:
  - Supply Chain Needs
  - Environmental Issues & Monitoring Needs
  - Moving from Technology Readiness Level to Commercial Readiness Index
- Hydrodynamic & Experimental Modelling Challenges for Full-Scale Devices:
  - Energy Extraction/Production
  - Extreme Loads & Survivability
  - Understanding Scaling Effects
  - Hybrid Devices

### **Aims of the workshop**

- To explore new research arenas, identifying and coordinating the research priorities for the PRIMaRE partners;
- To expand the relationship between PRIMaRE and industry, utilising their feedback to identify research priorities and opportunities for future collaborations;
- To disseminate the expertise and knowledge gained among the PRIMaRE members to the industry and the wider MRE community; and
- to be the base for a coordinated response from PRIMaRE to the wider sector and stakeholders to help set the agenda and respond to the research and development needs

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**Bristol, 4 July 2018**

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### **Agenda**

<b>9:00</b>	<b>Arrival and Coffee</b>	
<b>9:30 – 9:40</b>	<b>Welcome and introduction to workshop</b>	<b>Carlos Perez Collazo /Emiliano Renzi</b>
<b>Session 1</b>		
How can industry and academia address the supply chain, policy and environmental challenges for deploying full-scale arrays?		
9:40 – 10:00	Challenges for MRE to become commercial	Stuart Bradley (ES Catapult)
10:00 – 10:20	Moving from single unit to array	Robert Bray (MeyGen)
10:20 – 10:40	Ecologically Sustainable Solutions for an Engineered Future	Beth Scott (University of Aberdeen)
<b>10:40 – 11:10</b>	<b>Panel discussion</b>	
<b>11:10 – 11:30</b>	<b>Coffee &amp; tea</b>	
<b>11:30 – 12:10</b>	<b>Break out session 1: separate groups to discuss</b>	
<b>12:10 – 12:40</b>	<b>Re-group and Feedback and discussion</b>	
<b>12:40 – 13:10</b>	<b>Lunch (sandwiches and drinks provided)</b>	
<b>Session 2</b>		
How can industry and academia develop improved numerical and experimental modelling methods for full-scale devices and arrays?		
13:10 – 13:30	Numerical and experimental methods for full-scale devices and arrays	Vincenzo Nava (Tecnalia)
13:30 – 13:50	Scaling experimental results - an issue for MRE development?	Pal Schmitt (Queen's University Belfast)
13:50 – 14:10	Hydrodynamics of extreme loading conditions	Jun Zang (University of Bath)
<b>14:10 – 14:40</b>	<b>Panel discussion</b>	
<b>14:40 – 14:50</b>	<b>Coffee &amp; tea</b>	
<b>14:50 – 15:30</b>	<b>Break out session 2: separate groups to discuss</b>	
<b>15:30 – 16:00</b>	<b>Re-group and Feedback &amp; Discussion</b>	
<b>16:00</b>	<b>Close</b>	