



**FRANCE  
ENERGIES  
MARINES**

# **Offshore Renewable Energies**

## **3<sup>rd</sup> Science & Technology Tribune**

### **Array integration and optimisation**

**17 DECEMBER 2019**



École des Ponts  
ParisTech

École des Ponts ParisTech  
Champs-sur-Marne  
France

# About France Energies Marines annual Tribune

To define, set-up and apply the scientific and technical environment required to overcome the obstacles related to the development of Offshore Renewable Energies (ORE) technologies while optimising their integration in the environment: this is the purpose of France Energies Marines. Its annual Tribune aims to discuss the R&D issues and the results of collaborative projects conducted by France Energies Marines, its members and partners.

In a context of the construction of the first commercial farm and the launch of the public debates for future farms in France, the 3rd edition of the Tribune will focus on the integration of arrays in their environment and present challenges and results through interactive discussions with the audience.

## About the keynote speaker



Dr. Andrea Copping is the research lead for marine and offshore wind energies development at Pacific Northwest National Laboratory (USA). Her activities focus on environmental impacts of ORE and the role that these effects could play in technology development and project initiation. Using risk-based approaches, the team lead

by Dr. Andrea Copping integrates laboratory, field and modeling measurements into a coherent body of evidence to support siting and permitting decisions. Dr. Andrea Copping works with various stakeholder of the sector to ensure that the available scientific information is accessible and available.

# Programme

10:30-10:55

## Registration

10:55-11:00

## Opening of the day

**Françoise Preteux**, Director of Research at ENPC

11:00-11:15

## Introduction

**Laurent Michel**, Executive Director for Climate and Energy - French Ministry for the Ecological and Inclusive Transition

**Karine Vernier**, Director of the Energy and Circular Economy programme - French Secretary General for Investment

11:15-11:45

**Keynote by Dr. Andrea Copping**, Pacific Northwest National Laboratory

11:45-12:00

## France Energies Marines

The Institute for Energy Transition dedicated to ORE sector

**Yann-Hervé De Roeck**, Executive Director & **Julien Marchal**, President

12:15-13:15

## Lunch

13:30-15:10

### *Room N° 1*

#### **Seabed dynamics**

How to reduce costs related to seabed characterisations and adapt structures to this specific environment?

Chairman:

**Jean-François Filipot**, FEM

Speakers:

**Rocio Isorna**, FEM

**Maëlle Nexer**, FEM

**Elisabeth Palix**, EDF Renewables

### *Room N° 2*

#### **Influence of biofouling**

How to derisk projects and improve maintenance?

Chairwoman:

**Catherine Dreanno**, Ifremer

Speakers:

**Guillaume Damblans**, FEM

**Fabien Khouri**, Bureau Veritas

**Nolwenn Quillien**, FEM

15:10-15:40

## Coffee break



# Programme

15:40-17:20

*Room N°1*

## **Environmental recommendations**

How can we better take into account questions from the public?

Chairman:

*Jean-Philippe Pagot*,  
EDF Renewables

Speakers:

*Rhoda Fofack-Garcia*, FEM  
*Morgane Lejart*, FEM  
*Nathalie Niquil*, CNRS/Université de  
Caen Normandie

*Room N°2*

## **Array optimisation**

Which methods and tools should be chosen to achieve the optimum cost/production?

Chairman:

*Nicolas Germain*, FEM

Speakers:

*Salvy Bourguet*, Université de Nantes  
*Jérémy De Barbarin*, EDP Renewables  
*Katherine Dykes*, DTU Wind Energy  
*Georges Safi*, FEM

17:20-17:30

## **Closing remarks**

*Yann-Hervé & Jean-François Filipot*, FEM



REGISTERING ON LINE AT:  
[france-energies-marines.org](http://france-energies-marines.org)