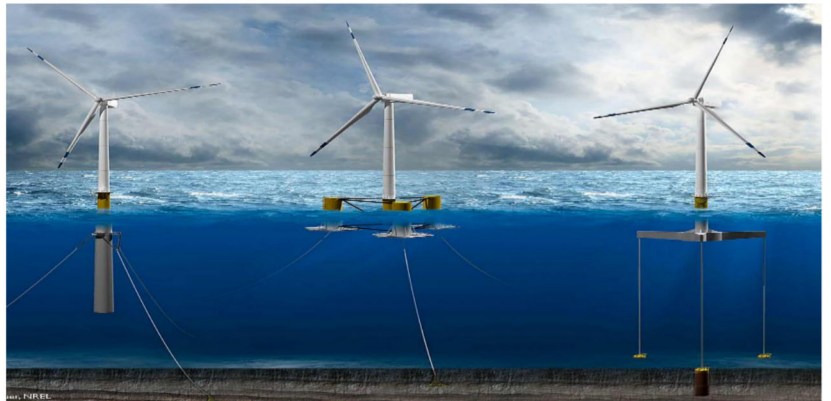


2022 | FRENCH  
AMERICAN  
INNOVATION  
DAY  
NANTES



**The French-American Innovation Day 2022**

***The second International Workshop on  
Floating Offshore Wind Energy Technology:***

***Innovation to Commercialization  
Engineering, Policy, and Development***

**June 15, 2022**

**Call for Abstracts – Deadline April 29 2022**

**Nantes, France**

**UFR Sciences et Techniques, Nantes Universités *and on-line***

The increasing worldwide demand for energy generated from renewable resources is an opportunity for France and the U.S. to advance offshore wind energy technology to harvest the rich offshore wind resources from their extensive coastlines. Among existing technologies, innovations in floating wind technology are especially promising because of their high power capacities, extensive harvesting potential in a large range of water depths, and low disruption to other offshore activities.

French-American Innovation Day (FAID) is an annual event organized by the Office for Science and Technology of the Embassy of France in the U.S. The FAID is designed for researchers and companies to exchange views on a specific technological issue, start cooperative activities, and develop partnerships with a transatlantic perspective. The goal of FAID is to facilitate the development of innovations between France and the U.S. by bringing together scientists, practitioners, and other interested stakeholders from both countries and preparing for the next generation of collaborative research projects.

The first French-American Innovation Day (FAID), organized by the Office for Science & Technology of the Embassy of France in the U.S, the Northeastern University and the University of Nantes took place in Boston on march 2019 with the aim to be the first of a series of [international workshop on floating offshore wind energy technology \(I-FOWT\)](#). It was designed to share information on the innovation potential of floating technology and to discuss and identify the key issues that can lead to lower costs of energy and increased public acceptance. A public report of the breakout sessions is available: [Report-FAID2019](#).

This second Workshop is organized with the same philosophy with the objective to reinforce the collaborations between region Pays de la Loire and East Coast of USA. Format will be thematic session comprising of in-person or online presentations (15 min + 5 min Q/A). A public report will be made available after conclusion of the workshop.

### **This year workshop is organized around five main themes:**

- Perception of offshore wind by citizens and other users of the sea
- Socio-economical impact of wind energy: particular/common benefits
- Environmental impact of wind energy: from protocols to assessment
- Modelling interaction between environment and a technological system, with a special attention on biofouling
- Numerical twinS: How? for which goal?

### **Program (2 pm-6 pm CEST)**

2 pm - 2:15 pm – welcome and introduction – F. Schoefs (Nantes Université)

#### **Session 1- Challenges for accounting for environmental effect on FOWT engineering**

Chair: K. Sharman (University of Massachusetts, Amherst), co-chair: V. Rey (Nantes Université)

- 2:15 - 2:20 Integrated ground modelling for floating wind projects, R. T. Klinkvort et al. (Norwegian Geotechnical Institute)
- 2:20 - 2:40 Multiline anchor force dynamics in floating offshore wind turbines, S. Arwade (University of Massachusetts, Amherst)
- 2:40 - 3:00 Design of innovative mooring systems with the use of FOWT integrated numerical models, V. Arramounet et al. (INNOSEA)
- 3:00 - 3:20 Concept of Qualifying Sea-States for digital twins development, F.Schoefs et al. (Nantes Université).
- 3:20 - 3:40 A Review of Influence of Marine Growth Dynamics on Offshore Structures, M. Maduka et al. (Nantes Université/ University of Massachusetts, Amherst)
- 3:40 - 4:00 Thermal characterization and thermal assessment of biofouling around a dynamic submarine cable of floating offshore wind turbine, Z. Maksassi et al. (Nantes Univ).

Break 15 mn

#### **Session 2- Challenges for integrating FOWT farms in a socio-economic environment**

Chair: A. Bates (Colby College, USA), co-chair: P.A. Mahieu (Nantes Université)

- 4:15 - 4:35 How stakeholders amplify and attenuate risks and benefits of offshore wind, B. Ram et al. (Ram Power LLC, USA)
- 4:35 - 4:55 Social Acceptance of Offshore Wind Energy: Lessons Learned and Implications for Future Research, A. Bates (Colby College, USA)
- 4:55 - 5:15 Developing large-scale offshore wind power programs: a choice experiment analysis in France, P.A. Mahieu et al. (Nantes Université)
- 5:15 - 5:35 Ocean multi-use in the French and the US offshore wind farms, J. Guyot-Téphany et al. (Nantes Université)
- 5:35 – 5:55 Integration and assessment of artificial reefs in US and France offshore floating wind farms, A. Dubois et al. (Nantes Université)

5.55 pm - 6:25 pm Pannel

## Registration

Registration is free but mandatory before June 10 th:

<https://questionnaires.univ-nantes.fr/index.php/985826?lang=fr>

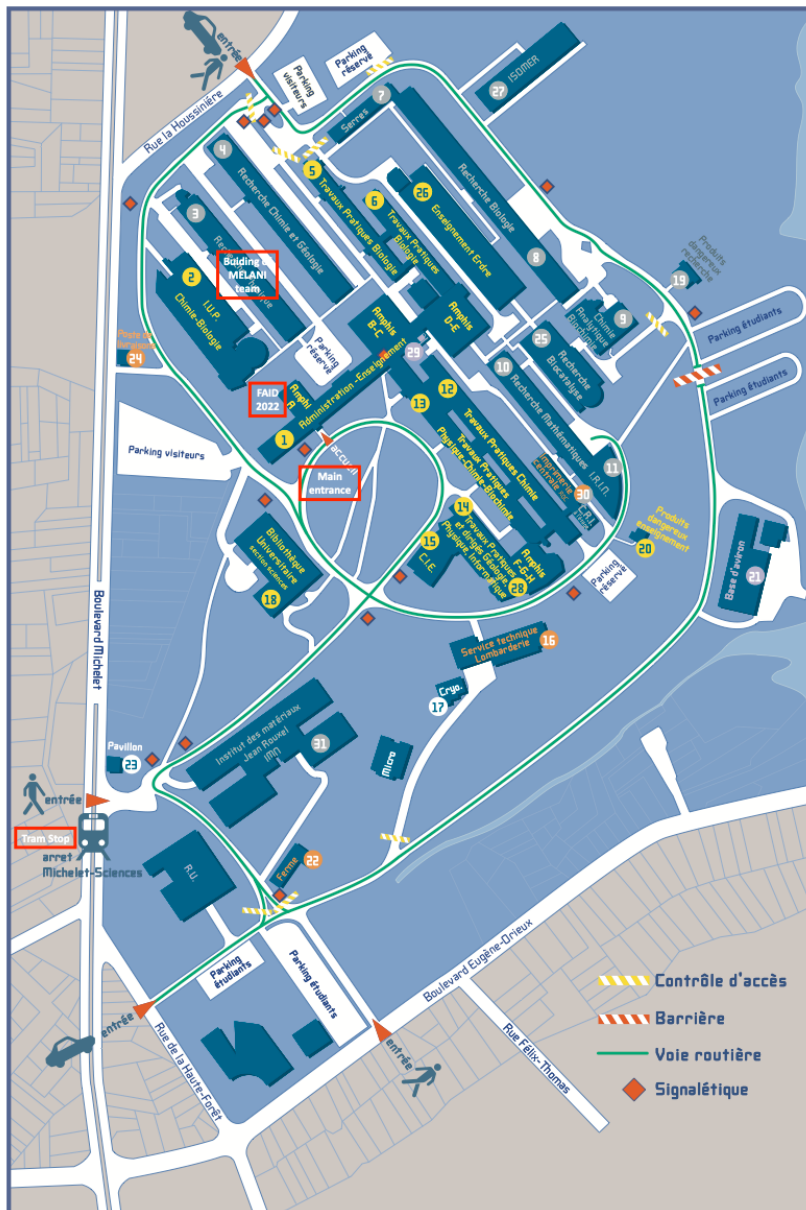
(please give: Name, First name, Affiliation, e-mail, on-line, in person)

For attendees in the United States, a zoom link will be sent once registered.

Lunch is offered by IUML.

## Venue

Nantes Université, Campus "UFR Sciences et Techniques », 2 rue de la Houssinière, 44322 Nantes,  
Tram Stop « Michelet, fac des sciences », Building A, Amphitheater A (follow the signs):



## Scientific Committee

Sanjay Arwade (University of Massachusetts, Amherst), Alison Bates (Colby College), Bruno Cognié (Nantes Université), Justine Dumay (Nantes Université), Ahmed Gueled (Nantes Université), Rodica Loisel (Nantes Université), Pierre-Alexandre Mahieu (Nantes Université), Valentine Rey (Nantes Université), Krish Sharman (University of Massachusetts, Amherst), Franck Schoefs (Nantes Université), Brice Trouillet (Nantes Université)

## Organizing Committee

Katherine Coughlan (University of Massachusetts, Antoine Dubois (Nantes Université/ Colby College), Amherst/Nantes Université), Maduka Maduka (Nantes Université/ University of Massachusetts), Josephine Labat (Nantes Université), Ziad Maksassi (Nantes Université), Franck Schoefs (Nantes Université), Boris Teillant (Atlantpole, Pôle Mer Bretagne Atlantique), Florent Vince (WEAMEC)

*If you have any questions, please contact [dir-iuml@univ-nantes.fr](mailto:dir-iuml@univ-nantes.fr)*

**Abstract:** ½ page to be sent to [dir-iuml@univ-nantes.fr](mailto:dir-iuml@univ-nantes.fr) ; **Subject:** FAID 2022 by April 29<sup>th</sup> 2022

*Use the template of the workshop*

## An initiative of:



## With the support of:

