French Corner

January, Thursday 18th

16:45-18:45

16:45 - Welcome speech, **French Embassy in Norway** : Tools for French-Norwegian Cooperation

16:50 - **WEAMEC** (West Atlantic Marine Energy Center)

17:00 - **Ecole Centrale de Nantes**

17:10 – **D-Ice Engineering**

17:20 - **IFPEN** : " IFPEN solutions and research activities "

17:30 - **INNOSEA**

17:40 - **France Energies Marines** : "R&D collaborative projects for MRE and Offshore Wind, the reference national institute: France Énergies Marines "

17:50 - **STX France** : " From Design to Construction of Offshore Wind Projects "

18:00 – Questions and discussion

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WEAMEC

The **WEAMEC** (for West Atlantic Marine Energy Center) federates the dynamic Marine Renewable Energy (MRE) hub of "Pays de la Loire" French Region, in the fields of Research, Innovation & Training.

The WEAMEC brings together around thirty institutions and research laboratories (such as Centrale Nantes, Nantes University, IRT Jules Vernes, CEA Tech, IFSTTAR…) and around sixty companies at a regional level. More than 100 companies at the French and international level collaborate with the academic and industrial stakeholders of WEAMEC.

The skills of these stakeholders, coupled with structuring testing facilities, has led to over 200 projects (regional, national and European) for a portfolio of more than 50 M€ for the regional stakeholders. More than 300 engineers and researchers are involved in research for Marine Energy, amongst the academic partners only, which corresponds to 170 full time equivalent posts.

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Centrale Nantes

Centrale Nantes is an engineering school that deploys academic and applied research of the highest European standards.

With more than 30 years of research and training in the MRE field, European platforms in ocean engineering and several incubated startups, Centrale Nantes has established itself at the forefront of research and innovation in Marine Renewable Energy in Europe.

Its CNRS laboratories, including Research Laboratory in Hydrodynamics, Energetics & Atmospheric Environment (LHEEA), High Performance Computing Institute (ICI), Research Institute in Civil and Mechanical Engineering (GeM) and Laboratory of Digital Sciences of Nantes (LS2N), rely on complementary approaches: from numerical methods (modeling software, massively parallel computation …) to experimentation on models (ocean and atmospheric test facilities) and at full-scale (SEM-REV offshore sea site) on various topics: offshore wind, tidal energy, wave energy, control, smart grids, material durability…

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D-ICE Engineering

D-ICE is an innovative R&D Company and a "digitalizer" of the marine and offshore industry. Specialized in Systems Engineering, Hydrodynamics and Control Theory, the company develops cutting-edge numerical tools for the modeling, simulation and control of complex offshore structures and marine operations. D-ICE offers disruptive products and high-level of expertise for the Marine, Offshore and Renewables industries including Dynamic Positioning, Floating Wind Turbines, Drilling Control or Arctic Engineering.

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Sofien has been graduated from the high School of Engineering of Nantes in France with a specialization on Applied Mathematics and Control Systems. He has started his career by joining Sirehna as marine control engineer where he quickly became the principal *DP* engineer and a world recognized specialist.
He has joined more than 60 sea trials, has written more than 15 papers focused on *DP* and has significantly contributed to research on *DP* in Ice.
He is the founder and the CEO of the company D-ICE Engineering (Design Innovation Control Expertise).

The company is the leader of the research in Dynamic Positioning and advanced control for marine applications in France. Rugbyman and trombonist, Sofien is also reviewer for scientific journals and truly passionate by ambitious and challenging projects.

D - I C E
ENGINEERING

INNOSEA

INNOSEA is Independent multidisciplinary engineering company providing flexible, comprehensive and dedicated engineering services. INNOSEA is a pure-player in Marine Renewable Energies operating internationally based in France (Nantes) and Scotland (Edinburg). Regarding Fixed-bottom and Floating Offshore Wind, INNOSEA offshore wind expertise encompasses :

1. WTG and substation foundation design: structural engineering of both steel and concrete designs and naval architecture. Our expertise is constantly in accordance with the most up-to-date industry standards, through participation in collaborative R&D projects (French projects; UK projects with Carbon Trust Offshore Wind Accelerator; European H2020 projects).
2. Sequential and fully integrated coupled analyses concerning WTG loads assessment. INNOSEA has performed integrated loads iterations for wind farm developers and wind turbine manufacturers.
3. Hydrodynamic expertise : Evaluation of wave & current loads, large hydrodynamic modelling capabilities (Standard method (Morison), Potential flow modelling), Experimental Model tests campaign specification and follow-up.
4. Cable Engineering : Static and Dynamic Cable design, Dynamic global analyses simulations for in-place and installation conditions.
5. Mooring Engineering : Mooring configuration design, Dynamic global analyses simulations for in-place and installation conditions.

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INNOSEA
Marine Energy Engineering