IOWTC 2025
TOULON FRANCE

6TH INTERNATIONAL OFFSHORE WIND TECHNICAL CONFERENCE

October 27-29, 2025

Program

https://event.asme.org/IOWTC

EVOLEN Energies Aujourd'hui & Demain

UNIVERSITÉ DE TOULON

PÔLE MER MÉDITERRANÉE

FRANCE ENERGIES MARINES

ASME SETTING THE STANDARD

Welcome to IOWTC 2025!

Welcome to France and to IOWTC 2025!

Dear participants, authors, partners, sponsors, colleagues, and friends,

It is our great pleasure to welcome you to France and to the 2025 International Offshore Wind Technical Conference (IOWTC), proudly organized by EVOLEN for the American Society of Mechanical Engineers (ASME).

As the offshore wind industry continues to grow at a record pace across the globe, IOWTC has become a cornerstone for bringing together researchers, engineers, and professionals from industry, academia, and government. This year's conference promises to be no exception with more than 100 papers and presentations submitted so far.

IOWTC 2025 will focus on the latest technological advancements in offshore wind turbine deployment, and integration. Key topics include structural and hydrodynamic modelling, floating wind turbine systems, control strategies, grid integration, and new materials and manufacturing methods.

The state of the industry today reflects both incredible momentum and dynamic challenges. Offshore wind is at the forefront of the global clean energy transition, with ambitious deployment targets being set in several countries. Floating offshore wind is moving from pilot projects to commercial-scale implementation, while supply chain development and cost reduction continue to be pressing themes.

We are thrilled to host you in Toulon University, France, a beautiful region located on the Mediterranean coast, known for its beautiful views. France is a country with a growing offshore wind portfolio and a strong commitment to renewable energy innovation, aspiring to achieve target goals of 18 GW of offshore wind capacity by 2035. This year’s conference will not only provide a platform for technical exchange and collaboration, but also offer a taste of the rich culture, and hospitality of our host country. We look forward to the insightful discussions, groundbreaking research, and new partnerships that IOWTC 2025 will inspire.

Bienvenue et à très bientôt !

Sincerely,

Emmanuel Vullierme
Conference Chair

Marc Cahay
Technical Program Chair

Blandine Joncour
Local Organizing Committee Co-Chair

Arthur Serment
Local Organizing Committee Co-Chair

Contents

Welcome to IOWTC 2025! 2
Contents 3
Conference Summary 4
Venue - Conference 5
Venue - Technical Tours 7
Venue - Banquet 9
General Information 10
Important Information 13
General Information 14
Schedule at a Glance 15
Opening Ceremony 17
Keynote Speakers 18
Technical Sessions 21
Author Index 38
Presentations Table 43
Sessions Chair 45
Sponsors 46
Partners 51
Notes 56

Conference Summary

- **IOWTC 2025** will be held at **Toulon University- Faculty of Law.**
- **Monday the 27th of October** : A **Technical Visit** will happen at **IFREMER-La Seyne sur Mer** and **OCEANIDE** (14:00-17:00) followed by a **Welcome Reception** at **Toulon University** (17:00-19:00)**.**
- **Tuesday** the **28th of October** and **Wednesday** the **29th of October** at **Toulon University**:
  - **Welcome to the Conference** will take place from 8:30-9:00
  - An **Opening Ceremony** will be held on the 28th of October from 9:00-9:30. Followed by 3 consecutives **Keynotes** from 9:30-10:30.
  - 3 **Keynotes** will follow the welcome on the 29th of October from 9:00 to 10:00
  - **Coffee/Tea Breaks** will be held from on the
    - 28th of October from 10:30-11:00 and 16:00-16:30
    - 29th of October from 10:00-10:30 and 14:30-15:00
  - **Lunch** will be held on the:
    - 28th of October from 13:00-14:00.
    - 29th of October from 12:00-13:00.
  - **Technical Sessions** will be held on the:
    - 28th of October:
      - TS1: 11:00-13:00
      - TS2: 14:00-15:45
      - TS3: 16:30-18:00
    - 29th of October:
      - TS1: 10:30-12:30
      - TS2: 13:30-15:30
      - TS3: 16:00-18:00
- **Conference Banquet** will be organized on the **28th of October** at **Palais du Commerce et de la Mer: First Floor** from 20:00 to 22:00.
- **Closing Ceremony & Awards** will take place on the **29th of October** at **Toulon University** from 18:00 to 18:15.
- For **directions, parking, and campus information**: https://maps.app.goo.gl/aG8XgqoHCRVghet69

Venue - Conference

Toulon University (Faculty of Law)

Located in the heart of the French Riviera, the University of Toulon (UTLN) has been a cornerstone of academic excellence since its founding in 1968. Offering over 100-degree programs spanning science, technology, arts, humanities, and law, UTLN places strong emphasis on interdisciplinary research and international cooperation. Its three campuses—La Garde, Toulon city center, and Draguignan—provide modern facilities including five libraries, multimedia labs, and vibrant student hubs. UTLN is home to five major research institutes, with notable innovation in marine science, cybersecurity, and entrepreneurship, backed by national and European support. With partnerships across 150+ institutions worldwide, it welcomes students from around the globe and offers multilingual resources, academic exchanges, and summer programs. Dedicated to preparing future leaders and fostering cultural diversity, UTLN is a gateway to global opportunity.

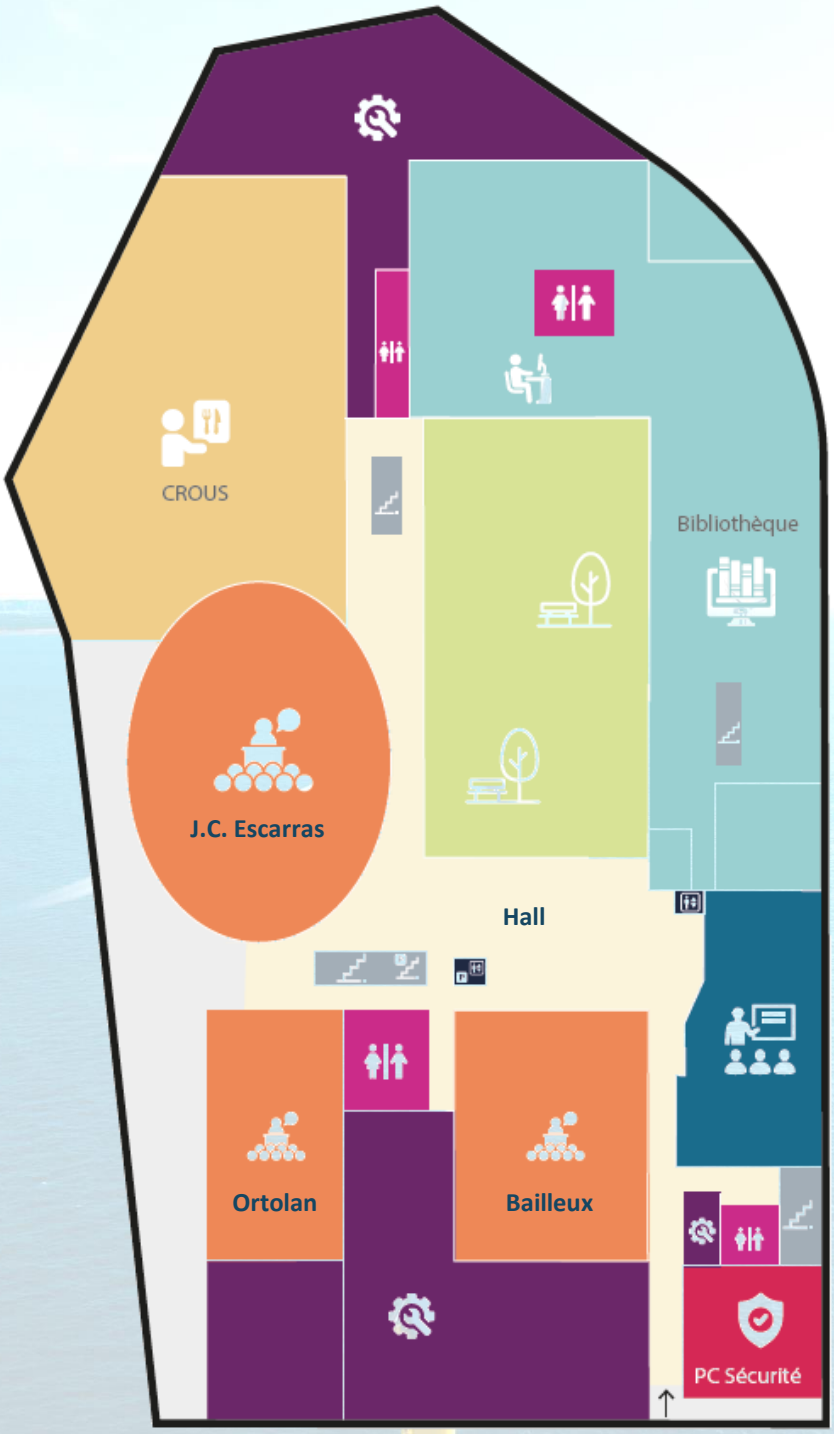
The university also boasts a dynamic cultural scene. Students benefit from a wide range of extracurricular activities, including sports clubs, debate societies, and volunteer programs, fostering a well-rounded educational experience. UTLN's commitment to sustainability is evident through its green campus initiatives, promoting eco-friendly practices and renewable energy projects. With a strong alumni network and career services, graduates are well-equipped to excel in competitive job markets worldwide. Whether pursuing academic excellence or personal growth, UTLN offers an inspiring environment to thrive.

The Conference will be happening at University of Toulon where several events will occur:

- Registration
- Coffee/Tea Breaks
- Lunch
- Keynotes
- Technical Sessions

Address: University of Toulon ,35 Av. Alphonse Daudet, BP 1416,83056 Toulon Cedex, France

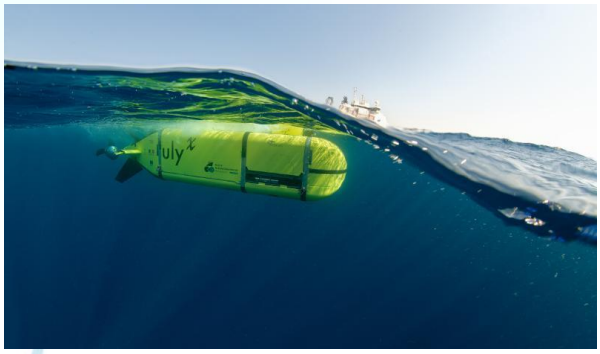
Faculty of Law map with room location:



Venue - Technical Tours

27th October Afternoon

La Seyne sur mer- IFREMER



Located in the bay of Toulon, a strategic position for access to deep waters, the site of La Seyne-sur-Mer is one of Europe's leading scientific ports. With its 400 meters of quay, it can accommodate the vessels of the French Oceanographic Fleet operated by IFREMER and personnel from Genavir, a subsidiary of the Institute responsible for operating them.

It also has test tanks and hyperbaric chambers for testing and implementing underwater equipment and systems.

It also has a virtual reality and augmented reality hall for telescience and digital development activities.

It incorporates the European Centre for Underwater Technologies (CETSM), a leading centre for deep underwater intervention at the international

level.

Development and implementation of underwater technologies:

- Engineering of manned, remotely operated, and autonomous deep-sea vehicles
- Positioning, robotics, acoustics and optics, data processing, artificial intelligence
- On-board computer, electrical and electronic systems
- Intervention engineering

Environmental observation and monitoring:

- Marine biodiversity
- Ecosystem resilience and restoration
- Contaminants, waste and pathogens at sea
- Ecological engineering
- Environmental modelling and scenarios

Address: Zone Portuaire de Brégaillon, 83500 La Seyne-sur-Mer

La Seyne sur mer- OCEANIDE

OCEANIDE is an independent SME based in southern France. For over 25 years, it has operated the South France Ocean Basin, a world-renowned test facility specialized in hydrodynamic model testing.

The facility is particularly suited to:

- Floating and bottom-fixed offshore wind turbines (FOWT, FOSS)
- Complex marine operations
- Research on mooring systems and power cables

Key features:

- Simultaneous emulation of waves, currents, and wind
- Adjustable water depth (up to 5 m)
- Significant dimensions ensuring minimal wall effects and cost-effective testing

Over 45 offshore wind-related campaigns have been conducted, including:

- **Provence Grand Large** (SBM TLP floater – EDF EN / SBM)
- **EolMed** (BW Ideol floater – QAIR / BW IDEOL)
- **Erebus** (PPI semi-sub floater – Blue Gem Wind / PPI)
- **And many innovative concepts** (Gazelle Wind Power, BlueTwin, GE semi-sub in 1000 m depth, X1Wind, BW Ideol 16 MW, MonobaseWind MSPAR, GustoMSC Tri-Floater…)

Most recently, OCEANIDE completed the **Beefore** R&D project under the French "France 2030" investment program, using the VolturnUS floater. The project focuses on **real-time hybrid modelling** (Software-in-the-Loop via OrcaFlex) to simulate wind loads on the RNA during tests.

Both the South France Ocean Basin and the **Beefore** project will be featured during a side event at IOWTC 2025.

Address: Zone Portuaire de Brégaillon Bâtiment FIRST, 83500 La Seyne-sur-Mer

Venue - Banquet

28th October, 20:00-22:00

Palais du Commerce et de la Mer-Toulon:

Ideally situated on Toulon's waterfront, the Palais du Commerce et de la Mer is a two-level modern conference center with luminous, glass-walled halls and adjoining terraces overlooking the harbor. The banquet will provide an amazing opportunity to meet and greet fellow professionals in the field. Please enjoy the banquet and connect with as many people as you can!

Address: Palais du Commerce et de la Mer, 364 Av. de l'Infanterie de Marine, 83000 Toulon

General Information

Toulon:

Toulon, on France's Mediterranean coast, is famed for its vast natural harbor and long naval heritage. Key landmarks include the Cathedral of Notre-Dame-De-la-Seds, with 11th-century origins, and the Royal Tower, a 16th-century fortress guarding the port. Rising above the city, Mont Faron offers panoramic views and hosts a memorial to the 1944 Liberation of Provence. With its lively Old Town, Provençal markets, and seaside setting, Toulon blends history, culture, and maritime tradition.

A representative map of different sites to see in Toulon. Feel free to look around this beautiful town in your free time!

Accommodation Options:

Toulon offers a variety of accommodation options near the conference venue and city center. Early booking is recommended.

Hotel	Location (Walkin Distance to University)	Booking Website
Ibis Styles Toulon Centre Port	Approx. 6 minutes	Booking Link
Grand Hôtel du Dauphiné	Approx. 20 minutes	Booking Link
Hôtel Amirauté	Approx. 18 minutes	Booking Link
Best Western Plus La Corniche	Approx. 25 minutes	Booking Link
Hôtel Bonaparte	Approx. 20 minutes	Booking Link
Hôtel Little Palace	Approx. 15 minutes	Booking Link
OKKO Hotels Toulon	Approx. 10 minutes	Booking Link

Coming to Toulon

- **By Train:**
  - **Nearest Train Station**: Toulon Station (Gare de Toulon)
  - Toulon Station is well-connected to major cities in France via high-speed trains (TGV) and regional trains (TER). For example:
    - From Paris: Approx. 4 hours by TGV.
    - From Marseille: Approx. 1 hour by TER or 45 minutes by TGV.
    - From Nice: Approx. 1.5 hours by TER or 1 hour by TGV.

  - **From Toulon Station to the Venue:**
    - **By Taxi**: A taxi ride to the University of Toulon takes around 15 minutes. (cash preferred)
    - **By Bus**: Take Bus Line 11-3-191-70-15 and stop at Campus Porte d'Italie The journey takes approximately 20 minutes (https://www.reseaumistral.com/se-deplacer/calcul-ditineraire)
  - **Train Tickets: Book your Tickets Now**
- **By Air:**

  - **Nearest Airport**: Toulon-Hyères Airport (TLN)
  - Distance to the venue: Approx. 25 km (30 minutes by car).
  - **Alternative Airports:**
    - **Marseille Provence Airport (MRS)**: Approx. 90 km (1.5 hours by car or 2 hours by train).
    - **Nice Côte d'Azur Airport (NCE)**: Approx. 150 km (2 hours by car or 2.5 hours by train).
  - **From Toulon-Hyères Airport to the Venue:**
    - **By Taxi**: A taxi ride takes approximately 30 minutes. (cash preferred)
    - **By Shuttle Bus**: Take the shuttle bus to Toulon Station, then follow the instructions under "By Train."
- **By Car:**

  - Toulon is accessible via major highways:
    - **From Marseille**: Follow A50 (approx. 1 hour).
    - **From Nice**: Follow A8 and A57 (approx. 2 hours).
  - Parking: The University of Toulon offers limited parking on-site. Additional public parking options are available nearby.
- **Local Transportation:**
  - Bus Network: Toulon's public transport network (Réseau Mistral) operates frequent bus services. Tickets can be purchased online, at kiosks, or directly on the bus.
  - Taxi and Ridesharing: Services like Uber and Bolt operate in Toulon and the surrounding area.

Important Information

- **Badge Required for Admissions**
  - IOWTC requires all conference attendees to **always wear the official IOWTC 2025 badge** to gain admission to technical sessions, exhibits, and other conference events. Without a badge, you will not be permitted to attend any conference activities.
- **ASME Complimentary Membership**
  - Any attendee that pays a non-member conference registration fee will receive a four-month ASME membership free of charge. ASME will activate this complimentary membership for qualified attendees approximately four weeks after the conclusion of the conference.
- **Session Room Equipment**
  - Each session room is equipped with a projector, microphone, HMDI outlets Speakers should have their own laptop and a copy of their presentation loaded onto a memory stick. It is recommended that authors/speakers bring all visual aids with them.
- **Conference Papers Electronic Access**
  - All Full Conference Registrants will receive online access to papers and presentations made at 2025 IOWTC. Access will be granted using your registration email address. Papers that were not presented on site in Toulon will not be published in the conference proceedings and cannot be cited or indexed. You will be provided with an individual link to the online papers via email. In the event you do not receive the email, send a request to: conferencepubs@asme.org

General Information

- **Welcome Reception:**
  The Welcome Reception will be hosted on Monday the 27th of October from 17:00 to 19:00 at **University of Toulon ,35 Av. Alphonse Daudet, BP 1416,83056 Toulon Cedex, France**.
- **Conference Lunches:**
  Conference lunches will be held at **Toulon University, Faculty of Law** on:
  - Tuesday, the 28th of October from 13:00 to 14:00
  - Wednesday, the 29th of October from 12:00 to 13:00.

  Take this opportunity to share a meal and connect with colleagues
- **Coffee/Tea Breaks:**
  Coffee/Tea Breaks will be held at **Toulon University, Faculty of Law** on:
  - Tuesday, the 28th of October from 10:30-11:00 and 16:00-16:30
  - Wednesday, the 29th of October from 10:00-10:30 and 14:30-15:00.
- **Conference Banquet:**
  The Conference Banquet will be hosted on the 28th of October at **PALAIS du Commerce et de la Mer** from 20:00-22:00.
- **Emergency Information:**
  If you are experiencing a health emergency, please dial 112.
- **WI-FI Information:**
  - Connect to the Wi-Fi:
    - On your laptop, tablet, or smartphone, open your Wi-Fi settings and choose “Visiteurs.”
  - Open Your Browser:
    - Launch any web browser, and a login page will appear.
  - Enter the Temporary Code:
    - Type in this temporary password to unlock access: curie.83
    - Click the lock icon to continue.
  - Register for Access:
    - Since this is your first time connecting, tap the SMS button.
    - Fill in your name, phone number with your country code, and reason for your visit: eg: IOWTC Event, then press Register.
  - Check Your Text Messages:
    - You will get a text (SMS) with your username and password. This may take a few minutes, so be patient!
  - Log In:
    - Enter the username and password you received, check the box to agree to the terms of use, and click Submit.
  - Start Browsing:
    - Click the link provided, and you are ready to go online!

Schedule at a Glance

October 27th, 2025 - Afternoon				
2:00PM – 5:00PM		Technical Visit IFREMER / Océanide		
5:00PM - 7:00PM		Welcome Reception Faculty of Law, Hall		
October 28th, 2025 – Morning				
8:30AM - 9:00AM		Registration / Welcome Faculty of Law, Hall		
9:00AM - 9:30AM		Opening Ceremony Bailleux		
9:30AM - 9:50AM		Keynote - Benjamin Royer, Sales Director, Ekwil Bailleux		
9:50AM - 10:10AM		Keynote – TBC, TotalEnergies Bailleux		
10:10AM - 10:30AM		Keynote - Flavia Caldi Rezende, Vice-President Marketing & Sales, Bureau Veritas Bailleux		
10:30AM - 11:00AM		Coffee / Tea Break Hall		
11:00AM - 1:00PM	Technical Sessions	Mooring Bailleux	New & Innovative FOW Design Ortolan	Hydrodynamic and Coupled Analyses-1 Jean Claude Escarras
1:00PM - 2:00PM		Lunch Hall		
October 28th, 2025 – Afternoon				
2:00AM - 3:45PM	Technical Sessions	Cable Bailleux	Structural Design-1 Ortolan	Model Testing-1 Jean Claude Escarras
3:45PM – 4:15PM		Coffee / Tea Break Hall		
4:15PM - 6:15PM	Technical Sessions	Mooring & Cable Bailleux	Structural Design-2 Ortolan	Turbine Modeling & Technology Jean Claude Escarras
8:00PM -10:00PM		Conference Banquet Palais du Commerce et de la Mer, Toulon Harbor		

October 29th, 2025 – Morning				
8:30AM - 9:00AM		Registration / Welcome Faculty of Law, Hall		
9:00AM - 9:20AM		Keynote - Dominique Roddier, CEO, OCERGY Bailleux		
9:20AM - 9:40AM		Keynote - Prof. Thierry Soriano, Executive Vice President, Strategic Development, Toulon University Bailleux		
9:40AM - 10:00AM		Keynote - Christine de Jouëtte, Provence Grand Large Project Director, EDF Power Solutions Bailleux		
10:00AM - 10:30AM		Coffee / Tea Break Hall		
10:30AM - 12:30PM	Technical Sessions	Project & Maintenance Bailleux	Structural Design-3 Ortolan	Hydrodynamic and Coupled Analyses-2 Jean Claude Escarras
12:30PM - 1:30PM		Lunch Hall		
October 29th, 2025 – Afternoon				
1:30AM - 3:30PM	Technical Sessions	Construction & Industrialization Bailleux	Metocean & Environment-1 Ortolan	Hybrid System & Substation Jean Claude Escarras
3:30PM – 4:00PM		Coffee / Tea Break Hall		
4:00PM - 6:00PM	Technical Sessions	Digital Bailleux	Biofouling Ortolan	Model Testing-2 Jean Claude Escarras
6:00PM – 6:15PM		Closing Ceremony Bailleux		

Opening Ceremony

Tuesday 28th October, 9:00-9:30, Faculty of Law, Bailleux

François de CANSON

Vice-President, in charge of economic development, attractiveness, tourism and major risk prevention

Provence-Alpes-Côte d'Azur region

Xavier LEROUX

President of Toulon University

Emmanuel VULLIERME

Strategy Director

EVOLEN

IOWTC 2025 Conference Chair

Marc CAHAY

Offshore R&D Manager

Technip Energies

IOWTC 2025 Technical Program Chair

Keynote Speakers

Tuesday 28th October, 9:30-10:30, Faculty of Law, Bailleux

- **9:30-9:50: Benjamin Royer**

  Sales Director, Ekwil

Title: Floating Wind at Scale: Delivering with Certainty.

Biography: Benjamin Royer is Sales Director at Ekwil, the 50/50 joint venture of Technip Energies and SBM Offshore dedicated to floating offshore wind. With two decades of experience in the offshore energy industry, he has built deep expertise in major EPCI contracts, project partnerships, and business development.

At Technip Energies, he held senior roles in legal contracting, consortium management, and M&A before moving into sales and business development for floating wind in France and Southern Europe. Today at Ekwil, Benjamin leads the commercial strategy to deliver bankable and scalable floating wind projects worldwide.

- **9:50-10:10: Mireille Franco**

  Head of Offshore Wind Structures, TotalEnergies

Technical path to multi-GW capacity

Biography: Mireille FRANCO is a Naval Architect with a MSc (Master in Science) from the Polytechnic School in Madrid. She has spent the past 25 years working as a naval architect on countless marine and offshore related assets all around the world: West Africa, Singapore, Argentina, Dominican Republic, France… From the design to the decommissioning of the assets through construction and the follow up of their integrity on site, she has enjoyed each and every position in three different branches of TotalEnergies: Exploration & Production (Upstream), Marketing & Services (Downstream) and OneTech (Engineering and Technologies) Today, she is Head of Offshore Wind Structures dpt in OneTech branch. Based in La Défense- Paris, she leads the activities related to offshore wind structures, with a team which is recognized by its expertise in structures, and which deals with the techno-economic challenges of the sector.

Her career is marked by numerous participations in international events representing TotalEnergies' technical voice in strategic and industrial forums.

- **10:10-10:30: Flavia Caldi Rezende**

  Vice-President Marketing & Sales, Europe Region, Bureau Veritas

  Title: Offshore Wind Ventures: Navigating De-Risking Strategies for Technical and Financial Confidence

  Biography: Flavia has a background in Naval Architecture from Federal University of Rio de Janeiro with MSc on Hydrodynamics of Offshore Structures. She joined Bureau Veritas in 2001 and has since developed her career in different technical fields and managerial roles. In 2020 she left Bureau Veritas and worked as VP Projects for Principle Power, a leading Floating Offshore Wind Turbine designer. In 2024, Flavia returned to Bureau Veritas in charge of the advisory services for Marine & Offshore Division and she has recently been assigned to the position of VP Marketing & Sales for Europe Region, starting on October 1st. Flavia is passionate about the energy sector and innovation.

Wednesday 29th October, 9:00- 10:00, Faculty of Law, Bailleux

- **9:00-9:20: Dominique Roddier, CEO, OCERGY**

  Title: From 2MW Pioneers to 20MW+ Giants: When Innovation and Engineering redefine Floating Wind's Future

  Biography: Dr. Dominique Roddier is the CEO of Ocergy, a company focused on developing Sustainable Offshore Solutions, a Naval Architect with significant expertise in ocean energy systems and a fortuitous serial renewable energy entrepreneur. Prior to Founding Ocergy with Alexia Aubault and Christian Cermelli, he served as Principle Power Chief Technology Officer and Director between 2007 and 2019. He is a co-inventor of the WindFloat. He obtained his doctorate in Naval Architecture from UC Berkeley, and after working in Houston in the offshore division of ExxonMobil's Upstream Research Company, co-founded Marine Innovation & Technology, a marine engineering consulting firm, which developed the MiniFloat hull concept, and provided consulting services to various offshore industries. In addition to Floating Offshore Wind, Dominique is an expert in the design of floating structures and has interests in synergies between various ocean related technologies. He is a Fellow member of SNAME and was the 2020 co-recipient of the Elmer A. Sperry Award for the development of the WindFloat. On his spare time, he is an avid sailor and enjoys mindful swimming and skiing actively.

- **9:20-9:40: Prof. Thierry Soriano**

  Executive Vice President, Strategic Development, Toulon University

  Title: Pedagogical and research potentials of University of Toulon for design and exploitation of offshore wind turbine

  Biography: Thierry Soriano is a full professor at the University of Toulon, affiliated with the COSMER Laboratory (Laboratoire de Conception de Systèmes Mécaniques et Robotiques). He is currently based at SEATECH engineering school.

  Professor Soriano's research spans industrial systems engineering, with a strong emphasis on mechatronics, autonomous systems, and marine robotics. His work integrates both modeling and methodological approaches, targeting applications in autonomous terrestrial and marine systems.

  His collaborative work includes projects such as *National Robosco*, which investigates collective robotics in environments with limited communication, and *ITEA MODRIO* with EDF, dedicated to modeling and analyzing complex electrical networks through the MODELICA physical object simulation language. Beyond these technical contributions, his research plays a strategic role in the Blue Economy, particularly by framing offshore technological advances within the context of the UN Sustainable Development Goals (SDGs).

  Professor Soriano has published extensively in journals such as Mechatronics and Applied Sciences, with notable works including:

  - **Object-unified approaches** for autonomous underwater vehicle control.
  - **Swarm robotics** for automated guided vehicles, which may have implications for offshore logistics and deployment.

- **9:40-10:00 : Christine de Jouëtte**

  Provence Grand Large Project Director, EDF Power Solutions

  Title: EDF power solutions: from 25 MW to 250 MW offshore floating wind park.

  Biography: Christine de Jouëtte has more than 14 years of experience in offshore wind industry and more than 22 years in hydrodynamics, including 7 years as loads department Head for WTG/foundation design and 8 years as Project Director of EDF power solutions Provence Grand Large project, the France's first floating offshore pilot wind farm under construction which consists of three 8.4 MW wind turbines on Tension leg platform (TLP) floater technology.

  She has master's degree in Naval Hydrodynamics and PhD in Fluid Dynamics and has extensive experience in project management, offshore wind tenders, wind turbines roadmap, floaters technologies assessment and development of R&D programs.

Technical Sessions

Note: Speakers' names are in bold.

Mooring

Tuesday, 28th, 11:00 AM to 1:00 PM - Bailleux

Chair: Philipp R. Thies - University of Exeter

Progress in Predicting Mooring Rope Responses

Technical Paper Publication: IOWTC2025-163869

Sam D. Weller - Tension Technology International Ltd

Stephen J. Banfield - Tension Technology International Ltd

Design and Assessment of Hybrid-Catenary Mooring Systems Using Steel Wire and Polyester Ropes for a 10MW Semi-Submersible and Spar-Buoy Wind Turbine

Technical Paper Publication: IOWTC2025-164603

Dimitrios Manolas - iWIND Renewables

Dimitrios Konispoliatis - National Technical University of Athens, School of Naval Architecture and Marine Engineering

Spyros Mavrakos - National Technical University of Athens

Maurizio Meleddu - Teufelberger-Redaelli Tecna S.p.A.

Parametric Investigation on Taut Mooring System of a 5MW SPAR FOWT for Deep Waters Under Normal and Freak Wave-Wind Conditions

Technical Paper Publication: IOWTC2025-164957

Arya Thomas - Indian Institute of Technology Bombay

Srineash V. K. - Indian Institute of Technology Bombay

Manasa Ranjan Behera - Indian Institute of Technology Bombay

Modelling of Nylon 6 Mooring Lines for Offshore Floating Wind Turbines

Technical Presentation Only: IOWTC2025-165094

Laure Cossalter - France Energies Marines

Laure Civier - France Energies Marines

Romain Ribault - France Energies Marines

Juliette Laurent - France Energies Marines

Guillaume Damblans - France Energies Marines

Jean-Sébastien Verjut - France Energies Marines

Guilhem Bles - ENSTA Bretagne

Yann Marco - ENSTA Bretagne

On the Mooring Loads of a Novel, Light-Weight Semi-Submersible FOWT Platform

Technical Paper Publication: IOWTC2025-165135

Md Touhidul Islam - The University of Edinburgh

Vengatesan Venugopal - The University of Edinburgh

New & Innovative FOW Design

Tuesday, 28th, 11:00 AM to 1:00 PM - Ortolan

Chair: Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Development of a Coupled Model for Disruptive Floating VAWT Concept

Technical Paper Publication: IOWTC2025-165099

Florian Ducerf - BLUETWIN
Cédric Perisse - BLUETWIN
Antoine Delon - BLUETWIN
Alexandre Cinello - BLUETWIN
Matthieu Minguez - BLUETWIN
Benjamin Rousse - Océanide
Thibaud Giroud - Océanide

Characterization & Modelling of the Wake of a Disruptive Floating VAWT for Yield Assessment

Technical Paper Publication: IOWTC2025-165119

Antoine Delon - Bluetwin
Simon Querat - Ifremer
Benoit Augier - Ifremer
Stéphane Barre - LEGI-CNRS
Guillaume Maurice - Hydroquest
Matthieu Minguez - Bluetwin

Structural Integrity of a Reinforced Concrete Semi-Submersible Platform for a 15 MW Floating Offshore Wind Turbine,

Technical Paper Publication: IOWTC2025-165295

John H. Chujutalli - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Mojtaba Maali Amiri - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro
Segen Farid Estefen - National Institute for Ocean Research-INPO

An Improved Mass-Constructible Concrete Tension Leg Foundation Design,

Technical Presentation Only: IOWTC2025-172808

Thomas Choisnet - Eole Stab
Stéphanie Durand - Eole Stab
Julien Durand - Eole Stab
Philippe Durand - Eole Stab

Hydrodynamic and Coupled Analyses-1

Tuesday, 28th, 11:00 AM to 1:00 PM - Jean Claude Escarras

Chair: Paul Pergler - Principia

Guidelines for Fowt Support Structure Design Assessment

Technical Presentation Only: IOWTC2025-163672

Vincent Arnal - Bureau Veritas
Jérôme De Lauzon - Bureau Veritas
Cédric Brun - Bureau Veritas

Breaking Wave-Induced Slamming Load From Underlying Linear Properties

Technical Presentation Only: IOWTC2025-164789

Paul Renaud - France Energies Marines
Florian Hulin - Ecole Centrale de Nantes
Alice Courtet - France Energies Marines
Alan Tassin - Ifremer
Marc Prevosto - France Energies Marines
Jean-François Filipot - France Energies Marines
Nicolas Jacques - ENSTA Bretagne
Neil Luxcey - France Energies Marines

Efficient Structural Assessment Approaches for the Design of Floating Offshore Wind Turbine Substructures

Technical Paper Publication: IOWTC2025-164818

Imanol Touzon - DNV
Won Ho Lee - DNV
Renata M. Grabowsky Nunes - DNV
Jens Eftang - DNV

Fully Coupled Aero-Hydro-Structural Analysis of Floating Wind Platforms

Technical Presentation Only: IOWTC2025-165235

Borja Serván-Camas - International Centre for Numerical Methods in Engineering
Julio García-Espinosa - Universidad Politécnica de Madrid (UPM)
Irene Berdugo_parada - Centre Internacional de Mètodes Numèrics a l'Enginyeria (CIMNE)
Andrés Pastor - Universidad Politécnica de Madrid (UPM)

Evaluation of Reduced Order Models for an Initial Assessment of Floating Wind Turbine Dynamics

Technical Paper Publication : IOWTC2025-165270

Jordi Mas Soler - Universidade de São Paulo
Giovanni Aiosa Do Amaral - Universidade de São Paulo
Pedro Cardozo De Mello - Universidade de São Paulo
Alexandre Nicolaos Simos - Universidade de São Paulo
Daniel Fonseca De Carvalho E Silva - Petróleo Brasileiro S.A.

Cable

Tuesday, 28th, 2:00 PM to 3:45 PM - Bailleux

Chair: Antoine Felix-Henry - Aventa

Motion Induced Vibration: Time-Domain Analysis Validated Against Experimental Results

Technical Paper Publication: IOWTC2025-159008

Decao Yin - SINTEF Ocean
Jie Wu - SINTEF Ocean
Elizabeth Passano - SINTEF Ocean
Halvor Lie - SINTEF Ocean

Svein Sævik - NTNU - Norwegian University of Science and Technology

Exploring Novel Configuration Designs Alternatives for Lazy Wave Submarine Power Cables

Technical Paper Publication: IOWTC2025-163801

Philipp R. Thies - University of Exeter
Stephane Kovacs - University of Exeter
Ian Ashton - University of Exeter
Neil Brown - Seathor Ltd
Andy Simmonds - Seathor Ltd
Senu Sirnivasc - National Renewable Energy Laboratory (NREL)

Subsea Smart Hubs for Floating Wind

Technical Paper Publication: IOWTC2025-164626

Antoine Felix-Henry - Aventa
Lorenzo Pozzi - Aventa
Nourredine Hamri - Aventa
Remi Le Dru - Aventa
Maya Mourad - SuperGrid Institute
Amjad Mouhaidali - SuperGrid Institute
Nicolas Barla - SuperGrid Institute
Sébastien Jadaud - Systemes et Connectique du Mans

Coupled Thermal Modelling for Dynamic Submarine Power Cable in Varying Sea Temperatures

Technical Paper Publication: IOWTC2025-165128

Abid Arham - University of Exeter
Philipp R. Thies - University of Exeter
Ajit C. Pillai - University of Exeter
Stylianos Koumlis - Hellenic Cable Industry

Calculation of the Local Mechanical Strain and Stress in Dynamic Power Cable With Two Different Approaches Focusing on Metallic Screen

Technical Paper Publication: IOWTC2025-165407

Gauthier Gudendorff - IFP Energies nouvelles
Michaël Martinez - IFP Energies nouvelles
Martin Guiton - IFP Energies nouvelles
Antoine Félix-Henry - Aventa
Rémi Le Dru - Aventa
Thibault Bouard - Aventa

Structural Design-1

Tuesday, 28th, 2:00 PM to 3:45 PM - Ortolan

Chair: Romain Pinguet - Akselos

Coupled-System Eigenfrequency Analysis in Design of Floating Offshore Wind Turbine

Technical Paper Publication: IOWTC2025-158988

Nicolas Germain - Principle Power
Jérôme De Lauzon - Bureau Veritas
Bradley A. Ling - Principle Power

Tiago Duarte - Ocean Winds
Daniel Ribeiro - Ocean Winds

A Spectral Approach for Fatigue Damage Monitoring of Floating Offshore Wind Substructure Under Broad Banded Stress Responses

Technical Paper Publication: IOWTC2025-163987

Romane Le Pellec - DNV
Francois-Xavier Sireta - DNV

Multiaxial Fatigue Initiation-Propagation Modelling With Microstructure Effects for Welded Monopile Offshore Support Structures

Technical Paper Publication: IOWTC2025-164536

Brian Donnelly - University of Galway
Hamidreza Badakhshian - University of Galway
Jaon Muhammad Haider - University of Galway
Richard Barrett - University of Galway
Sean Leen - University of Galway

Efficient Integrated Design Using Unified Finite-Element Substructure Equations Within a Global Floating Offshore Wind Turbine Simulation Model

Technical Paper Publication: IOWTC2025-164610

Marian Albers - Sowento GmbH
Lemmer Frank - Sowento GmbH
Steffen Raach - Sowento GmbH
Takuya Sakaki - Taisei Corporation
Hiroshi Shiratani - Taisei Corporation

Project Success and Competitive Substructures Through Simultaneously Efficient and Accurate FOWT Fatigue Direct Computation

Technical Paper Publication: IOWTC2025-164940

Julien Pélé - Ekium
Laurent Mutricy - Ekium
Johyun Kyoung - Front Energies
Jang Kim - Front Energies
Alexis Martin - STAPEM Group
Raffaello Antonutti - Ekium
Youjin Yim - Front Energies
Hyungtae Lee - Front Energies

Model Testing-1

Tuesday, 28th, 2:00 PM to 3:45 PM - Jean Claude Escarras

Chair: Arjen Koop - Marin

Chair: Benjamin Bailly - Océanide

Experimental Study on Vortex-Induced Motion of a Towed FOWT in Currents and Waves

Technical Paper Publication: IOWTC2025-164223

Ueno Daichi - The University of Tokyo

Shinichiro Hirabayashi - The University of Tokyo
Gonçalves Rodolfo - The University of Tokyo

Dynamic Response of FOWT Power Cables in Shallow Water
Technical Paper Publication: IOWTC2025-164499
Claire Saunier - TechnipFMC
Alex Mendes - TechnipFMC
Benjamin Rousse - Océanide
Vincent Lafon - Océanide

Low-Frequency Extreme Response Waves: An Experimental Verification for Catenary-Moored Floating Offshore Wind Turbines
Technical Paper Publication: IOWTC2025-165248
David Lande-Sudall - Western Norway University of Applied Sciences - Department of Mechanical Engineering and Maritime Studies
Gloria Stenfelt - Western Norway University of Applied Sciences - Department of Mechanical Engineering and Maritime Studies
Peter Stansby - The University of Manchester

Hydrodynamic Load Distribution on Semi-Submersible Floating Offshore Wind Turbines Heave Plates: Experimental and CFD Investigations
Technical Paper Publication: IOWTC2025-165415
Benjamin Rousse - Océanide
Vincent Lafon - Océanide
Bernard Molin - Ecole centrale Méditerranée
Evgeny Andreev - Doris Group
Siane Lemoine - Doris Group
Marie Féron - TotalEnergies

Mooring & Cable

Tuesday, 28th, 4:15 PM to 6:15 PM - Bailleux
Chair: Philipp R. Thies - University of Exeter

Technical Standard for Synthetic Fiber Ropes for Floating Wind Applications
Technical Presentation Only: IOWTC2025-164349
Fabien Khouri - Bureau Veritas

Certification of Dynamic Subsea Power Cable
Technical Presentation Only: IOWTC2025-163188
Samuel Tanne - Bureau Veritas

Mooring Optimisation for Japanese FOW Conditions, Including Typhoon Loading and Site Variability
Technical Paper Publication: IOWTC2025-167635
Danny Golden - Dublin Offshore
Dr. Tom Doyle - Dublin Offshore
Darren Hayes - Dublin Offshore
Dr. Donghee Ko - Shimizu Corporation
Dr. Syed Hasan - Dublin Offshore

Floating Offshore Wind Farm Design Optimization, Including Mooring Line Orientations and Fatigue Design

Technical Paper Publication: IOWTC2025-165418

Alice Nassor - IFP Energies nouvelles
Yuksel Alkarem - National Renewable Energy Laboratory (NREL)
Michel Castagne - IFP Energies Nouvelles
Matthew Hall - National Renewable Energy Laboratory (NREL)
Junho Lee - Deep Anchor Solutions Inc
Ericka Lozon - National Renewable Energy Laboratory (NREL)
Paul Malisani - IFP Energies Nouvelles
Yann Poirette - IFP Energies nouvelles
Vishnu Ramachandran - Norwegian University of Science and Technology

Structural Design-2

Tuesday, 28th, 4:15 PM to 6:15 PM - Ortolan

Chair: Marc Cahay – Technip Energies

Comparison of a Semi-Submersible and Tension Leg Platform FOWTs in Extreme Irish Atlantic Waters

Technical Paper Publication: IOWTC2025-165255

Arman Aghaei Ganjgani - University College Cork
Gregorio Iglesias - University College Cork
Tom Doyle - Dublin Offshore
Michael O'Shea - University College Cork

A Detailed 3d Finite Element Method for Real-Time Calculation of Floating Wind Turbine Structural Dynamics

Technical Presentation Only: IOWTC2025-165403

Julio García-Espinosa - Technical University of Madrid
Borja Serván Camas - International Centre for Numerical Methods in Engineering
Andrés Pastor - Technical University of Madrid
Irene Berdugo - Centre Internacional de Mètodes Numèrics a l'Enginyeria (CIMNE)

A New Data-Driven Method for Structural Reliability-Based Lifetime Extension of Offshore Wind Support Structures

Technical Paper Publication: IOWTC2025-165440

John D. Sørensen - Aalborg University
Ulf T. Tygesen - Vattenfall
Johan F. Toftekær - Vattenfall
Michael S. Jepsen - Vattenfall

Application of the Global Influence Superposition Method for High-Speed Structural Assessment of Floating Wind Turbines

Technical Presentation Only: IOWTC2025-168845

Michael Karch - Ramboll

Efficient Structural Analysis Method for Floating Wind Platforms Through Potential Theory and Neural Networks

Technical Paper Publication: IOWTC2025-164970

Jon Cerrada-Garcés - CENER
Jose Azcona-Armendáriz - CENER
Alvaro Olcoz-Alonso - CENER
Amaia Marco - CENER
Clara E. Acosta - BERIDI

Offshore Wind-Powered Hydrogen Production: An Integrated Model for Technical and Economic Feasibility Assessment

Technical Presentation Only: IOWTC2025-172754

Milad Shadman - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Jeferson De Almeida - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Iago Chaves Bastos - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Janito Dos Santos Ramos - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Robson Dias - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Paulo Emílio Valadão De Miranda - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Segen Estefen - Offshore Renewable Energy Group-GERO/COPPE, Ocean Engineering Department, Federal University of Rio de Janeiro

Turbine Modeling & Technology

Tuesday, 28th, 4:15 PM to 6:15 PM - Jean Claude Escarras

Chair: Simon Puech - D-ICE Engineering

Aerodynamic Code-To-Code Comparison via IEA 22 MW Reference Turbine

Technical Paper Publication: IOWTC2025-164262

Barry Britton - University of Galway

Aengus Connolly - Wood

Oisin Conway - Wood

Sean Leen - University of Galway

A Novel Seismic Test on a Wind Turbine Nacelle: The Preliminary Findings

Technical Paper Publication: IOWTC2025-164905

Bai-Yi Huang - National Center for Research on Earthquake Engineering

Wei-Hung Hsu - National Center for Research on Earthquake Engineering

Juin-Fu Chai - National Center for Research on Earthquake Engineering

Fan-Ru Lin - National Center for Research on Earthquake Engineering

Development of a Numerical Validation Method for the Seismic Performance of Wind Turbine Nacelles

Technical Paper Publication: IOWTC2025-164907

Wei-Hung Hsu - National Center for Research on Earthquake Engineering, NARLabs

Bai-Yi Huang - National Center for Research on Earthquake Engineering, NARLabs

Juin-Fu Chai - National Center for Research on Earthquake Engineering, NARLabs

Fan-Ru Lin - National Center for Research on Earthquake Engineering, NARLabs

Hardware Implementation of Floating Offshore Wind Turbine Control Software

Technical Paper Publication: IOWTC2025-167650

Simon Puech - D-ICE engineering

Mattéo Capaldo - TotalEnergies

Domenico Di Domenico - TotalEnergies

Sofien Kerkeni - D-ICE engineering

A Review of the MIR Erasmus Mundus Master's Program After 4 Years of Activity,

Technical Paper Publication: IOWTC2025-167955

Vincent Hugel - University of Toulon
Ricard Marxer - University of Toulon
Thierry Soriano - University of Toulon
Pedro Sanz - Jaume I University (UJI)
Raúl Marin - Jaume I University (UJI)
Pedro Batista - IST Técnico Lisboa | ULisboa
Antonio Pascoal - IST Técnico Lisboa | ULisboa
Martin Ludvigsen - NTNU - Norwegian University of Science and Technology

Project & Maintenance

Wednesday, 29th, 10:30 AM to 12:30 PM - Bailleux

Chair: Laure Cossalter - France Energies Marines

Environmental Considerations Following the Enactment of the Special Act on Offshore Wind Power

Technical Presentation Only: IOWTC2025-172607

Taeyun Kim - Korea Environment Institute
Mikoung Ha - Ministry of Environment
Sejin Kim - Ministry of Environment

Willingness-to-Pay for Eco-Engineering Applied to Floating Wind Turbines: Insights From France and the United States

Technical Presentation Only: IOWTC2025-164493

Antoine Dubois - Nantes Université
Pierre-Alexandre Mahieu - Nantes Université, LEMNA
Alison Bates - Buck Lab - Colby College
Franck Schoefs - Nantes Université

Autonomous Floating Measurement Platform OCG-DATA

Technical Paper Publication: IOWTC2025-165417

Nathan Tom - Ocergy
Franck Lebrun - Ocergy
Valentin Mulet - Ocergy
Dominique Roddier - Ocergy

Insights From the Demosath Project: Operational Performance and Lessons After Two Years of Operation

Technical Presentation Only: IOWTC2025-167872

Juan Peña Lasso - Saitec Offshore Technologies
Manuel Fernandez Perez - Saitec Offshore Technologies
Irati Larrinaga - Saitec Offshore Technologies
Raul Campos Puente - Saitec Offshore Technologies
Josune Pastor Olmos - Saitec Offshore Technologies

A Geospatial Database and Public Consulting System for Offshore Wind Farm Site Selection, South Korea

Technical Presentation Only: IOWTC2025-172697

Young Jae Yi - Korea Environment Institute

Seung Hye Heo - Ministry of Environment
Sejin Kim - Ministry of Environment

Vimflo: Advancing In-Situ Maintenance for Floating Offshore Wind Supported by Basin Test
Technical Presentation Only: IOWTC2025-172753
Cyrille Dechiron - Technip Energies
Victor Godineau - Technip Energies

Structural Design-3

Wednesday, 29th, 10:30 AM to 12:30 PM - Ortolan
Chair: Nicolas Germain - Principle Power Inc.

Accelerating Integrated Loads Analysis for Offshore Wind Turbines With Efficient Reduction and Recovery
Technical Paper Publication: IOWTC2025-165420
Martin Bjerre Nielsen - Wood Thilsted
Berat Ercin - Wood Thilsted
Paulius Bucinskas - Wood Thilsted

Modelling the Structural Response of a Wave Slamming Event on a Monopile
Technical Presentation Only: IOWTC2025-172616
Michael O'Shea - University College Cork
Arman Aghaei Ganjgani - University College Cork
Paul Renaud - France Energies Marine
Jean-François Filipot - France Energies Marines
Christophe Peyrard - EDF
Amiya Pandit - University College Cork
Aengus Connolly - Wood
Oisin Conway - Wood
Jason Jonkman - National Renewable Energy Laboratory (NREL)
Lu Wang - National Renewable Energy Laboratory (NREL)
Alan Tassin - Ifremer

Challenges and Recent Developments in Structural Health Monitoring in the Transition From Oil and Gas to Floating Wind Assets
Technical Presentation Only: IOWTC2025-163472
George Jagite - Bureau Veritas

Structural Analysis of the Volturnus-S Reference Wind Turbine Platform: A Case Study of Fully Coupled vs. Sequentially Coupled Analyses
Technical Presentation Only: IOWTC2025-172620
Karim Raed Hussein - Offshore Renewable Energy Catapult
Hyunjoo Lee - Offshore Renewable Energy Catapult
Dylan Duncan - Offshore Renewable Energy Catapult

Dynamic One-Way Coupling of a Holistic Shell Model for Time-Domain Structural Assessment of Floating Wind Turbines
Technical Presentation Only: IOWTC2025-172792
Jeremy Nahon - Akselos
Sylvain Vallaghe - Akselos

Thang Do - Akselos
Romain Pinguet - Akselos
David Knezevic - Akselos

Bridging Concrete Floater Design Gap for Europe's Next-Generation Wind Farms
Technical Presentation Only: IOWTC2025-172823
Luc Mouton - MAREAL

Hydrodynamic and Coupled Analyses-2

Wednesday, 29th, 10:30 AM to 12:30 PM - Jean Claude Escarras
Chair: Neil Luxcey - France Energies Marines

FOWT Coupled Model and Comparison With In-Situ Measurements
Technical Paper Publication: IOWTC2025-167648
Mathieu Remy - Principia
Paul Pergler - Principia
Jean-Michel Heurtier - Principia
Cedric Le Cunff - Principia

Mid-Fidelity and High-Fidelity Simulation of a Floating Wind Turbine in Irregular Sea States
Technical Paper Publication: IOWTC2025-168525
Gaspard Engel - Nantes Université
Marie-Laure Ducasse - Saipem
Benjamin Bouscasse - Nantes Université
Vincent Leroy - Nantes Université
Pierre Ferrant - Nantes Université

On the Application of Short Design Events to a Spar Type Floating Wind Turbine
Technical Presentation Only: IOWTC2025-172561
Tom Tosdevin - University of Plymouth
Lige Zhao - University of Plymouth
Scott Brown - University of Plymouth
Martyn Hann - University of Plymouth
Deborah Greaves - University of Plymouth

A Rational Multi-Body Approach for Distributing First-Order Hydrodynamic Loads on Flexible Models of Floating Wind Turbines in Coupled Simulations
Technical Presentation Only: IOWTC2025-172584
Serag-Eldin Abdelmoteleb - SINTEF Ocean
Erin Bachynski-Polic - NTNU - Norwegian University of Science and Technology
Øyvind Ygre Rogne - SINTEF Ocean
Thomas Sauder - SINTEF Ocean

Hydroelastic Response and Modelling of a Flexible Spar: From Rigid to Elastic Body With Numerical Validation
Technical Presentation Only: IOWTC2025-172610
Florian Castillo - Longitude-OWC
Jean-Christophe Gilloteaux - OWC
Seung-Yoon Han - Ecole Centrale de Nantes

Vincent Leroy - Ecole Centrale de Nantes

Predicting Breaking Wave Loads for Offshore Wind Farm Sites

Technical Presentation Only: IOWTC2025-172676

Lige Zhao - University of Plymouth
Alistair Borthwick - University of Plymouth
Jiaxin Chen - University of Plymouth
Tom Tosdevin - University of Plymouth
Deborah Greaves - University of Plymouth

Construction & Industrialization

Wednesday, 29th, 1:30 PM to 3:30 PM - Bailleux

Chair: Thomas Choisnet - Eole Stab

From Synthetic Fiber Rope Testing to Mooring Design of Floating Offshore Turbines

Technical Paper Publication: IOWTC2025-163754

Jean-Luc Pelerin - SBM Offshore
Renaud Daran - Ekwil
Julien Prieur - Ekwil

A Radical Departure From Traditional Welding

Technical Presentation Only: IOWTC2025-164922

Paul Cheng - Fusering Inc

Parametric Modelling and Robotic Trajectory Generation for Inspection of Welded Tubular Joints

Technical Paper Publication: IOWTC2025-164952

Micaela Gomez Coronel - Universidade da Coruña
Alberto Ramil - Universidade da Coruña
Armando Yáñez - Universidade da Coruña
Javier Montero - Universidade da Coruña

Experimental Assessment of an Innovative Watertight Membrane for Chloride Ingress Prevention in Floating Offshore Wind Concrete Foundations

Technical Presentation Only: IOWTC2025-165243

Nicolas Calvet - BW Ideol
Walaa Farhat - Ecole Centrale de Nantes
Magali Mouries - BW Ideol
Thomas Soulard - Open-C
Stéphanie Bonnet - Université de Nantes
Emmanuel Roziere - Ecole Centrale de Nantes

A Parametric Dimensional and Structural Iteration Study for the Floating Wind Turbine Support Structures

Technical Paper Publication: IOWTC2025-165399

Shunsuke Nishimura - Japan Marine United Corporation
Haruki Yoshimoto - Japan Marine United Corporation
Ken Kamizawa - Japan Marine United Corporation
Ryo Matsuoka - Nihon Ship Yard Corporation

Innovative Solutions for Floating Offshore Wind

Technical Presentation Only: IOWTC2025-172726

Alderic Blanc - SAFIER INGENIERIE SAS

Kevin Aubriere - SAFIER INGENIERIE SAS

Metocean & Environment

Wednesday, 29th, 1:30 PM to 3:30 PM - Ortolan

Chair: Arjen Koop - MARIN

Eco-Friendly and Cost Effective Solution for Ballasting Floating Offshore Wind Turbines

Technical Presentation Only: IOWTC2025-163711

Eric Hansen - Hansen Marine Energies

Joint Estimation of Extreme Wind and Wave Statistics Under Tropical Cyclones for the Design of Offshore Wind Turbines

Technical Presentation Only: IOWTC2025-164937

Jean-Francois Filipot - France Energies Marines

Fabien Leckler - France Energies Marines

Clément Pouplin - France Energies Marines

Paul Renaud - France Energies Marines

Nicolas Raillard - Ifremer

Léo Vinour - Hokkaido University

Marc Prevosto - France Energies Marines

Alexis Mouche - Ifremer

Bertrand Chapron - Ifremer

Swen Jullien - Ifremer

A New Acoustic Monitoring and Source Positioning System for Wind Farms

Technical Paper Publication: IOWTC2025-164941

Sebastian Marzetti - Université de Toulon

Valentin Gies - Université de Toulon

Valentin Barchasz - Université de Toulon

Hervé Glotin - Université de Toulon

A New Underwater Acoustic Monitoring and Source Positioning System for Offshore Wind Farms

Technical Paper Publication: IOWTC2025-164956

Sebastian Marzetti - Université de Toulon

Valentin Gies - Université de Toulon

Valentin Barchasz - Université de Toulon

Hervé Glotin - Université de Toulon

Transfer Learning for Cetacean Monitoring in the Context of Mediterranean Offshore Windfarms

Technical Presentation Only: IOWTC2025-165144

Lou Gaillard - Ecole Pratique des Hautes Etudes

Tristan Villepreux - Université de Toulon

Hervé Glotin - Université de Toulon

Stéphane Chavin - Université de Toulon

Pierre Lefèvre - Qair Marine

Serge Planes - Centre National de la Recherche Scientifique

The Critical Role of Metocean Measurements in Offshore Wind Farm Development

Technical Presentation Only: IOWTC2025-165268

Elsa Defachelle - Nortek Méditerranée

Caroline Valmori - Nortek Méditerranée

Hybrid System & Substation

Wednesday, 29th, 1:30 PM to 3:30 PM - Jean Claude Escarras

Chair: Marc Cahay - Technip Energies

Chair: Mélanie Roulet - France Energies Marines

Towards Reliability Risk Analysis of Offshore Wind Farm Substations for Insurance Applications

Technical Paper Publication: IOWTC2025-165304

Muhammad Ahmad - University of Exeter

Philipp R. Thies - University of Exeter

Mario Recker - University of Exeter

Tariq Dawood - Aviva

Nick Nardiello - Aviva

Pre-Conceptual Design of a Floating Offshore Hydrogen Substation

Technical Presentation Only: IOWTC2025-165410

Mélanie Roulet - France Energies Marines

Camil Matoug - France Energies Marines

Laura Suarez - INNOSEA

Caroline Valenchon - INNOSEA

Florian Dupriez-Robin - France Energies Marines

Caroline Mevel - Ekium

Gweanëlle Benoit - Ekium

Sylvanie Sieng - Seaway7

Bertrand Auriac - Seaway7

Marie Robert - France Energies Marines

Lénaïg Mellaza - France Energies Marines

Hyfloat1: Semi-Submersible Platform Design Integrating Wind Generation, Electrolysis and Hydrogen Storage

Technical Presentation Only: IOWTC2025-165701

Dam Pham - University College Cork

Quang Vu Dinh - University College Cork

Paul Leahy - School of Engineering, University College Cork

Innovations in Power Module and Valve Design for Offshore Applications of Vsc-Hvdc

Technical Presentation Only: IOWTC2025-167629

Richard Cooke - Rongxin Power Ltd

Graeme Bathurst - Rongxin Power Ltd

Paolo Bordignon - Rongxin Huiko Electric Co.,Ltd

Rong Yi - Rongxin Huiko Electric Co.,Ltd

Ting Lu - Rongxin Huiko Electric Co.,Ltd

Comparative Frequency Domain Hydrodynamic Analysis Study of Hybrid Owc-Floating Offshore Wind Turbine Platform

Technical Presentation Only: IOWTC2025-172650

Fares M'zoughi - University of Victoria (UVic)
Virag Mishra - Oregon State University
Curran Crawford - University of Victoria
Izaskun Garrido - University of the Basque Country
Aitor J. Garrido - University of the Basque Country

Digital

Wednesday, 29th, 4:00 PM to 6:00 PM - Bailleux

Chair: Nicolas Guy - IFP Energies nouvelles

Application of a Digital Twin Framework for Response of Floating Offshore Wind Turbine Foundations to Laboratory Mooring Failures

Technical Paper Publication: IOWTC2025-164342

Pietro D. Tomaselli - DHI
Bjarne Jensen - DHI

Floating Offshore Wind Turbines Digital Twin Calibration From Operational Data Through Operational Modal Analysis and Optimization

Technical Paper Publication: IOWTC2025-164947

Nicolas Guy - IFP Energies nouvelles
Jean-Lou Pfister - IFP Energies nouvelles
Alexis Benhamou - TotalEnergies
Pavel Dedeev - Technip Energies
Nicolas Loustaunau - Saipem
Jérôme De Lauzon - Bureau Veritas

A Digital Twin Tracking Sensor Data in Real-Time on a Floating Offshore Wind Turbine

Technical Paper Publication: IOWTC2025-165461

Niclas Jacob - Sowento GmbH
Lemmer Frank - Sowento GmbH
Marian Albers - Sowento GmbH
Steffen Raach - Sowento GmbH
Clare Thomas - AMOG

Development and Calibration of a Structural Digital Twin for Floating Offshore Wind

Technical Paper Publication: IOWTC2025-167883

Nicolas Georges - 2H Offshore
Ricky Thethi - 2H Offshore
Philippe Jean - 2H Offshore

A Structural Integrity Digital Twin for the Kincardine Floating Wind Farm

Technical Presentation Only: IOWTC2025-172337

Owen Pocock - 2H Offshore
Philippe Jean - 2H Offshore

Biofouling

Wednesday, 29th, 4:00 PM to 6:00 PM - Ortolan

Chair: Valentin Gies - Université de Toulon

Chair: Christian Windt - TU Braunschweig

Spatial and Temporal Variability of Biofouling on Offshore Wind Turbines and Connecting Network: Implications for Structural Design and Maintenance

Technical Presentation Only: IOWTC2025-163992

Aurélie Portas - France Energies Marines
Lucas Pinsivy - Institut Universitaire Européen de la Mer
Jacques Grall - Institut Universitaire Européen de la Mer
Guillaume Damblans - France Energies Marines
Jean-François Briand - Laboratoire MAPIEM
Nolwenn Quillien - France Energies Marines

Remote Monitoring of the Growth of Biofouling on Dynamic Electrical Cables and Mooring Lines of Floating Wind

Technical Paper Publication: IOWTC2025-164459

Franck Schoefs - Nantes Université
Ziad Maksassi - Nantes Université
Benoit Parrein - Nantes Université
Ahmed Gueled - Nantes Université
Bertrand Garnier - Nantes Université

Review of Soft Fouling Impact on Floating Offshore Wind Turbines: Research Gaps in Long Algae Morphological and Mechanical Characteristics

Technical Paper Publication: IOWTC2025-165242

Nazila Emamdoost - Nantes Université
Franck Schoefs - Nantes Université
Krish Thiagarajan Sharman - University of Massachussets, Ahmerst
Justine Dumay - Nantes Université
Jean-Christophe Thomas - Nantes Université

Added Mass and Drag Coefficients of Biofouled Mooring Chains in Waves

Technical Paper Publication: IOWTC2025-165256

Krish Sharman - University of Massachusetts Amherst
Franck Schoefs - Nantes Université
Nazila Emamdoost - University of Massachusetts Amherst
Maduka Maduka - Worcester Polytechnic Institute
Jean-Christophe Thomas - Nantes Université

Experimental Investigation of Wave-Induced Forces on a Pile With Living Marine Growth

Technical Presentation Only: IOWTC2025-172668

Henri Busch - TU Braunschweig
Clemens Krautwald - TU Braunschweig
David Schürenkamp - TU Braunschweig
Constantin Schweiger - TU Braunschweig
Christian Windt - TU Braunschweig

Nils Goseberg - TU Braunschweig

Hydrodynamic Effect of Soft Marine Growth on Offshore Structures

Technical Presentation Only: IOWTC2025-172669

Henri Busch - TU Braunschweig

Gael Verao Fernández - TU Braunschweig

Christian Windt - TU Braunschweig

Nils Goseberg - TU Braunschweig

Model Testing-2

Wednesday, 29th, 4:00 PM to 6:00 PM - Jean Claude Escarras

Chair: Benjamin Bailly - Océanide

Development of Modular Large Scale Wind Generation System for Next-Generation Floating Offshore Wind Turbines, Floating Solar Energy Farms and Floating Offshore Infrastructure

Technical Presentation Only: IOWTC2025-172587

Arjen Koop - MARIN

Gijs Bouman - MARIN

Erik-Jan De Ridder - MARIN

William Otto - MARIN

Hydrodynamic Evaluation of an Innovative Floating Platform for Offshore Wind: A Comparative Physical Model Study

Technical Presentation Only: IOWTC2025-172613

Elif Turkarslan - Izmir Institute of Technology

Yuksel Alkarem - University of Maine

Berguzar Ozbahceci - Izmir Institute of Technology

Unver Ozkol - Izmir Institute of Technology

Improved Fatigue Capacity of Tubular Connections Welded by Robots - Results From the Jaco Research Joint Industry Project

Technical Presentation Only: IOWTC2025-172749

Marc Vanderschueren - OCAS

Philippe Thibaux - OCAS

On the Development of Software-In-The-Loop Method to Test Floating Offshore Wind Turbine Concepts in the 'South France - Ocean Basin'

Technical Paper Publication: IOWTC2025-165424

Benjamin Rousse - Océanide

Benjamin Bailly - Océanide

Thierry Rippol - Océanide

Author Index

Last Name	First Name	Submission Code	Submission Title	Track/Session
Abdelmoteleb	Serag-Eldin	172584	A Rational Multi-Body Approach for Distributing First-Order Hydrodynamic Loads on Flexible Models of Floating Wind Turbines in Coupled Simulations	Hydrodynamic and Coupled Analyses-2
Aghaei Ganjgani	Arman	165255	Comparison of a Semi-Submersible and Tension Leg Platform FOWTs in Extreme Irish Atlantic Waters	Structural Design-2
Ahmad	Muhammad	165304	Towards Reliability Risk Analysis of Offshore Wind Farm Substations for Insurance Applications	Hybrid System & Substation
Albers	Marian	164610	Efficient Integrated Design Using Unified Finite-Element Substructure Equations Within a Global Floating Offshore Wind Turbine Simulation Model	Structural Design-1
Albers	Marian	165461	A Digital Twin Tracking Sensor Data in Real-Time on a Floating Offshore Wind Turbine	Digital
Arham	Abid	165128	Coupled Thermal Modelling for Dynamic Submarine Power Cable in Varying Sea Temperatures	Cable
Arnal	Vincent	163672	Guidelines for Fowt Support Structure Design Assessment	Hydrodynamic and Coupled Analyses-1
Aubriere	Kevin	172726	Innovative Solutions for Floating Offshore Wind	Construction & Industrialization
Bucinskas	Paulius	165420	Accelerating Integrated Loads Analysis for Offshore Wind Turbines With Efficient Reduction and Recovery	Structural Design-3
Busch	Henri	172668	Experimental Investigation of Wave-Induced Forces on a Pile With Living Marine Growth	Biofouling
Busch	Henri	172669	Hydrodynamic Effect of Soft Marine Growth on Offshore Structures	Biofouling
Calvet	Nicolas	165243	Experimental Assessment of an Innovative Watertight Membrane for Chloride Ingress Prevention in Floating Offshore Wind Concrete Foundations	Construction & Industrialization
Castillo	Florian	172610	Hydroelastic Response and Modelling of a Flexible Spar: From Rigid to Elastic Body With Numerical Validation.	Hydrodynamic and Coupled Analyses-2
Cerrada-Garcés	Jon	164970	Efficient Structural Analysis Method for Floating Wind Platforms Through Potential Theory and Neural Networks	Structural Design-2
Cheng	Paul	164922	A Radical Departure From Traditional Welding	Construction & Industrialization
Choisnet	Thomas	172808	An Improved Mass-Constructible Concrete Tension Leg Foundation Design	New & Innovative FOW Design
Chujutalli	John H.	165295	Structural Integrity of a Reinforced Concrete Semi-Submersible Platform for a 15 MW Floating Offshore Wind Turbine	New & Innovative FOW Design
Cooke	Richard	167629	Innovations in Power Module and Valve Design for Offshore Applications of Vsc-Hvdc	Hybrid System & Substation
Cossalter	Laure	165094	Modelling of Nylon 6 Mooring Lines for Offshore Floating Wind Turbines	Mooring
Daichi	Ueno	164223	Experimental Study on Vortex-Induced Motion of a Towed FOWT in Currents and Waves	Model Testing-1
Defachelle	Elsa	165268	The Critical Role of Metocean Measurements in Offshore Wind Farm Development	Metocean & Environment

Last Name	First Name	Submission Code	Submission Title	Track/Session
Delon	Antoine	165119	Characterization & Modelling of the Wake of a Disruptive Floating Vawt for Yield Assessment	New & Innovative FOW Design
Do	Thang	172792	Dynamic One-Way Coupling of a Holistic Shell Model for Time-Domain Structural Assessment of Floating Wind Turbines	Structural Design-3
Dubois	Antoine	164493	Willingness-to-Pay for Eco-Engineering Applied to Floating Wind Turbines: Insights From France and the United States	Project & Maintenance
Ducasse	Marie-Laure	168525	Mid-Fidelity and High-Fidelity Simulation of a Floating Wind Turbine in Irregular Sea States	Hydrodynamic and Coupled Analyses-2
Ducerf	Florian	165099	Development of a Coupled Model for Disruptive Floating VAWT Concept	New & Innovative FOW Design
Félix-Henry	Antoine	164626	Subsea Smart Hubs for Floating Wind	Cable
Gaillard	Lou	165144	Transfer Learning for Cetacean Monitoring in the Context of Mediterranean Offshore Windfarms	Metocean & Environment
García-Espinosa	Julio	165403	A Detailed 3d Finite Element Method for Real-Time Calculation of Floating Wind Turbine Structural Dynamics	Structural Design-2
Georges	Nicolas	167883	Development and Calibration of a Structural Digital Twin for Floating Offshore Wind	Digital
Germain	Nicolas	158988	Coupled-System Eigenfrequency Analysis in Design of Floating Offshore Wind Turbine	Structural Design-1
Godineau	Victor	172753	Vimflo: Advancing In-Situ Maintenance for Floating Offshore Wind Supported by Basin Test	Project & Maintenance
Gomez Coronel	Micaela	164952	Parametric Modelling and Robotic Trajectory Generation for Inspection of Welded Tubular Joints	Construction & Industrialization
Gudendorff	Gauthier	165407	Calculation of the Local Mechanical Strain and Stress in Dynamic Power Cable With Two Different Approaches Focusing on Metallic Screen	Cable
Guy	Nicolas	164947	Floating Offshore Wind Turbines Digital Twin Calibration From Operational Data Through Operational Modal Analysis and Optimization	Digital
Hansen	Eric	163711	Eco-Friendly and Cost Effective Solution for Ballasting Floating Offshore Wind Turbines	Metocean & Environment
Hasan	Syed	167635	Mooring Optimisation for Japanese FOW Conditions, Including Typhoon Loading and Site Variability	Mooring & Cable
Hsu	Wei-Hung	164907	Development of a Numerical Validation Method for the Seismic Performance of Wind Turbine Nacelles	Turbine Modeling & Technology
Huang	Bai-Yi	164905	A Novel Seismic Test on a Wind Turbine Nacelle: The Preliminary Findings	Turbine Modeling & Technology
Hugel	Vincent	167955	A Review of the MIR Erasmus Mundus Master's Program After 4 Years of Activity	Turbine Modeling & Technology
Hussein	Karim Raed	172620	Structural Analysis of the Volturnus-S Reference Wind Turbine Platform: A Case Study of Fully Coupled vs. Sequentially Coupled Analyses	Structural Design-3
Islam	Md Touhidul	165135	On the Mooring Loads of a Novel, Light-Weight Semi-Submersible FOWT Platform	Mooring
Jagite	George	163472	Challenges and Recent Developments in Structural Health Monitoring in the Transition From Oil and Gas to Floating Wind Assets	Structural Design-3
Jean	Philippe	172337	A Structural Integrity Digital Twin for the Kincardine Floating Wind Farm	Digital

Last Name	First Name	Submission Code	Submission Title	Track/Session
Karch	Michael	168845	Application of the Global Influence Superposition Method for High-Speed Structural Assessment of Floating Wind Turbines	Structural Design-2
Khouri	Fabien	164349	Technical Standard for Synthetic Fiber Ropes for Floating Wind Applications	Mooring & Cable
Kim	Taeyun	172607	Environmental Considerations Following the Enactment of the Special Act on Offshore Wind Power	Project & Maintenance
Koop	Arjen	172587	Development of Modular Large Scale Wind Generation System for Next-Generation Floating Offshore Wind Turbines, Floating Solar Energy Farms and Floating Offshore Infrastructure	Model Testing-2
Lande-Sudall	David	165248	Low-Frequency Extreme Response Waves: An Experimental Verification for Catenary-Moored Floating Offshore Wind Turbines	Model Testing-1
Le Pellec	Romane	163987	A Spectral Approach for Fatigue Damage Monitoring of Floating Offshore Wind Substructure Under Broad Banded Stress Responses	Structural Design-1
Leahy	Paul	165701	Hyfloat1: Semi-Submersible Platform Design Integrating Wind Generation, Electrolysis and Hydrogen Storage	Hybrid System & Substation
Leckler	Fabien	164937	Joint Estimation of Extreme Wind and Wave Statistics Under Tropical Cyclones for the Design of Offshore Wind Turbines	Metocean & Environment
Leen	Sean	164262	Aerodynamic Code-To-Code Comparison via IEA 22 MW Reference Turbine	Turbine Modeling & Technology
Leen	Sean	164536	Multiaxial Fatigue Initiation-Propagation Modelling With Microstructure Effects for Welded Monopile Offshore Support Structures	Structural Design-1
Luxcey	Neil	164789	Breaking Wave-Induced Slamming Load From Underlying Linear Properties	Hydrodynamic and Coupled Analyses-1
Manolas	Dimitrios	164603	Design and Assessment of Hybrid-Catenary Mooring Systems Using Steel Wire and Polyester Ropes for a 10MW Semi-Submersible and Spar-Buoy Wind Turbine	Mooring
Marzetti	Sebastian	164941	A New Acoustic Monitoring and Source Positioning System for Wind Farms	Metocean & Environment
Marzetti	Sebastian	164956	A New Underwater Acoustic Monitoring and Source Positioning System for Offshore Wind Farms	Metocean & Environment
Mas Soler	Jordi	165270	Evaluation of Reduced Order Models for an Initial Assessment of Floating Wind Turbine Dynamics	Hydrodynamic and Coupled Analyses-1
Mouton	Luc	172823	Bridging Concrete Floater Design Gap for Europe's Next-Generation Wind Farms	Structural Design-3
M'zoughi	Fares	172650	Comparative Frequency Domain Hydrodynamic Analysis Study of Hybrid Owc-Floating Offshore Wind Turbine Platform	Hybrid System & Substation
Nassor	Alice	165418	Floating Offshore Wind Farm Design Optimization, Including Mooring Line Orientations and Fatigue Design	Mooring
Nishimura	Shunsuke	165399	A Parametric Dimensional and Structural Iteration Study for the Floating Wind Turbine Support Structures	Construction & Industrialization
O'Shea	Michael	172616	Modelling the Structural Response of a Wave Slamming Event on a Monopile	Structural Design-3
Passano	Elizabeth	159008	Motion Induced Vibration: Time-Domain Analysis Validated Against Experimental Results	Cable
Pélé	Julien	164940	Project Success and Competitive Substructures Through Simultaneously Efficient and Accurate FOWT Fatigue Direct Computation	Structural Design-1
Pelerin	Jean-Luc	163754	From Synthetic Fiber Rope Testing to Mooring Design of Floating Offshore Turbines	Construction & Industrialization

Last Name	First Name	Submission Code	Submission Title	Track/Session
Peña Lasso	Juan	167872	Insights From the Demosath Project: Operational Performance and Lessons After Two Years of Operation	Project & Maintenance
Pergler	Paul	167648	FOWT Coupled Model and Comparison With In-Situ Measurements	Hydrodynamic and Coupled Analyses-2
Portas	Aurélie	163992	Spatial and Temporal Variability of Biofouling on Offshore Wind Turbines and Connecting Network: Implications for Structural Design and Maintenance	Biofouling
Puech	Simon	167650	Hardware Implementation of Floating Offshore Wind Turbine Control Software	Turbine Modeling & Technology
Roddier	Dominique	165417	Autonomous Floating Measurement Platform OCG-DATA	Project & Maintenance
Roulet	Mélanie	165410	Pre-Conceptual Design of a Floating Offshore Hydrogen Substation	Hybrid System & Substation
Rousse	Benjamin	165415	Hydrodynamic Load Distribution on Semi-Submersible Floating Offshore Wind Turbines Heave Plates: Experimental and CFD Investigations	Model Testing-1
Rousse	Benjamin	165424	On the Development of Software-In-The-Loop Method to Test Floating Offshore Wind Turbine Concepts in the 'South France - Ocean Basin'	Model Testing-1
Saunier	Claire	164499	Dynamic Response of FOWT Power Cables in Shallow Water	Model Testing-1
Schoefs	Franck	164459	Remote Monitoring of the Growth of Biofouling on Dynamic Electrical Cables and Mooring Lines of Floating Wind Turbine	Biofouling
Schoefs	Franck	165242	Review of Soft Fouling Impact on Floating Offshore Wind Turbines: Research Gaps in Long Algae Morphological and Mechanical Characteristics	Biofouling
Schoefs	Franck	165256	Added Mass and Drag Coefficients of Biofouled Mooring Chains in Waves	Biofouling
Serván-Camas	Borja	165235	Fully Coupled Aero-Hydro-Structural Analysis of Floating Wind Platforms	Hydrodynamic and Coupled Analyses-1
Shadman	Milad	172754	Offshore Wind-Powered Hydrogen Production: An Integrated Model for Technical and Economic Feasibility Assessment	Hybrid System & Substation
Sørensen	John D.	165440	A New Data-Driven Method for Structural Reliability-Based Lifetime Extension of Offshore Wind Support Structures	Structural Design-2
Tanne	Samuel	163188	Certification of Dynamic Subsea Power Cable	Mooring & Cable
Thibaux	Philippe	172749	Improved Fatigue Capacity of Tubular Connections Welded by Robots – Results From the Jaco Research Joint Industry Project	Model Testing-2
Thies	Philipp R.	163801	Exploring Novel Configuration Designs Alternatives for Lazy Wave Submarine Power Cables	Cable
Thomas	Arya	164957	Parametric Investigation on Taut Mooring System of a 5MW SPAR FOWT for Deep Waters Under Normal and Freak Wave-Wind Conditions	Mooring
Tomaselli	Pietro D.	164342	Application of a Digital Twin Framework for Response of Floating Offshore Wind Turbine Foundations to Laboratory Mooring Failures	Digital
Tosdevin	Tom	172561	On the Application of Short Design Events to a Spar Type Floating Wind Turbine	Hydrodynamic and Coupled Analyses-2
Touzon	Imanol	164818	Efficient Structural Assessment Approaches for the Design of Floating Offshore Wind Turbine Substructures	Hydrodynamic and Coupled Analyses-1
Turkarslan	Elif	172613	Hydrodynamic Evaluation of an Innovative Floating Platform for Offshore Wind: A Comparative Physical Model Study	Model Testing-2

Last Name	First Name	Submission Code	Submission Title	Track/Session
Weller	Sam D.	163869	Progress in Predicting Mooring Rope Responses	Mooring
Yi	Young Jae	172697	A Geospatial Database and Public Consulting System for Offshore Wind Farm Site Selection, South Korea	Project & Maintenance
Zhao	Lige	172676	Predicting Breaking Wave Loads for Offshore Wind Farm Sites	Hydrodynamic and Coupled Analyses-2

Presentations Table

Tuesday 28th October, Faculty of Law		
Room Bailleux	**Room Ortolan**	**Room Jean Claude Escarras**
Mooring, Chair: Philipp Thies	**New & Innovative FOW Design, Chair: Milad Shadman**	**Hydrodynamic and Coupled Analyses-1, Chair: Paul Pergler**
163869 - Progress in Predicting Mooring Rope Responses	165099 - Development of a Coupled Model for Disruptive Floating VAWT Concept	163672 - Guidelines for Fowt Support Structure Design Assessment
164603 - Design and Assessment of Hybrid-Catenary Mooring Systems Using Steel Wire and Polyester Ropes for a 10MW Semi-Submersible and Spar-Buoy Wind Turbine	165119 - Characterization & Modelling of the Wake of a Disruptive Floating Vawt for Yield Assessment	164789 - Breaking Wave-Induced Slamming Load From Underlying Linear Properties
164957 - Parametric Investigation on Taut Mooring System of a 5mw Spar Fowt for Deep Waters Under Normal and Freak Wave-Wind Conditions	165295 - Structural Integrity of a Reinforced Concrete Semi-Submersible Platform for a 15 Mw Floating Offshore Wind Turbine	164818 - Efficient Structural Assessment Approaches for the Design of Floating Offshore Wind Turbine Substructures
165094 - Modelling of Nylon 6 Mooring Lines for Offshore Floating Wind Turbines	165465 - Bridging Design and Industrialization: A Concrete Floater Concept for Europe's Next-Generation Floating Wind Farms	165235 - Fully Coupled Aero-Hydro-Structural Analysis of Floating Wind Platforms
165135 - On the Mooring Loads of a Novel, Light-Weight Semi-Submersible Fowt Platform	172808 - An Improved Mass-Constructible Concrete Tension Leg Foundation Design	165270 - Evaluation of Reduced Order Models for an Initial Assessment of Floating Wind Turbine Dynamics
Cable, Chair: Antoine Felix-Henry	**Structural Design-1, Chair: Romain Pinguet**	**Model Testing-1, Chair: Arjen Koop**
159008 - Motion Induced Vibration: Time-Domain Analysis Validated Against Experimental Results	158988 - Coupled-System Eigenfrequency Analysis in Design of Floating Offshore Wind Turbine	164223 - Experimental Study on Vortex-Induced Motion of a Towed FOWT in Currents and Waves
163801 - Exploring Novel Configuration Design Alternatives for Lazy Wave Submarine Power Cables	163987 - A Spectral Approach for Fatigue Damage Monitoring of Floating Offshore Wind Substructure Under Broad Banded Stress Responses	164499 - Dynamic Response of Fowt Power Cables in Shallow Water
164626 - Subsea Smart Hubs for Floating Wind	164536 - Multiaxial Fatigue Initiation-Propagation Modelling With Microstructure Effects for Welded Monopile Offshore Support Structures	165248 - Low-Frequency Extreme Response Waves: An Experimental Verification for Catenary-Moored Floating Offshore Wind Turbines
165128 - Coupled Thermal Modelling for Dynamic Submarine Power Cable in Varying Sea Temperatures	164610 - Efficient Integrated Design Using Unified Finite-Element Substructure Equations Within a Global Floating Offshore Wind Turbine Simulation Model	165415 - Hydrodynamic Load Distribution on Semi-Submersible Floating Offshore Wind Turbines Heave Plates: Experimental and CFD Investigations
165407 - Calculation of the Local Mechanical Strain and Stress in Dynamic Power Cable With Two Different Approaches Focusing on Metallic Screen	164940 - Project Success and Competitive Substructures Through Simultaneously Efficient and Accurate Fowt Fatigue Direct Computation	
Mooring & Cable, Chair: Philipp Thies	**Structural Design-2, Chair: Marc Cahay**	**Turbine Modeling & Technology, Chair: Simon Puech**
164349 - Technical Standard for Synthetic Fiber Ropes for Floating Wind Applications	165255 - Comparison of a Semi-Submersible and Tension Leg Platform Fowts in Extreme Irish Atlantic Waters	164262 - Aerodynamic Code-to-Code Comparison via Iea 22 MW Reference Turbine
163188 - Certification of Dynamic Subsea Power Cable	165403 - A Detailed 3d Finite Element Method for Real-Time Calculation of Floating Wind Turbine Structural Dynamics	164905 - A Novel Seismic Test on a Wind Turbine Nacelle: The Preliminary Findings
167635 - Mooring Optimisation for Japanese Fow Conditions, Including Typhoon Loading and Site Variability	165440 - A New Data-Driven Method for Structural Reliability-Based Lifetime Extension of Offshore Wind Support Structures	164907 - Development of a Numerical Validation Method for the Seismic Performance of Wind Turbine Nacelles
165418 - Floating Offshore Wind Farm Design Optimization, Including Mooring Line Orientations and Fatigue Design	168845 - Application of the Global Influence Superposition Method for High-Speed Structural Assessment of Floating Wind Turbines	167650 - Hardware Implementation of Floating Offshore Wind Turbine Control Software
	164970 - Efficient Structural Analysis Method for Floating Wind Platforms Through Potential Theory and Neural Networks	167955 - Review of the Mundus Mir Master's Program After 4 Years of Activity
	172754 - Offshore Wind-Powered Hydrogen Production: An Integrated Model for Technical and Economic Feasibility Assessment	

Wednesday 29th October, Faculty of Law

Room Bailleux	Room Ortolan	Room Jean Claude Escarras
Project & Maintenance, Chair: Laure Cossalter	**Structural Design-3, Chair: Nicolas Germain**	**Hydrodynamic and Coupled Analyses-2, Chair: Neil Luxcey**
172607 - Environmental Considerations Following the Enactment of the Special Act on Offshore Wind Power 164493 - Willingness-to-Pay for Eco-Engineering Applied to Floating Wind Turbines: Insights From France and the United States 165417 - Autonomous Floating Measurement Platform OCG-DATA 167872 - Insights From the Demosath Project: Operational Performance and Lessons After Two Years of Operation 172697 - A Geospatial Database and Public Consulting System for Offshore Wind Farm Site Selection, South Korea 172753 - Vimflo: Advancing In-Situ Maintenance for Floating Offshore Wind Supported by Basin Test	165420 - Accelerating Integrated Loads Analysis for Offshore Wind Turbines With Efficient Reduction and Recovery 172616 - Modelling the Structural Response of a Wave Slamming Event on a Monopile 163472 - Challenges and Recent Developments in Structural Health Monitoring in the Transition From Oil and Gas to Floating Wind Assets 172620 - Structural Analysis of the Volturnus-S Reference Wind Turbine Platform: A Case Study of Fully Coupled vs. Sequentially Coupled Analyses 172792 - Dynamic One-Way Coupling of a Holistic Shell Model for Time-Domain Structural Assessment of Floating Wind Turbines 172823 - Bridging Concrete Floater Design Gap for Europe's Next-Generation Wind Farms	167648 - FOWT Coupled Model and Comparison With In-Situ Measurements 168525 - Mid-Fidelity and High-Fidelity Simulation of a Floating Wind Turbine in Irregular Sea States 172561 - On the Application of Short Design Events to a Spar Type Floating Wind Turbine 172584 - A Rational Multi-Body Approach for Distributing First-Order Hydrodynamic Loads on Flexible Models of Floating Wind Turbines in Coupled Simulations 172610 - Hydroelastic Response and Modelling of a Flexible Spar: From Rigid to Elastic Body With Numerical Validation. 172676 - Predicting Breaking Wave Loads for Offshore Wind Farm Sites
Construction & Industrialization, Chair: Thomas Choisnet	**Metocean & Environment, Chair: Arjen Koop**	**Hybrid System & Substation, Chair: Marc Cahay**
163754 - From Synthetic Fiber Rope Testing to Mooring Design of Floating Offshore Turbines 164922 - A Radical Departure From Traditional Welding 164952 - Parametric Modelling and Robotic Trajectory Generation for Inspection of Welded Tubular Joints 165243 - Experimental Assessment of an Innovative Watertight Membrane for Chloride Ingress Prevention in Floating Offshore Wind Concrete Foundations 165399 - A Parametric Dimensional and Structural Iteration Study for the Floating Wind Turbine Support Structures 172726 - Innovative Solutions for Floating Offshore Wind	163711 - Eco-Friendly and Cost Effective Solution for Ballasting Floating Offshore Wind Turbines 164937 - Joint Estimation of Extreme Wind and Wave Statistics Under Tropical Cyclones for the Design of Offshore Wind Turbines 164941 - A New Acoustic Monitoring and Source Positioning System for Wind Farms 164956 - A New Underwater Acoustic Monitoring and Source Positioning System for Offshore Wind Farms 165144 - Transfer Learning for Cetacean Monitoring in the Context of Mediterranean Offshore Windfarms 165268 - The Critical Role of Metocean Measurements in Offshore Wind Farm Development	165304 - Towards Reliability Risk Analysis of Offshore Wind Farm Substations for Insurance Applications 165410 - Pre-Conceptual Design of a Floating Offshore Hydrogen Substation 165701 - Hyfloat1: Semi-Submersible Platform Design Integrating Wind Generation, Electrolysis and Hydrogen Storage 167629 - Innovations in Power Module and Valve Design for Offshore Applications of Vsc-Hvdc 172650 - Comparative Frequency Domain Hydrodynamic Analysis Study of Hybrid Owc-Floating Offshore Wind Turbine Platform
Digital, Chair: Nicolas Guy	**Biofouling, Chair: Valentin Gies**	**Model Testing-2, Chair: Benjamin Bailly**
164342 - Application of a Digital Twin Framework for Response of Floating Offshore Wind Turbine Foundations to Laboratory Mooring Failures 164947 - Floating Offshore Wind Turbines Digital Twin Calibration From Operational Data Through Operational Modal Analysis and Optimization 165461 - A Digital Twin Tracking Sensor Data in Real-Time on a Floating Offshore Wind Turbine 167883 - Development and Calibration of a Structural Digital Twin for Floating Offshore Wind 172337 - A Structural Integrity Digital Twin for the Kincardine Floating Wind Farm	163992 - Spatial and Temporal Variability of Biofouling on Offshore Wind Turbines and Connecting Network: Implications for Structural Design and Maintenance 164459 - Remote Monitoring of the Growth of Biofouling on Dynamic Electrical Cables and Mooring Lines of Floating Wind Turbine 165242 - Review of Soft Fouling Impact on Floating Offshore Wind Turbines: Research Gaps in Long Algae Morphological and Mechanical Characteristics 165256 - Added Mass and Drag Coefficients of Biofouled Mooring Chains in Waves 172668 - Experimental Investigation of Wave-Induced Forces on a Pile With Living Marine Growth 172669 - Hydrodynamic Effect of Soft Marine Growth on Offshore Structures	172587 - Development of Modular Large Scale Wind Generation System for Next-Generation Floating Offshore Wind Turbines, Floating Solar Energy Farms and Floating Offshore Infrastructure 172613 - Hydrodynamic Evaluation of an Innovative Floating Platform for Offshore Wind: A Comparative Physical Model Study 172749 - Improved Fatigue Capacity of Tubular Connections Welded by Robots – Results From the Jaco Research Joint Industry Project 165424 - On the Development and Validation of the Software-in-the-Loop (Sil) Method for Testing Floating Offshore Wind Turbine Concepts in the 'South France - Ocean Basin'

Sessions Chair

Tuesday, 28th of October	Wednesday, 29th of October
Mooring Session Chair: Philipp R. Thies Time: 11:00-13:00	**Project & Maintenance** Session Chair: Laure Cossalter Time: 10:30-12:30
New & Innovative FOW Design Session Chair: Milad Shadman Time: 11:00-13:00	**Structural Design-3** Session Chair: Nicolas Germain Time: 10:30-12:30
Hydrodynamic and Coupled Analyses-1 Session Chair: Paul Pergler Time: 11:00-13:00	**Hydrodynamic and Coupled Analyses-2** Session Chair: Neil Luxcey Time: 10:30-12:30
Cable Session Chair: Antoine Felix-Henry Time: 14:00-15:45	**Construction & Industrialization:** Session Chair: Thomas Choisnet Time: 13:30-15:30
Structural Design-1 Session Chair: Romain Pinguet Time: 14:00-15:45	**Metocean & Environment** Session Chair: Arjen Koop Time: 13:30-15:30
Model Testing-1 Session Chair: Arjen Koop, Benjamin Bailly Time: 14:00-15:45	**Hybrid System & Substation** Session Chair: Marc Cahay, Mélanie Roulet Time: 13:30-15:30
Mooring & Cable Session Chair: Philipp R. Thies Time: 16:15-18:00	**Digital** Session Chair: Nicolas Guy Time: 16:00-18:00
Structural Design-2 Session Chair: Marc Cahay Time: 16:15-18:00	**Biofouling** Session Chair: Valentin Gies, Christian Windt Time: 16:00-18:00
Turbine Modeling & Technology Session Chair: Simon Puech Time: 16:15-18:00	**Model Testing-2** Session Chair: Benjamin Bailly Time: 16:00-18:00

Sponsors

TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas, biogas and low-carbon hydrogen, renewables, and electricity. Our more than 100,000 employees are committed to provide as many people as possible with energy that is more reliable, more affordable, and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects, and its operations.

Contact Us For questions, subscriptions, or support, reach out to: contact@totalenergies.fr.

Ocergy

Ocergy's mission is to develop Sustainable Offshore Solutions that contribute to solving climate change by reducing our carbon footprint while enabling the harvesting of renewable energies and protecting biodiversity.

Ocergy is a technology developer in the floating offshore wind space. The team is spread over the US and Europe, with a strong presence in California and the South of France and works on projects worldwide.

The company was founded in 2019. It currently has over 30 staff members and is expected to continue its growth over the next few years.

Our team shares a common vision; we strive to create value by:

- achieving industry recognition in successful project execution
- developing sustainable offshore technologies
- bringing renewable resources into the global energy mix
- adopting green principles in company's activities

Our success will be the success of a colossal new sustainable industry and will open an era of responsible and renewable development of the earth ocean resources.

Eiffage Metal

Offshore Wind Specialist

Eiffage Métal brings over 20 years of unmatched experience in offshore wind, with more than 3,000 foundations completed or in production, and 30 high-voltage substations delivered across Europe.

A one-stop industrial contractor, Eiffage Métal delivers end-to-end solutions—from the design and fabrication of steel components to turnkey delivery of complex assemblies. Their expertise spans:

- Onshore wind turbine masts
- Offshore foundations including monopile with transition piece, jackets, tripods, and floaters
- Offshore high-voltage substations (foundation plus transformer platform)
- Tidal turbine foundations

Supported by its subsidiaries—Smulders (Belgium), a market leader in offshore steel components, and Eiffage Métal Iberica (Spain), a key onshore wind turbine mast builder—Eiffage Métal benefits from wide-ranging European production capabilities. Their industrial capacity ensures unmatched output:

- 1 transition piece foundation per day (with monopile)
- 1 jacket foundation per week
- 3 complete electrical substations per year

Eiffage Métal is a frontrunner in both bottom-fixed and floating offshore wind technologies. Their floating wind expertise facilitates deployment in deeper waters and farther from shore.

Ekwil

Ekwil is a 50/50 joint venture between Technip Energies and SBM Offshore. Bringing together the industry-leading expertise and experience of two energy transition leaders, Ekwil is a pure player in floating offshore wind. Headquarters in Paris, Ekwil operates with a core team of 40 specialists who bring a wealth of experience in Engineering, Procurement, Construction, and Installation (EPCI).

Ekwil is committed to delivering smart, flexible, and competitive solutions for the floating offshore wind (FOW) sector. Its approach includes the development of two primary technology families: the Float4Wind Tension Leg Platforms, which offer unique motion performance that closely mimics fixed location parameters, and the INO semi-submersible platforms, which provide a solution capable of operating at any site while ensuring secure and efficient support for any turbine size. These technologies are designed to maximize compatibility with existing and future turbine models, allowing for flexibility across diverse ocean environments. By leveraging both standardized components and site-specific adaptability, Ekwil aims to streamline project execution and reduce costs across the lifecycle of floating wind projects.

With a clear mission to contribute to global energy transition goals, Ekwil seeks to make FOW a viable, large-scale contributor to the renewable energy mix. As part of this mission, Ekwil emphasizes delivery excellence, a collaborative approach with its parent companies, and a commitment to minimizing the environmental footprint of its operations.
Ekwil's vision is not only to lead in technology but to set a new standard for reliable, cost-effective renewable energy solutions, making offshore wind energy a key resource in the quest for net zero emissions.

Nortek

Nortek is a leading innovator in underwater Doppler technology, delivering high-performance instruments that measure and monitor water movement with unmatched accuracy. As part of the global Nortek Group, the company specializes in developing Acoustic Doppler Current Profilers (ADCPs) and Doppler Velocity Logs (DVLs), which are essential tools for oceanographers, marine engineers, and subsea navigation experts.

Advanced Oceanographic Solutions Nortek's ADCPs are engineered to capture detailed data on ocean currents, waves, and turbulence, enabling researchers and coastal planners to better understand marine dynamics. These instruments play a vital role in offshore infrastructure safety, site selection for renewable energy installations, and coastal erosion mitigation. By providing real-time insights into underwater conditions, Nortek empowers users to make informed decisions that enhance safety and sustainability.

Reliable Navigation for Subsea Vehicles In environments where GPS signals are unavailable, Nortek's DVLs offer precise navigation capabilities for remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs), and surface vessels. These systems are critical for operations such as cable-laying for offshore wind farms, subsea inspections, and scientific exploration. Nortek's technology ensures that vehicles maintain accurate positioning even in the most challenging underwater environments.

Nortek France also offers services for all aspects of physical measurements in the marine environment, anywhere in the world. This can range from a simple sensor rental to the implementation of a multi-month field measurement campaign on the other side of the world, including the supply of complex measurement systems at sea and the delivery of real-time data to the client's office. Equipped with a wide range of high-quality oceanographic instruments, in-house developed supports (buoys and tripods), an integration and calibration workshop, and the support of international and regional logistics partners, our team is capable of operating anywhere in the world for any measurement service.

Contact Us For inquiries, technical support, or partnership opportunities, please reach out to: info@nortekgroup.com.

Bureau Veritas

Bureau Veritas France: Building Trust Through Expertise

Bureau Veritas stands at the forefront of the Testing, Inspection, and Certification (TIC) industry, delivering world-class services that help businesses meet quality, safety, environmental, and social responsibility standards. The group employs over 82,000 professionals globally — including 8,000 in France — and is committed to shaping a world of trust through technical excellence and innovation.

Shaping a World of Trust

With a legacy rooted in integrity and precision, Bureau Veritas offers a comprehensive portfolio of services tailored to diverse sectors such as marine & offshore, energy, agriculture, automotive, construction, manufacturing and public services. Their expertise spans across certification, audits, cybersecurity, laboratory testing, environmental consulting, and regulatory compliance. Whether it's ensuring the safety of infrastructure, verifying product quality, or supporting sustainable development goals, Bureau Veritas empowers clients to navigate complex challenges with confidence.

The company's strategic approach is anchored in its LEAP | 28 initiative, driving robust organic growth and operational excellence. Bureau Veritas has also made significant strides in digital transformation, offering tools like BV Link — a digital interface that streamlines compliance data management—and leveraging data inspection to enhance client performance.

As part of its commitment to corporate social responsibility, Bureau Veritas integrates sustainability into every facet of its operations. From promoting workplace safety to advancing environmental stewardship, the company aligns its mission with the evolving expectations of society and industry.

Recently inducted into the prestigious CAC 40 index, Bureau Veritas continues to expand its global footprint while remaining deeply rooted in local expertise.

For more information or to get in touch, please contact: contact@bureauveritas.com

Partners

EVOLEN

EVOLEN is a leading French trade association committed to shaping the future of energy by supporting companies and professionals in developing sustainable, reliable, and economically viable solutions. With nearly 300 corporate and individual members, EVOLEN serves as a dynamic platform for collaboration, innovation, and international outreach in the energy sector. Its mission is to unite stakeholders across France and abroad, acting as a facilitator and public voice for the industry as it transitions toward carbon neutrality by 2050.

The association's strategic focus spans four key areas: energy transition, operational efficiency, business development, and talent & innovation. Through its 20 specialized committees, EVOLEN drives thought leadership and guides its members in tackling major challenges such as decarbonization, renewable energy integration, and digital transformation. These committees serve as incubators for ideas, policy recommendations, and technical expertise, ensuring that members stay ahead of industry trends and regulatory shifts.

EVOLEN also plays a vital role in promoting French energy expertise on the global stage. It organizes international missions, trade shows, and conferences—such as the Angola–French Energy Decarbonation Days and GASTECH 2025—to foster cross-border partnerships and showcase innovative technologies. Its programs in innovation, talent development, and international cooperation empower members to scale their impact and contribute to a more resilient energy ecosystem.

The association's commitment to environmental responsibility is reflected in its support for low-carbon technologies and its emphasis on skill-building for the next generation of energy professionals. By bridging the gap between industry, academia, and public institutions, EVOLEN ensures that the energy transition is both inclusive and forward-looking.

Whether you're a startup, a multinational, or an individual expert, EVOLEN offers a collaborative environment where ideas flourish and solutions take shape.
Contact: contact@evolen.org.

ASME

ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods. Founded in 1880 by a small group of leading industrialists, ASME has grown through the decades to include more than 140,000 members in 151 countries.

For more than 100 years, ASME has successfully enhanced performance and safety worldwide through its renowned codes and standards, conformity assessment programs, training courses, and journals.

ASME also produces nearly 40 international conferences. These industry-leading events feature advanced research and technical content spanning a range of industries impacted by mechanical engineering, including energy production, energy sources, advanced manufacturing, and engineering sciences.

Toulon University

Located in the heart of the French Riviera, the University of Toulon (UTLN) has been a cornerstone of academic excellence since its founding in 1968. Offering over 100 degree programs spanning science, technology, arts, humanities, and law, UTLN places strong emphasis on interdisciplinary research and international cooperation. Its three campuses—La Garde, Toulon city center, and Draguignan—provide modern facilities including five libraries, multimedia labs, and vibrant student hubs. UTLN is home to five major research institutes, with notable innovation in marine science, cybersecurity, and entrepreneurship, backed by national and European support. With partnerships across 150+ institutions worldwide, it welcomes students from around the globe and offers multilingual resources, academic exchanges, and summer programs. Dedicated to preparing future leaders and fostering cultural diversity, UTLN is a gateway to global opportunity.

The university also boasts a dynamic cultural scene, hosting annual events such as the Robocup Middle Size League . Students benefit from a wide range of extracurricular activities, including sports clubs, debate societies, and volunteer programs, fostering a well-rounded educational experience. UTLN's commitment to sustainability is evident through its green campus initiatives, promoting eco-friendly practices and renewable energy projects. With a strong alumni network and career services, graduates are well-equipped to excel in competitive job markets worldwide. Whether pursuing academic excellence or personal growth, UTLN offers an inspiring environment to thrive.

Contact: communication@univ-tln.fr

Pôle Mer Méditerranée

Pôle Mer Méditerranée is a world-class maritime innovation cluster based in southern France, dedicated to advancing sustainable development across the marine and coastal economy. Established in 2005 and recognized by the French government as a global competitiveness hub, it unites over 500 members—including SMEs, large corporations, research institutions, and public agencies—across the Provence-Alpes-Côte d'Azur, Occitanie, and Corsica regions. The cluster drives collaborative R&D in six strategic domains: maritime defense and safety, naval and nautical engineering, marine energy and mineral resources, biological marine resources, coastal environment and resilience, and port logistics. Two cross-cutting themes—digital transformation and ecological transition—further enhance its innovation strategy.

Pôle Mer Méditerranée supports its members through project structuring, expert guidance, and access to national and European funding. Its rigorous project labeling process ensures excellence and boosts credibility with investors and public funders. Over 75% of labeled projects receive co-financing, reflecting the cluster's strong track record in delivering impactful solutions. The organization also hosts technical workshops, international missions, and innovation forums to foster knowledge exchange and accelerate market access.

With a vision rooted in decarbonization, sovereignty, and economic growth, Pôle Mer Méditerranée plays a pivotal role in shaping the future of the blue economy. It empowers maritime stakeholders to tackle global challenges—from climate change and biodiversity loss to energy transition and digitalization—while promoting job creation and regional competitiveness. Through its dynamic ecosystem, the cluster positions France as a leader in ocean innovation and sustainability.

Contact: contact@polemermediterranee.com.

France Energies Marines

France Energies Marines is a research and innovation center for offshore wind energy with a significant impact on the industry and international influence. Supported by the French government, the Institute is breaking down the barriers faced by the offshore wind sector, thanks to a multidisciplinary team of more than 90 employees, a network of international experts, and unique testing facilities. Its activities are structured around four complementary departments: Wind and Ocean Dynamics, Systems & Performance, Biodiversity & Monitoring, and Ecosystems & Society.

Notes

Thank you for attending!

Visit our website for information on IOWTC in coming years!!!

https://event.asme.org/IOWTC