



IOWTC 2025

TOULON FRANCE

6TH INTERNATIONAL OFFSHORE WIND TECHNICAL CONFERENCE

October 27-29, 2025

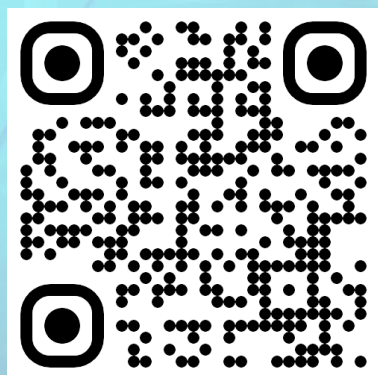
Program

Technical Sessions

&

Author Index

<https://event.asme.org/IOWTC>



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**UNIVERSITÉ DE
TOULON**

PÔLE MER
MÉDITERRANÉE

**FRANCE
ÉNERGIES
MARINES**

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Technical Sessions

Speakers' name 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 AM 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

Stylianios 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 AM 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 Pél   - 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 AM 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 Poirrette - 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 Filipo - 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 - Akseles

Sylvain Vallaghe - Akseles

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 Choynet - 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

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Chair: Christian Windt - TU Braunschweig

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Technical Presentation Only: IOWTC2025-163992

Aurélié Portas - France Energies Marines

Lucas Pinsiv - 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

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Technical Paper Publication: IOWTC2025-164459

Franck Schoefs - Nantes Université

Ziad Maksassi - Nantes Université

Benoît Parrein - Nantes Université

Ahmed Gueled - Nantes Université

Bertrand Garnier - Nantes Université

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Technical Paper Publication: IOWTC2025-165242

Nazila Emamdoost - Nantes Université

Franck Schoefs - Nantes Université

Krish Thiagarajan Sharman - University of Massachusetts, Amherst

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

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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'

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Benjamin Rousse - Océanide

Benjamin Bailly - Océanide

Thierry Rippol - Océanide

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Digital, Chair: Nicolas Guy 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	Biofouling, Chair: Valentin Gies 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	Model Testing-2, Chair: Benjamin Bailly 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

<u>Tuesday, 28th of October</u>	<u>Wednesday, 29th of October</u>
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 Choynet 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



Thank you for attending!

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