

ASME OMAE 2022

41st International Conference on Ocean, Offshore and Arctic Engineering

June 5–10, 2022 • Hamburg, Germany





EDITOR-IN-CHIEF: Lance Manuel, PhD
The University of Texas at Austin, USA

Journal of Offshore Mechanics and Arctic Engineering

OMAE 2022 Conference Attendees: Access and Download Articles of Interest FREE!

OMAE 2022 Conference attendees will have access to view and download articles **FREE** from the *Journal of Offshore Mechanics and Arctic Engineering* from **June 1, 2022 - September 30, 2022.**

It's Simple, Get Started!

Visit *Journal of Offshore Mechanics and Arctic Engineering* on The ASME Digital Collection (asmedigitalcollection.asme.org/offshoremechanics) and click on any article.

For queries or support, contact Sharon Giordano:

GiordanoS@asme.org

TABLE OF CONTENTS

4 Program at a Glance

- 4** Sunday, June 5
- 4** Monday, June 6
- 5** Tuesday, June 7
- 6** Wednesday, June 8
- 7** Thursday, June 9

8 Floor Plan

9 Welcome

10 Hamburg City Map

11 Award Winners

12 Attendee Information

15 Social Events

16 Sponsors

17 Exhibitors

20 Technical Program

21 Honoring Symposium

22 Plenary Sessions

Opening Ceremonies and Keynote Plenaries

Plenary: Climate Change Impacts on the Coasts and Offshore

Afternoon Lecture Series

23 Monday Concurrent Sessions

- 23** 13:30 – 15:00
- 28** 15:30 – 17:30

36 Tuesday Concurrent Sessions

- 36** 08:30 – 10:00
- 43** 10:30 – 12:00
- 50** 13:30 – 15:00
- 57** 15:30 – 17:30

65 Wednesday Concurrent Sessions

- 65** 11:00 – 12:30
- 71** 13:30 – 15:00
- 77** 15:30 – 17:30

85 Thursday Concurrent Sessions

- 85** 8:30 – 10:00
- 91** 10:30 – 12:00
- 96** 13:30 – 15:00
- 100** 15:30 – 17:30

105 Technical Tours

106 Short Course

107 Outreach for Engineers

109 Committees & Organizers

113 Past and Future Conferences

115 Author Index

151 Session Index



NAVIGATION TIPS: The titles above are linked to their respective pages. Hover over the title, then click to follow the link. Or scroll down to read through page by page. All pages have a “Back to Table of Contents” link at the bottom right, which will return you to this page.

Program at a Glance

Sunday, June 5

18:00 – 20:00

Hall G Foyer

Welcome Reception

Catch up with colleagues and make new connections at our first in-person OMAE event in three years. You can register for the conference and then join us for appetizers and drinks in the same room starting at 6 pm, so convenient!



Monday, June 6

08:30 – 10:00

Hall G

Opening Ceremonies and Keynote Presentations

10:00 – 10:30

Hall G Foyer

Refreshment Break

10:30 – 12:00

Hall G

Opening Ceremonies and Keynote Presentations (Continued)

12:00 – 13:30

Hall G Foyer

Opening Lunch

13:30 – 15:00

Concurrent Sessions

OFT	01-01-01	Offshore Platforms I
SSR	02-06-01	Reliability of Mooring and Riser Systems I
MT	03-01-01	Fracture Assessment and Control
PRS	04-01-02	Flexible Pipes and Umbilicals II
OSU	05-02-01	Aquaculture and Related Technology I
OE	06-02-01	Coastal Engineering I
OE	06-03-01	Fluid-structure, Multi-body and Wave-body Interaction I
C&V	08-04-01	FSI
ORE	09-01-01	Installation, Marine Operations and Maintenance I
ORE	09-02-01	Wave Environmental Modeling
OG	10-01-01	Seabed Properties and Processes
PT	11-02-01	Well Drilling Fluids and Hydraulics I
PT	11-10-01	Development of Unconventional Reservoirs I

15:00 – 15:30

Hall G Foyer

Refreshment Break

15:30 – 17:30

Concurrent Sessions

OFT	01-06-01	CFD Modeling Practice and Verification I
SSR	02-06-02	Reliability of Mooring and Riser Systems II
MT	03-02-01	Fatigue Performance and Testing
PRS	04-01-01	Flexible Pipes and Umbilicals I
OSU	05-05-01	Floating System for Renewable Energy I
OE	06-01-01	Computational Mechanics and Design Applications
OE	06-03-02	Fluid-structure, Multi-body and Wave-body Interaction II
PAT	07-01-01	Structures in Ice
C&V	08-06-01	VIV in Time-varying Flows
ORE	09-01-02	Installation, Marine Operations and Maintenance II
ORE	09-04-01	Hybrids and Floating Solar Energy
OG	10-01-02	Seabed Properties and Processes II
PT	11-02-02	Well Drilling Fluids and Hydraulics II
PT	11-10-02	Development of Unconventional Reservoirs II

17:40 – 18:30

Hall F

Afternoon Lecture

18:30 – 19:30

Hall G Foyer

Afternoon Drinks

PROGRAM AT A GLANCE

Tuesday, June 7

08:30 – 10:00

Concurrent Sessions

OFT	01-01-02	Offshore Platforms II
SSR	02-01-01	Abnormal Waves
SSR	02-10-01	Collision and Crashworthiness I
MT	03-03-01	Integrity Assessment and Life Extension
PRS	04-01-03	Flexible Pipes and Umbilicals III
OE	06-02-02	Coastal Engineering II
OE	06-04-01	Marine Engineering and Technology I
PAT	07-02-01	Arctic Sea Transportation
C&V	08-04-02	Ship Design
ORE	09-01-04	FWT Structural Dynamics I
ORE	09-02-02	Techno-economic Modeling of WEC
OG	10-02-01	Piles
PT	11-02-03	Well Drilling Fluids and Hydraulics III
PT	11-12-01	Sustainability and Green Transition in Petroleum Industry I
GFC	12-02-01	Extreme Waves and their Impact on Ships and Structures

10:00 – 10:30

Hall G Foyer

Refreshment Break

10:30 – 12:00

Concurrent Sessions

OFT	01-03-01	Hydrodynamics
SSR	02-01-02	Extreme Waves
SSR	02-10-02	Collision and Crashworthiness II
MT	03-04-01	Environmental Effect on Materials Performance
PRS	04-01-04	Flexible Pipes and Umbilicals IV
OE	06-04-02	Marine Engineering and Technology II
OE	06-05-01	Marine Hydrodynamics I
PAT	07-03-01	Vessels in Ice - Loads
C&V	08-04-04	Advanced Analytics
ORE	09-01-05	FWT Structural Dynamics II
ORE	09-02-03	WEC Performance Analysis
OG	10-04-01	Bucket, Gravity Foundations and Caissons
PT	11-05-01	Well Cementing Theory and Practice I
PT	11-12-02	Sustainability and Green Transition in Petroleum Industry II
GFC	12-03-01	Deterministic Wave and Motion Prediction

12:00 – 13:30

Hall G Foyer

Lunch

13:30 – 15:00

Concurrent Sessions

OFT	01-07-01	Wave Loading and Motions in Extreme Seas
SSR	02-01-03	Extreme Sea States
SSR	02-12-01	Structural Analysis and Optimization I
MT	03-05-01	Performance and Reliability of Non-metallics
PRS	04-01-05	Flexible Pipes and Umbilicals V
OE	06-03-03	Fluid-structure, Multi-body and Wave-body Interaction III
OE	06-05-02	Marine Hydrodynamics II
PAT	07-04-01	Vessels in Ice - Simulations
C&V	08-04-03	Offshore Wind
ORE	09-01-06	Wind Turbine Aerodynamics I
ORE	09-02-04	WEC Numerical Modeling
OG	10-03-01	Anchors and Pipelines I
PT	11-07-01	Permanent Well Abandonment
PT	11-10-03	Development of Unconventional Reservoirs III
GFC	12-01-01	Hydrodynamics, Seakeeping and Global Performance I

15:00 – 15:30

Hall G Foyer

Refreshment Break

15:30 – 17:30

Concurrent Sessions

OFT	01-02-01	Station Keeping I
SSR	02-02-01	Probabilistic and Spectral Wave Models
SSR	02-12-02	Structural Analysis and Optimization II
MT	03-06-01	Advances in Materials and Manufacturing Technology
PRS	04-02-01	Rigid Risers I
OE	06-03-04	Fluid-structure, Multi-body and Wave-body Interaction IV
OE	06-05-03	Marine Hydrodynamics III
PAT	07-05-01	Ice Model Tests
C&V	08-06-02	VIV of Flexible Risers and Cables
ORE	09-01-03	Installation, Marine Operations and Maintenance III
ORE	09-03-01	Current and Tidal Energy I
OG	10-03-02	Anchors and Pipelines II
PT	11-06-01	Integrity of Well Barriers
PT	11-10-04	Development of Unconventional Reservoirs IV
GFC	12-01-02	Hydrodynamics, Seakeeping and Global Performance II

17:40 – 18:30

Hall F

Afternoon Lecture

18:30 – 19:30

Hall G Foyer

Afternoon Drinks

Wednesday, June 8

08:30 – 10:30

Hall G

Plenary: Climate Change Impacts on the Coasts and Offshore

10:30 – 11:00

Hall G Foyer

Refreshment Break

11:00 – 12:30

Concurrent Sessions

OFT	01-09-01	Adapting/Mitigating Climate Change
SSR	02-07-01	Reliability of Renewable Energy Systems
SSR	02-11-01	Ultimate Strength I
PRS	04-02-02	Rigid Risers II
OSU	05-06-01	High Tide and Tsunamis
OE	06-05-04	Marine Hydrodynamics IV
OE	06-07-01	Metocean, Measurement and Data Interpretation I
OE	06-12-01	Ship Hydromechanics I
PAT	07-06-01	Numerical Ice Modeling
C&V	08-05-01	Free Surface Flows I
ORE	09-01-07	Wind Turbine Aerodynamics II
ORE	09-02-05	WEC Controls and PTO I
PT	11-01-01	Well Drilling Technology I
PT	11-08-01	Production Systems and Subsea Operations

12:30 – 13:30

Hall G Foyer

Lunch

13:30 – 15:00

Concurrent Sessions

OFT	01-05-01	FLNG Technology I
SSR	02-11-02	Ultimate Strength II
SSR	02-16-01	Data-driven Models for Marine Structures I
PRS	04-02-03	Rigid Risers III
OSU	05-05-02	Floating System for Renewable Energy II
OE	06-08-01	Model Tests
PAT	07-07-01	Marine Propulsion System Under Ice Impact
C&V	08-05-02	Free Surface Flows II
ORE	09-01-12	Experimental Methods
ORE	09-02-06	WEC Controls and PTO II
PT	11-05-02	Well Cementing Theory and Practice II
PT	11-13-01	Digitalization of Subsurface, Well Systems, Subsea Systems and Operations

15:00 – 15:30

Hall G Foyer

Refreshment Break

15:30 – 17:30

Concurrent Sessions

OFT	01-08-02	Digitalization, AI, Neural Networks, ML II
SSR	02-03-01	Probabilistic Response Models
SSR	02-16-02	Data-driven Models for Marine Structures II
PRS	04-03-01	Rigid Pipelines I
OSU	05-05-03	Floating System for Renewable Energy III
OE	06-07-02	Metocean, Measurement and Data Interpretation II
OE	06-12-02	Ship Hydromechanics II
OE	06-15-01	Unsteady Hydrodynamics, Vibrations, Acoustics and Propulsion
PAT	07-09-01	Scenario-Based Risk Management for Ice-Covered Waters: LRF- CEPOLAR Activities
C&V	08-03-01	Waves, Motions, Impact
C&V	08-07-01	Internal Flows and FIV I
ORE	09-01-10	FWT Hydrodynamics
ORE	09-05-01	Energy Storage and Hydrogen
PT	11-05-03	Well Cementing Theory and Practice III
PT	11-11-01	Advances in Carbon Capture Utilization and Storage

17:40 – 18:30

Hall F

Afternoon Lecture

19:00 – 24:00

Del Mar Beach Club

Conference Banquet

PROGRAM AT A GLANCE

Thursday, June 9

08:30 – 10:00

Concurrent Sessions

OFT	01-08-01	Digitalization, AI, Neural Networks, ML I
SSR	02-09-01	Extreme Loading and Responses I
SSR	02-13-01	Risk Analysis and Management
PRS	04-03-02	Rigid Pipelines II
OSU	05-02-02	Aquaculture and Related Technology II
OE	06-13-01	Towed and Undersea Cables and Pipes, Mooring, and Buoy Technology
OE	06-14-01	Underwater Vehicles and Design Technology I
OE	06-16-01	Wave Mechanics, Modeling and Wave Effects I
C&V	08-01-01	Waves and Loads
ORE	09-01-08	FWT Moorings and Arrays I
ORE	09-01-13	Novel and Hybrid Offshore Wind Concepts
PT	11-01-02	Well Drilling Technology II
PT	11-04-01	Data Science and Machine Learning Applications in Drilling I

10:00 – 10:30

Hall G Foyer

Refreshment Break

10:30 – 12:00

Concurrent Sessions

SSR	02-09-02	Extreme Loading and Responses II
SSR	02-14-01	Risk Based Maintenance
PRS	04-04-01	Flow Assurance and Subsea Equipment
OSU	05-04-01	Underwater Development and Technology
OE	06-11-01	Ocean Engineering Technology I
OE	06-14-02	Underwater Vehicles and Design Technology II
C&V	08-01-02	Propulsion, VIM, and CFD Spectra
ORE	09-01-09	FWT Moorings and Arrays II
ORE	09-03-02	Current and Tidal Energy II
PT	11-03-01	Well Control and Managed Pressure Drilling I
PT	11-04-02	Data Science and Machine Learning Applications in Drilling II

12:00 – 13:30

Hall G Foyer

Lunch

13:30 – 15:00

Concurrent Sessions

SSR	02-04-01	Fatigue and Fracture Reliability I
SSR	02-09-03	Extreme Loading and Responses III
OE	06-11-02	Ocean Engineering Technology II
OE	06-14-03	Underwater Vehicles and Design Technology III
OE	06-16-02	Wave Mechanics, Modeling and Wave Effects II
C&V	08-02-01	Maneuvering
ORE	09-01-14	Fatigue and Structural Analysis
PT	11-03-02	Well Control and Managed Pressure Drilling II
PT	11-04-03	Data Science and Machine Learning Applications in Drilling III

15:00 – 15:30

Hall G Foyer

Refreshment Break

15:30 – 17:30

Concurrent Sessions

SSR	02-04-02	Fatigue and Fracture Reliability II
SSR	02-05-01	Reliability of Marine Structures
OSU	05-03-01	Deepsea Mining and Ocean Resources
OE	06-11-03	Ocean Engineering Technology III
OE	06-16-03	Wave Mechanics, Modeling and Wave Effects III
C&V	08-07-02	Internal Flows and FIV II
ORE	09-01-11	Design and Optimization
PT	11-05-04	Well Cementing Theory and Practice IV

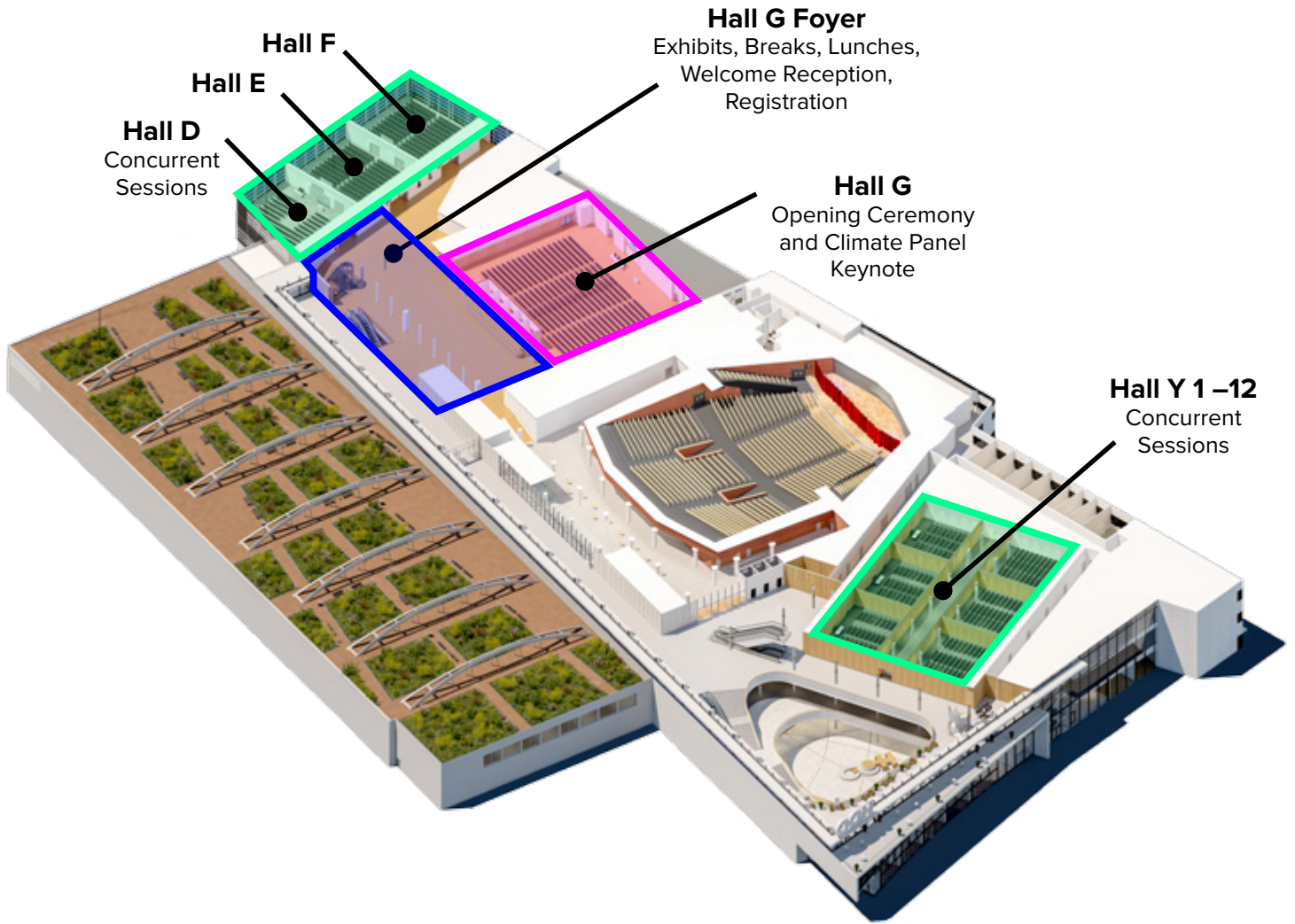
17:00 – 19:00




Hall F

Farewell Reception

Floor Plan

Congress Center Hamburg: 2nd Floor



-  Registration, Welcome Reception, Breaks, Lunches, Exhibits **Hall G Foyer**
-  Opening Ceremony and Climate Panel Keynote **Hall G**
-  Concurrent Sessions **Halls D, E, F and Y 1-12**

WELCOME LETTER



Sören Ehlers,
Conference Chair



Walter L. Kuehnlein,
Conference Co-Chair



Yiannis Constantinides,
Technical Program Chair

Welcome from the Conference Chairs and Technical Program Chair

Welcome to the 41st Ocean, Offshore and Arctic Engineering Conference (OMAE) in Hamburg, Germany, hosted by the OOA Division of ASME. OMAE combines Academia with Industry to adapt scientific achievements into practical applications for a smart, sustainable, and safe use of our oceans. We, the organizers, are very happy and thankful that after two online conferences, we are finally able to meet again in person in Hamburg. We would like to thank all the Symposium Coordinators, Topic and Session Organizers, Reviewers, Session Chairs, Student Volunteers, Sponsors and Exhibitors, Authors, and Conference Participants. Without you, this conference would not have been possible.

Our program this year has exceeded our expectations with many submissions. From the 1000 submitted abstracts, 710 technical papers and 50 presentations have been accepted for presentation at the conference. Apart from our 11 regular symposia, this year we are proud to honor an exceptional individual whose contributions to the fields of offshore

engineering and marine hydrodynamics are legendary. Professor Günther F. Claus has a long history of working theoretically and experimentally on complex problems in wave mechanics, transient wave structure interactions and offshore platform dynamics and operations. On Monday he will also give an afternoon plenary lecture.

We have an exciting social program organized for you including the Conference Banquet which will take place at a beach club on the river Elbe, directly opposite the shipyard and port. During your stay in Hamburg and in Germany, you can purchase a €9 ticket for the entire public transportation system, valid in all German cities for the month of June.

We wish you all a very productive conference, and a most enjoyable stay in the Marine City of Hamburg.

Welcome to the 41st OMAE!

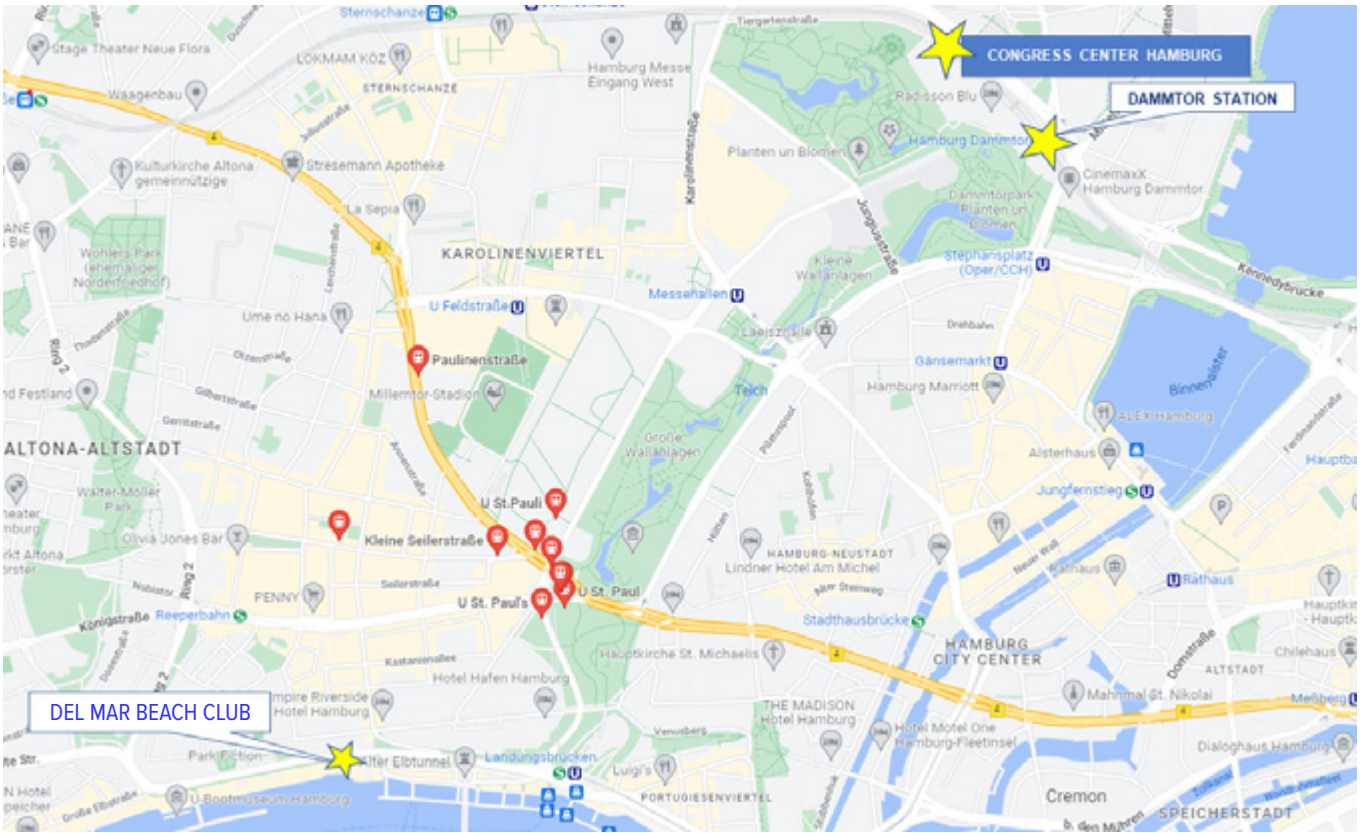
—Sören Ehlers, Conference and Division Chair

—Walter Kuehnlein, Conference Co-chair

—Yiannis Constantinides, Technical Program Chair



Hamburg City Map



CONGRESS CENTER HAMBURG

Congressplatz 1, 20355 Hamburg, Germany

DEL MAR BEACH CLUB

St. Pauli-Landungsbrücken 20359 Hamburg, Germany



Award Winners

THE SUBRATA CHAKRABARTI YOUNG PROFESSIONAL AWARD

Ragini Gogoi, for his outstanding presentation and paper OMAE2021-61663
"Uplift Capacity of Suction Caissons in Sand for General Conditions of Drainage" during OMAE2021.

OMAE 2021 BEST PAPER AWARDS

Offshore Technology Symposium, OMAE2021-66612
Numerical Investigation on Vortex Induced Motion of a Tension Leg Platform with Circular Columns
by Pengfei Zhi and Xinshu Zhang

Structures, Safety and Reliability Symposium, OMAE2021-61988
Bivariate Regional Frequency Analysis of Sea State Conditions
by Erik Vanem

Pipelines, Risers, and Subsea Systems Symposium, OMAE2021-63450
Engineering Critical Assessment of Triple-Point Flaws in Mechanically Lined Pipes
by Aurelien Pepin, Tomasz Tkaczyk and Riadh Abderrazak

Ocean Space Utilization Symposium, OMAE2021-61827
Depth Control Modelling and Analysis of a Subsea Shuttle Tanker
by Yucong Ma, Dan Sui, Yihan Xing, Muk Chen Ong and Tor Henning Hemmingsen

Polar and Arctic Sciences and Technology, OMAE2021-62818
Numerical Modelling of Ice Rubble Interactions Using Discrete Element Method
by Lei Liu, Eleanor Bailey, Rocky Taylor and Tony King

CFD & FSI Symposium, OMAE2021-62185
Hydrodynamic Coupling of Viscous and Non-Viscous Numerical Wave Solutions within the Open-Source Hydrodynamics Framework REEF3D
by Weizhi Wang, Csaba Pakozdi, Arun Kamath, Tobias Martin and Hans Bihs

Petroleum Technology Symposium, OMAE2021-62699
Helical Flow of Drilling Mud with Cuttings in a Vertical Well
by Yaroslav Ignatenko, Andrey Gavrilov and Oleg Bocharov



Attendee Information

CONFERENCE VENUE

OMAE 2022 will be held at the [Congress Center Hamburg \(CCH\)](#) located at Congressplatz 1, 20355 Hamburg, Germany.

ONSITE REGISTRATION

Pick up your name badge at the Registration Desk located in Hall G Foyer of the CCH. The Registration Desk will be open during the following times:

Sunday, June 5th	12:00 – 20:00
Monday, June 6th	07:30 – 17:30
Tuesday, June 7th	08:00 – 17:30
Wednesday, June 8th	08:00 – 17:30
Thursday, June 9th	08:00 – 17:30

NAME BADGES

In addition to being a means of identification to colleagues, you are required to wear your name badge for admission to conference sessions and events. Room monitors will check name badges before allowing anyone into the session or event. Replacement badges are available at the Registration Desk at a cost of €20 per badge. Attendees who have paid the author/member, non-member or student registration fee are entitled to admission to all conference sessions, daily refreshment breaks, the Welcome Reception, the Exhibition, the four Lunches, the Conference Banquet and the Farewell Reception. These attendees will also receive a conference bag and a program.

Daily Registration: Attendees who have paid the one-day registration fee qualify for the badge representing the day they have selected to attend. Attendees wearing this badge are entitled to the following on their specified day: admission to conference sessions, refreshment breaks, the Exhibition and food and beverage service. The Conference Banquet is excluded from the daily pass.

Accompanying Person: Guests who have registered as an accompanying person qualify for this badge and are entitled to admission to the Welcome Reception, the Conference Banquet and a special sightseeing tour.

Exhibitors: Exhibit staff have access to the Exhibition and may participate in the Welcome Reception, the four Lunches, the Conference Banquet, and the Farewell Reception. One representative from each exhibiting company is permitted to attend conference sessions.

Technical Tours and Social Events: To participate in a technical tour on Friday you must have registered in advance. Pre-purchased guest tickets for social events are provided with your name badge.

INTERNET

Free Wifi internet is provided by the Conference. Log-in details will be provided on-site. 400 MB of data per device per day will be provided.

CONFERENCE APP

OMAE 2022 will utilize a mobile event app in place of a printed program to enhance the conference experience for attendees, speakers, exhibitors, and sponsors. You will be able to:

- Connect with Other Attendees
- Access Session Information
- Watch On Demand Content
- Download Final Papers
- And More!

Keep an eye on your email for more information on how to access and navigate the app!

Attendee Information continued...



ATTENDEE INFORMATION

EXHIBITION HALL

The Exhibition hall will be located in Hall G Foyer and will be open during the following hours:

Sunday, June 5th	18:00 – 20:00 (Welcome Reception)
Monday, June 6th	08:30 – 19:00
Tuesday, June 7th	08:30 – 19:00
Wednesday, June 8th	08:30 – 17:30
Thursday, June 9th	08:30 – 15:30

DIETARY REQUIREMENTS

If you advised of any special dietary requirements when registering for the conference, the caterer has been notified of your needs. Please see a catering staff member with any questions. Vegan meals will be served at lunches on separate buffet stations. If you did not include your special dietary needs during the registration process, advise the staff at the Registration Desk before 18:00 on Sunday, June 5.

COVID PROTOCOLS

At the time of writing, Hamburg's COVID guidelines do not require a mask to be worn while inside the CCH. These guidelines are subject to change, please continuously monitor the guidelines that can be found [here](#).

ASME and the conference organizers do recommend wearing a mask wherever possible at the conference sessions and events. Note that some locations in Hamburg will require you to wear a mask to enter, and some will require a FFP2 (N95) mask. There will be a limited amount of N95 masks available for sale at €3 per mask at the Registration Desk if you have forgotten yours.

HEALTH, SAFETY AND INSURANCE SAFETY

As in all major cities, people should be aware of safety risks. You are advised not to wear your conference name badge outside conference activities. ASME and Sea to Sky Meeting and Association Management Inc. cannot assume any responsibility and will not accept any liability.

There are two main emergency numbers in Germany: 112 & 110. As with many European countries, calling the emergency number 112 in Germany will get you through to the fire brigade and ambulance services, but not the police. If you urgently need the police, the number to call is 110.

Hamburg is like any other big city and basic common sense rules apply. Hamburg is generally safe and you should not encounter any problems. Caution should be taken in red-light districts around the Hauptbahnhof and the Reeperbahn. Petty crime is rare but does occur in major tourist areas. During the day, Police Officers and Community Enforcement Officers should be able to assist you if needed.

AUTHOR PRESENTATIONS

Allocated Time for Presentations

Each presenter has a total of 20 minutes (approximately 15 minutes for presentation and 5 minutes for questions/comments and presenter introduction) for their presentation. The length of presentations will be strictly monitored by the Session Chairs.

Order of Presentations

If an author is not available to present a paper the session chair will play their video. Authors are asked to be in the session room for the entire session, and to be ready to present at any time.

Presentation Format and Audio-Visual Equipment

OMAE will provide a data projector, screen and computer loaded with the English version of Microsoft PowerPoint, Adobe Reader, VLC media player, Windows Media Player (for playing movies) and Windows. **Please note that screens in the CCH session rooms have an aspect ratio of 16:9 so prepare your presentation accordingly.**

If you are working with presentation software other than PowerPoint or pdf files, please save your presentation as a Microsoft Windows PowerPoint compatible file, or a pdf file. Computers in meeting rooms **WILL NOT support Mac file formats or any presentation software other than Windows PowerPoint or pdf files.** Presenters are not permitted to use their own computer for their presentations.

OMAE does not have a mandatory PowerPoint template that presenters must use. Presenters are free to choose their own template.

Loading of Presentations

Presenters are asked to be in their session room 30 minutes prior to the start of the first presentation of their session to upload their presentation, and remain in the room to meet the Session Chairs, and stay for all presentations out of courtesy to the other presenters. **Please bring your presentation on a USB stick.** You may also upload your presentation on to the computer in your session room at any time prior to your talk on the day of your presentation. So that the session chair may easily locate your presentation, please **label your presentation file with time, day, room and surname (ie. 0900 Tues Y12 Smith).** Note that we cannot guarantee high speed internet access in session rooms and data is limited to 400MB per device per day and for this reason online presentations are not possible.



Technology for a
better society

sintef.no

Social Events



WELCOME RECEPTION

Sunday, June 5

18:00 – 20:00

Hall G Foyer, Congress Centre Hamburg

Catch up with colleagues and make new connections at our first in-person OMAE event in three years. You can register for the conference and then join us for appetizers and drinks in the same room starting at 6 pm, so convenient!



CONFERENCE BANQUET

Wednesday, June 8

19:00 – 24:00

Del Mar Beach Club, St. Pauli-Landungsbrücken

The Del Mar Beach Club is a summer hot spot right on the river Elbe. Enjoy a German BBQ, drinks and watch the boats cruise by in the busy harbour. You are welcome to make your own way to the Beach Club, or join us at the CCH at 6 pm for a leisurely walk through [Plantem and Blomen](#) (a 45 hectare park) and several other green spaces for the 3 kilometre walk to the Del Mar Beach Club. Most seating will be outdoors so please keep an eye on the weather forecast and bring a sweater or coat if the weather calls for it. The club does have areas of actual sand on the floor, so wear appropriate footwear, heels are not recommended.



CONFERENCE LUNCHES

Monday, June 6 to Thursday, June 9

12:00 – 13:30 (Wednesday at 12:30–13:30)

Hall G Foyer, Congress Centre Hamburg

Lunch will be provided from Monday to Thursday and is open to all attendees where lunch is included in their fee.

FAREWELL RECEPTION

Thursday, June 9

17:00 – 19:00

Hall F, Congress Centre Hamburg

Hosted by the OMAE 2023 committee, celebrate the end of another amazing conference and find out more about next year's conference in Melbourne, Australia.



Sponsors

PLATINUM SPONSOR AND OUTREACH CO-SPONSOR



SINTEF

www.sintef.no/

SINTEF Ocean conducts research and innovation related to ocean space for Norwegian and international industries. Our ambition is to continue Norway's leading position in marine technology and biomarine research.

Many of the challenges of modern society can be solved through sustainable use of the ocean. Transport, food and

energy production represent the backbone of ocean-based industries and are also core areas for SINTEF Ocean. In addition, we focus on environmental technology, with one of the world's leading professional environments in marine environmental technology. SINTEF Ocean is part of the SINTEF Group, one of Europe's largest independent research organisations.

SYMPOSIA SPONSOR AND OUTREACH CO-SPONSOR



thyssenkrupp

SYMP 6: Ocean Engineering

thyssenkrupp Marine Systems GmbH

www.thyssenkrupp-marinesystems.com

SYMPOSIA SPONSOR AND NAME BADGE SPONSOR



SYMP 9: Ocean Renewable Energy

RWE Renewables GmbH

www.rwe.com

MEDIA SUPPORTERS

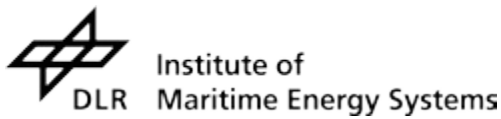


Ocean News & Technology



Ship & Offshore

Exhibitors



Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)
www.dlr.de/ms

The DLR Institute for Maritime Energy Systems researches and develops innovative solutions for the defossilization of-, emissions reduction from-, and enabling increased usage of renewable energy in waterborne transport. The maritime sector handles 80 percent of international freight transport, while approximately accounting for three percent of the global greenhouse gas emissions. Most ships today operate on fossil-based heavy fuel oil, which also contributes to unfavorable air quality. In order to transform these applications, the entire energy conversion chain needs to be considered. In cooperation with the maritime industry, the developed solutions are transferred into practice.



Drift+Noise
driftnoise.com

Drift+Noise Polar Services GmbH is fully committed to assisting stakeholders acting in polar waters with operational ice information from models and satellites, by leveraging technology from polar research, geophysics, and remote sensing. We are looking for early-adopters in the marine and

polar market who are presently investing in the digitization of their operations. Key users of our IcySea service (<https://icysea.app>) include icebreakers like Polarstern (the German national icebreaker operated by the AWI), expedition cruise companies such as Hapag Lloyd Cruises and Marine Technology and Engineering Organisations like the Hamburg Ship Model Basin (HSVA).



German Association for Marine Technology
www.maritime-technik.de

The German Association for Marine Technology (GMT) represents the national interests of companies and research institutions in the area of marine technology towards the public and policy makers. The GMT is supporting the networking of its members from industry and science in order to initiate national and international research and development projects. The association supports its members regarding the development of innovative products and services to open up new market segments in Germany and abroad. Marine engineering develops, produces and uses technologies for the exploration, protection and sustainable use of the oceans.

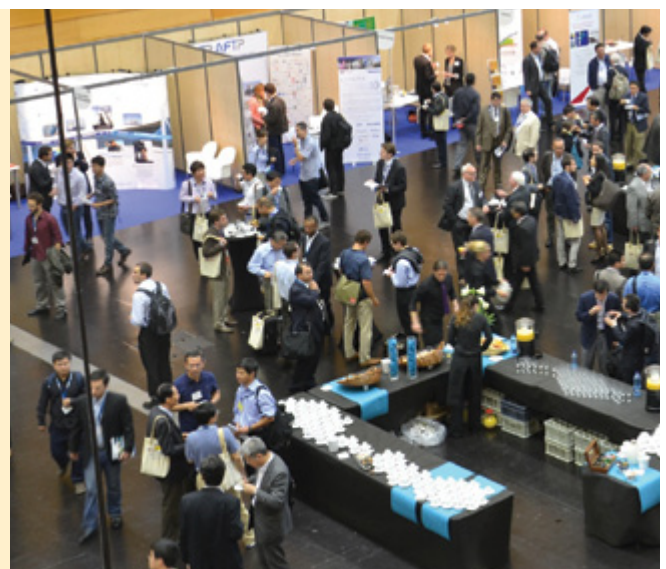
Exhibition Hours

Visit the exhibits to discover new products and services from some of the industry's leading organizations. Coffee and tea will be served amongst the exhibits during refreshment breaks.

Location: Hall G Foyer

Dates & Times:

Sunday, June 5th	18:00 – 20:00 (Welcome Reception)
Monday, June 6th	08:30 – 19:00
Tuesday, June 7th	08:30 – 19:00
Wednesday, June 8th	08:30 – 17:30
Thursday, June 9th	08:30 – 15:30





Hamburg Ship Model Basin

www.hsva.de

Located in Hamburg, the private and independent Hamburg Ship Model Basin - HSVA - is a service and consulting company for clients in the maritime industry worldwide.

Our products contribute to a greener, more sustainable usage of marine environments. We help reducing emissions from shipping and we increase safety in marine transportation. We are partners to our clients for the development of innovative, tailor-made solutions in shipping and offshore operations. For experimental investigations we are offering world class testing facilities.

Its leading role in national and international research programs makes HSVA a most competent partner in science and services in the field of maritime hydrodynamics, maritime aerodynamics and arctic technology as well as associated disciplines.



Helmholtz-Zentrum hereon GmbH

hereon.de

Helmholtz-Zentrum Hereon conducts international cutting-edge research for a changing world: approximately 1,100 employees generate knowledge and innovation to facilitate more resilience and sustainability. Hereon's scientific spectrum encompasses high-performance materials, processes and environmentally friendly technologies for mobility and new energy systems. Furthermore, research is conducted on biomaterials in medicine and for increasing quality of life. Through research and consulting, Hereon addresses the challenges of climate change in a solution-oriented manner and facilitates sustainable management as well as the protection of the coasts and marine environment through comprehensive scientific understanding. From fundamental understanding to practical applications – the interdisciplinary research spectrum covers a unique range.



Sea & Sun Technology GmbH

www.sea-sun-tech.com



SINTEF

www.sintef.no

SINTEF Ocean conducts research and innovation related to ocean space for Norwegian and international industries. Our ambition is to continue Norway's leading position in marine technology and biomarine research.

Many of the challenges of modern society can be solved through sustainable use of the ocean. Transport, food and energy production represent the backbone of ocean-based industries and are also core areas for SINTEF Ocean. In addition, we focus on environmental technology, with one of the world's leading professional environments in marine environmental technology. SINTEF Ocean is part of the SINTEF Group, one of Europe's largest independent research organisations.

SPRINGER NATURE

Springer Nature

www.springernature.com



OMAE 2023

Melbourne, Australia

June 11–16, 2023



**ABSTRACT SUBMISSION will open in July
with a submission deadline of October 24, 2022**

Technical Program



The program shown here is current as of May 27. Please check the conference app or Technical Program on the ASME website for the most up to date version.



Professor Günther
F. Claus

Professor Günther F. Claus Honoring Symposium on Hydrodynamics and Ocean Engineering

The 41st International Ocean, Offshore and Arctic Engineering (OMAE) 2021 Conference is proud to dedicate an Honouring Symposium on Hydrodynamics and Ocean Engineering to Professor Günther F. Claus from Technical University of Berlin (TUB), Germany. He has been contributing in an exceptional way for many years to the scientific development of different topics in the field of Naval Architecture and Ocean Engineering, and had a leading role in several areas of research at national and international level.

Professor Claus studied physics at the Technical Universities of Munich and Berlin. In 1968, he received his doctorate from the Institute of Aerospace Engineering at TUB. Afterwards, at the suggestion of Prof. Alfred Keil, Dean of the Faculty of Engineering at MIT, he shifted his research focus from outer space to inner space – from space to the ocean – and founded, together with his mentor Claus Kruppa, the new Department of Ocean Engineering at TUB. After his habilitation in 1972 and various research stays at MIT (Department of Ocean Engineering), the Institute of Naval and Marine Engineering at the University of California, Berkeley and the Indian Institute of Technology, Madras, he was appointed to the first German Chair of Ocean Engineering at TUB in 1973. Furthermore, he headed the Institute of Marine and Ocean Engineering at TUB for over ten years, was elected Dean of the Faculty of Transport and Mechanical Systems for three terms and was a member of the Academic Senate for a total of twelve years.

Professor Claus' research activities – with a focus on design and hydromechanics of offshore structures – include projects on ship stability and capsizing safety, design and optimisation of offshore platforms, pipeline laying, floating cranes and oil spill response systems. In the field of deep-sea engineering, he developed oceanic resource extraction systems and – with his colleague Hans Gerber – the deep-sea shuttle MODUS. One focus of his research is the deterministic analysis of ships and offshore structures in extreme waves. Numerically and experimentally, it is possible to investigate chains of cause and effect, with tailor-made extreme wave sequences embedded in natural irregular sea states serving to precisely determine non-linear wave-structure interactions. In the field of dismantling offshore platforms, he was appointed to international

supervisory bodies, such as the scientific advisory board for the dismantling of the Ekofisk field (ConocoPhillips) and the Brent field (Shell).

Together with colleagues and industrial partners, he authored more than 400 publications as well as the books 'Meerestechnische Konstruktionen' (also translated into Korean) and 'Offshore Structures' (Vol I - Conceptual Design and Hydromechanics, Vol II - Strength and Safety for Structural Design). More than 30 dissertations were written under his supervision, often within the framework of research projects – funded by the European Union, federal ministries (BMBF, BMWi, BMU), the German Research Foundation (DFG) and the German Federation of Industrial Research Associations (AIF). Professor Claus – member of RINA (F) and Society of Naval Architects and Marine Engineers (SNAME)(M) – was active as chairman and committee member at the International Towing Tank Conference (ITTC) and the International Ship and Offshore Structures Congress (ISSC), served for many years on the board of the Society of Naval Architects and Marine Engineers and chaired the ocean engineering committee there. He was a member of the Technical Advisory Board of Germanischer Lloyd and till today he is the chair of the German Offshore Committee of DNV (former DNV-GL).

AWARDS:

- 2005 – Maritime Technology Award of the Technology Region K.E.R.N. e.V. for his life's work in the field of marine technology.
- 2006 – SOBENA International Reward of the Sociedade Brasileira de Engenharia Naval (for outstanding scientific contributions in the field of marine and maritime technology).
- In 2006/2007, he was honoured by being nominated as Georg Weinblum Memorial Lecturer for outstanding achievements in the field of hydrodynamics

Plenary Sessions

OPENING CEREMONIES AND KEYNOTE PLENARIES

Monday, June 6 | Hall G | 08:30 – 12:00

OPENING CEREMONIES

Sören Ehlers, OMAE 2022 Conference Chair

Dr. Walter L. Kuehnlein, OMAE 2022 Conference Co-Chair

Yiannis Constantinides, OMAE 2022 Technical Program Chair

Welcome from ASME

Claudia Mueller, Federal Government Coordinator for the Maritime Industry and for Tourism, Germany

KEYNOTE PRESENTATIONS

7 Years After Outreach

Willem Hendrik Wehner, Head of Product Architecture Submarines (PHU), Operating Unit Submarines, thyssenkrupp

Future Technologies in Offshore Wind, how the industry wants to tackle hydrogen production offshore and commercial viable floating OWFs

Dr.-Ing. Bernadette Zipfel, MBA, Team Lead Engineering Management Future Technologies, RWE

Dr.-Ing. Michael Biglu, Engineering Management Future Technologies, RWE

OMAE 2023 OVERVIEW

Professor Alexander V. Babanin, OMAE 2023 Conference Chair

PLENARY: CLIMATE CHANGE IMPACTS ON THE COASTS AND OFFSHORE

Wednesday, June 8 | Hall G | 08:30 – 10:30

Join us on Wednesday morning for a very special plenary session on “Climate Change Impacts on the Coasts and Offshore”. Professor Corinna Schrum from the Institut für Meereskunde; Universität Hamburg will give a keynote presentation entitled “Climate Change and its Coastal Impact, a perspective from oceanography and climate science”. Following the presentation we will hear from each of the panelists below, with an open-ended discussion amongst all presenters on the topics presented and interaction with the audience.

PANEL MODERATOR:

Denby Morrison, Retired Shell, GreyMor LLC

PANEL MEMBERS:

Elzbieta M. Bitner-Gregersen, Retired Senior Principal Researcher, DNV Group Research and Development/Principal, Ocean Wave Research. Background: Climate Change and Impact on Design Standards

Walter L. Kuehnlein, Principal, terra.blue. Background: Adapting Arctic Infrastructure and Design Criteria: Understanding Extremes, Key Infrastructure, Risk and adapting to New Demands on Survivability

Dominique Roddier, Co-Founder and Principal, OCERGY. Background: Advances and Challenges in Offshore Wind Energy and Renewables

Solomon Yim, Inaugural Glenn Willis Holcomb Chair at Oregon State University. Background: Tsunamis; Coastal; Offshore

Ian Robertson, Chair and Arthur N.L. Chiu Distinguished Professor; Dept. of Civil and Environmental Engineering, University of Hawaii at Manoa. Background: Vulnerability of Ports, Harbours and Coastal Infrastructure (Coastal Bridges and Roads) to Severe Environmental Impacts

Franz Von Bock und Polach, Institute Head at Hamburg University of Technology. Background: Marine and Ice

Luliia Polkova, Institute of Oceanography; CEN, Universität Hamburg. Background: Improving Climate Prediction Systems

AFTERNOON LECTURE SERIES

Monday, June 6 | Hall F | 17:40 – 18:30

The Conquest of the Oceans – Facing the Engineering Challenge

Prof. Dr. Günther F. Clauss

Tuesday, June 7 | Hall F | 17:40 – 18:30

Tuesday speaker and title to be confirmed shortly.

Wednesday, June 8 | Hall F | 17:40 – 18:30

Endurance found! The science behind the discovery of Shackleton’s Endurance

Dr. Lasse Rabenstein, General Manager, Drift+Noise GmbH (driftnoise.com)

Monday Concurrent Sessions

MONDAY, JUNE 6TH

13:30 – 15:00

Offshore Technology

01-01-01 Offshore Platforms I

Monday June 6 | Room Y1 | 13:30–15:00

Session Organizer: Anil Sablok, Technip Energies, USA

Session Co-Organizer: Allan Magee, National University of Singapore, Singapore

Dynamic Response of a Generic Self-Elevating Unit in Operation with Hull in Water OMAE2022-78850

Chi Zhang, Harrif Santo, Minbo Cai, Allan Magee

Technology Centre for Offshore and Marine, Singapore

Adhesively Bonded FRP Reinforcement of Steel Structures:

Surface Preparation Analysis and Influence of the Primer OMAE2022-79079

Quentin Sourisseau¹ Emilie Lepretre² Sylvain Chataigner² Xavier Chapeleau³ Luc Mouton⁴ Stéphane Paboeuf⁴

1. Université Gustave Eiffel, Nantes, France; 2. Université Gustave Eiffel, Bouguenais, France; 3. Université

Gustave Eiffel, COSYS/SII, I4S Team (Inria), Bouguenais, France; 4. Bureau Veritas, Composite

Material Section, Environment and Technologies Department, Saint Herblain, France

Domino Effect Risk Assessment System for Offshore Oil and Gas Facilities Decommissioning OMAE2022-78196

Yihong Li, Zhiqiang Hu

Newcastle University, Newcastle upon Tyne, United Kingdom

Prelude FLNG Free Weathervaning Heading Prediction and Uncertainties,

Based on Machine Learning Model OMAE2022-79924

Quentin Delivré¹ Jery Rajaobelina¹ Mengchen Kang¹ Jason Mcconochie² Yuriy Drobyshchevski²

1. Technip Energies, Nanterre, France; 2. Shell Australia Pty Ltd, Perth, WA, Australia

Structures, Safety and Reliability

02-06-01 Reliability of Mooring and Riser Systems I

Monday June 6 | Room Hall E | 13:30–15:00

Session Organizer: Luis Sagrilo, Coppe/Federal University of Rio de Janeiro, Brazil

Session Co-Organizer: Ying Min Low, National University of Singapore

Predicting the Dynamic Response of a Steel Lazy Wave Riser in the Time

Domain Using Artificial Neural Networks OMAE2022-78405

Ankang Cheng, Ying Min Low

National University of Singapore, Singapore

An Artificial Neural Network Approach for Fatigue Analysis of Slender Marine Structures OMAE2022-78468

Thiago Rodrigues, Gabriel Gonzalez, Luis Sagrilo

COPPE/UFRJ, Rio de Janeiro, RJ, Brazil

Modified Environmental Contours Approach for Long-term Extreme

Response Prediction of Marine Risers OMAE2022-78640

Qingqing Miao, Ying Min Low

National University of Singapore, Singapore

Implementation of a Thorough Treatment of Chain Out-of-Plane (OPB)

Bending Fatigue with Chainwheel Interaction OMAE2022-78650

Justin Jones, Ian Childs

Petrofac, Woking, United Kingdom

Materials Technology

03-01-01 Fracture Assessment and Control

Monday June 6 | Room Hall D | 13:30–15:00

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Study on Correcting Method for Predicting Brittle Fracture of Surface Cracked Plates in Mixed-Mode Loading OMAE2022-78305

Takuya Akahoshi¹ Koji Azuma¹ Tsutomu Iwashita²

1. Sojo University, Kumamoto, Japan; 2. National Institute of Technology, Ariake College, Omuta, Japan

Transitions in Charpy Energy and Splitting for X70 and X80 Pipe Steel OMAE2022-78918

William Mohr, Tom Mcgaughy

EWI, Columbus, OH, USA

Development of a Stress Intensity Factor Solution for Mechanically Lined Pipe OMAE2022-78559

Carol Johnston¹ Tyler London²

1. TWI Ltd, Cambridge, United Kingdom; 2. TWI Ltd, Middlesbrough, United Kingdom

Pipeline, Risers, and Subsea Systems

04-01-02 Flexible Pipes and Umbilicals II

Monday June 6 | Room Y2 | 13:30–15:00

Session Organizer: Zhimin Tan, Baker Hughes, USA

Session Co-Organizers: Jun Yan, Dalian University of Technology, China (Mainland); Krassimir Doynov, ExxonMobil, USA; José Renato Mendes De Sousa, Federal University of Rio de Janeiro, Brazil; Theodoro Netto, Fundacao Copetec, Brazil; Duane DeGeer, Intecsea, USA; Anh Tuan Do, TechnipFMC, France; Alan Dobson, TechnipFMC, United Kingdom

Gas Diffusion in Flexible Pipes: a Comparison between Two- and Three-dimensional FE Models to Predict Annulus Composition OMAE2022-78325

João Marcos Bastos Vieira, José Renato Mendes De Sousa

Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

Experimental Strain Field Assessment of Pressure Armor Profiles Subjected to Compression Loads via Digital Image Correlation OMAE2022-79419

Caio C. P. Santos¹ Celso Pupo Pesce¹ Rafael G. Savioli¹ Diego Sarzosa Burgos¹

George Carneiro Campello² Thiago Brun Coser² Rodolfo F. De Souza²

1. Offshore Mechanics Laboratory from the University of Sao Paulo (LMO-USP), Sao Paulo, SP, Brazil;

2. CENPES/PETROBRAS, Rio de Janeiro, RJ, Brazil

The Long-Term Stress Range Distribution of Marine Risers considering the Effect of Wave Directionality OMAE2022-80863

Zohreh Sadat Haghayeghi, Mohammad Javad Ketabdari

Amirkabir University of Technology, Tehran, Iran

Ocean Space Utilization

05-02-01 Aquaculture and Related Technology I

Monday June 6 | Room Y3 | 13:30–15:00

Session Organizer: Muk Chen Ong, University of Stavanger, Norway

Dynamic Simulation of an Offshore Aquaculture Structure under Combined Wave and Current Conditions OMAE2022-78570

Hui Cheng, Muk Chen Ong, Lin Li

University of Stavanger, Stavanger, Norway

Numerical Modelling of Drag and Lift Forces on Aquaculture Nets: Comparing New Numerical Load Model with Physical Model Test Results OMAE2022-78924

Per Christian Endresen, Heidi Moe Føre
SINTEF Ocean AS, Trondheim, Norway

Comparative Verification of Numerical Analysis and Model Experiments for Oyster Farming OMAE2022-78933

Hiroki Tamura¹ Yasunori Nihei²
1. Osaka Prefecture University, Osaka-shi, Japan; 2. Osaka Prefecture University, Sakai-shi, Japan

Experimental Study on Local Scour of Triangular Artificial Reef OMAE2022-78936

Fenfang Zhao, Shiji Xu, Mingda Yang, Yanli Tang, Liuyi Huang, Guangjie Fang
Ocean University of China, Qingdao, China (Mainland)

Ocean Engineering

06-02-01 Coastal Engineering I

Monday June 6 | Room Y4 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Yuzhu Pearl Li, National University of Singapore, Denmark; Kuang-An Chang, Texas A&M University, USA; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil

Numerical Investigation of Flow in Porous Media around a Mono-Pile under Steady Current OMAE2022-79002

Yanyan Zhai, Erik Damgaard Christensen
Technical University of Denmark, Kgs. Lyngby, Denmark

Hydroelastic Simulation of Breaking Wave Impact on a Flexible Coastal Seawall OMAE2022-79099

Yuzhu Li¹ Zhengyu Hu¹ Luofeng Huang²
1. National University of Singapore, Singapore, Singapore; 2. University College London, London, United Kingdom

An Experimental Study on the Wave Force on the Slope of Smoothed Mound Breakwater with and without Crown Wall under Medium-long Period Waves OMAE2022-79286

Xinyu Han, Sheng Dong
Ocean University of China, Qingdao, China (Mainland)

On Some Nonlinear Wave Diffraction and Refraction Solutions in Shallow Waters OMAE2022-79413

Masoud Hayatdavoodi¹ R. Cengiz Ertekin²
1. University of Dundee, Dundee, United Kingdom; 2. University of Hawaii, Honolulu, HI, USA

Ocean Engineering

06-03-01 Fluid-structure, Multi-body and Wave-body Interaction I

Monday June 6 | Room Y12 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Torgeir Vada, DNVGL, Norway; Pierre Ferrant, Ecole Centrale De Nantes/Cnrs, France; Marcelo Caire, Federal University of Rio de Janeiro, Brazil; Nuno Fonseca, SINTEF Ocean, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil

Multiple Hinged Floaters – an Experimental Study on Hydrodynamic Responses in Waves OMAE2022-78435

Gerrit Assbrock¹ Jorge Lucas² Jens Ley¹
1. Development Centre for Ship Technology and Transport Systems, Duisburg, Germany; 2. NEMOS GmbH, Duisburg, Germany

A Single Cavitation Bubble Induced Damage OMAE2022-78536

Hemant Sagar, Ould El Moctar
Institute of Ship Technology, Ocean Engineering and Transport Systems (ISMT),
University of Duisburg-Essen, Germany, Duisburg, Germany

Evaluation of Hydrodynamic Loads on a Concrete Gravity-Based Offshore Structure in Extreme Waves OMAE2022-78578

M Hasanat Zaman, Ayhan Akinturk
National Research Council Canada, St. John's, NL, Canada

A Comparison of Finite Element Computations and an Analytical Approach for Determining Hull-induced Underwater-radiated Noise OMAE2022-78674

Gyde Andresen-Paulsen¹ Rüdiger Ulrich Franz von Bock und Polach¹ Matthias Donderer²

1. Institute for Ship Structural Design and Analysis, Hamburg University of Technology, Hamburg, Germany; 2. MAN Energy Solutions SE, Augsburg, Germany

CFD and VIV

08-04-01 FSI

Monday June 6 | Room Y6 | 13:30–15:00

Session Organizer: Guilherme Vaz, blueOASIS, Portugal

Session Co-Organizer: Owen Oakley, Retired, USA

A Fluid-structure Interaction Model on the Hydroelastic Analysis of a Container Ship Using preCICE OMAE2022-78131

Yujia Wei, Tahsin Tezdogan

University of Strathclyde, Glasgow, United Kingdom

A Coupled Wave-Current-Structure Study for a Floating Offshore Wind Turbine Platform OMAE2022-79016

Xiang Li¹ Qing Xiao² Rodolfo Gonçalves³ Christophe Peyrard⁴

1. University of Strathclyde, Glasgow, United Kingdom; 2. Department of Naval Architecture, Ocean and Marine Engineering, University of Strathclyde, Glasgow, United Kingdom; 3. Ocean Space Planning Laboratory, Department of Systems Innovation, School of Engineering, The University of Tokyo, Tokyo, Japan; 4. Saint-Venant Hydraulics Laboratory, Chatou, France

Advanced Methods for Partitioned Fluid-Structure Interaction

Simulations Applied to Ship Propellers OMAE2022-80507

Jorrid Lund, Daniel Ferreira González, Lars Radtke, Moustafa Abdel-Maksoud, Alexander Düster

Hamburg University of Technology, Hamburg, Germany

Ocean Renewable Energy

09-01-01 Installation, Marine Operations and Maintenance I

Monday June 6 | Room Y7 | 13:30–15:00

Session Organizer: P. R. Thies, Exeter, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Tow Out Calculations for Floating Wind Turbines OMAE2022-78095

Alan Crowle, P. R. Thies

University of Exeter, Penryn, United Kingdom

A Three Degrees of Freedom Vibration Model for a Partially Installed Wind Turbine OMAE2022-79081

Andreas Haselsteiner, Aljoscha Sander, Klaus-Dieter Thoben

University of Bremen, Bremen, Germany

Installation Potential of Very Large Floating Offshore Wind Turbines in Japan OMAE2022-78964

Toshiki Chujo

National Maritime Research Institute, Tokyo, Japan

Ocean Renewable Energy

09-02-01 Wave Environmental Modeling

Monday June 6 | Room Y8 | 13:30–15:00

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Wave-by-Wave Prediction in Narrowly Spread Seas Using Fixed- and Drifting-Point

Wave Records: Validation Using Physical Measurements OMAE2022-80885

Thobani Hlophe¹ Hugh Wolgamot² Paul Taylor² Adi Kurniawan¹ Jana Orszaghova² Scott Draper²

1. University of Western Australia, Albany, WA, Australia; 2. University of Western Australia, Perth, WA, Australia

Wave Record Gap-filling Using a Low-rank Tensor Completion Model OMAE2022-79897

Jiaxin Chen¹ Ian Ashton² Ajit Pillai¹

1. University of Exeter, Penryn, United Kingdom; 2. University of Exeter, Falmouth, United Kingdom

Environmental Extreme Conditions for a Wave Energy Converter: an Integrated Wave-structure Approach OMAE2022-79674

Saghy Saeidtehrani, George Lavidas, Andrei Metrikine

Delft University of Technology, Delft, Netherlands

Design and Optimization of a Point Absorber for the Mediterranean Sea OMAE2022-81530

Alberto Ghigo, Sergej Antonello Sirigu, Fabio Carapellese, Giovanni Bracco

Politecnico di Torino, Turin, Italy

Offshore Geotechnics

10-01-01 Seabed Properties and Processes

Monday June 6 | Room Y9 | 13:30–15:00

Session Organizer: Christian Windt, Technical University of Braunschweig, Ireland

Session Co-Organizers: Christian Windt, Technical University of Braunschweig, Ireland

Numerical Modelling of Liquefaction around Marine Structures – Progress and Recent Developments OMAE2022-79821

Christian Windt¹ Nils Goseberg¹ Stefan Schimmels² Matthias Kudella² Ranjith Khumar Shanmugasundaram³

Henrik Rusche³ B. Mutlu Sumer⁴ Özgür Kirca⁴ Vinay Kumar Vanjakula⁵ Frank Adam⁵

Dawid Majewski⁶ Krystyna Kazimierowicz-Frankowska⁶ Grzegorz Hrycyna⁷

1. Leichtweiß-Institute for Hydraulic Engineering and Water Resources, Technische Universität Braunschweig, Braunschweig, Germany; 2. Coastal Research Centre, Hannover, Germany; 3. WIKKI GmbH, Wernigerode, Germany; 4. BM SUMER Consultancy & Research, Maslak, Turkey; 5. GICON GmbH, Rostock, Germany; 6. Institute of Hydro-Engineering of Polish Academy of Sciences, Gdansk, Poland; 7. Projmors, Gdansk, Poland

Numerical Modelling of Wave-Induced Liquefaction around Pipelines and Offshore Cables OMAE2022-78992

V. S. Ozgur Kirca¹ S. Utku Yilmaz² B. Mutlu Sumer¹ Ranjith Khumar Shanmugasundaram³

Henrik Rusche³ Christian Windt⁴ Nils Goseberg⁴

1. BM SUMER Consultancy & Research, Istanbul, Turkey; 2. Istanbul Technical University, Sariyer, Turkey; 3. WIKKI GmbH, Wernigerode, Germany; 4. Leichtweiß-Institute for Hydraulic Engineering and Water Resources, Technische Universität Braunschweig, Braunschweig, Germany

Numerical Modelling of Residual Liquefaction in the Subsoil under a Vibrating Plate OMAE2022-79025

Ranjith Khumar Shanmugasundaram¹ Henrik Rusche¹ Christian Windt² V S Özgür Kirca³ B Mutlu Sumer⁴ Nils Goseberg⁵

1. WIKKI GmbH, Wernigerode, Germany; 2. Leichtweiß-Institute for Hydraulic Engineering and Water Resources, TU Braunschweig, Braunschweig, Germany; 3. Istanbul Technical University, Istanbul, Turkey; 4. BM SUMER Consultancy & Research, Istanbul, Turkey; 5. Leichtweiß-Institut for Hydraulic Engineering and Water Resources, Braunschweig, Germany

The Effect of the Height of the Regular Wave on Seabed Liquefaction OMAE2022-78537

Krystyna Kazimierowicz-Frankowska, Marek Kulczykowski, Dawid Majewski, Jacek Mierczyński, Marcin Smyczyński

Institute of Hydro-Engineering, PAS, Gdańsk, Poland

Petroleum Technology

11-02-01 Well Drilling Fluids and Hydraulics I

Monday June 6 | Room Y10 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Arild Saasen, University of Stavanger, Norway; Evren Ozbayoglu, University of Tulsa, USA

Experimental Bench-scale Study on Cuttings-bed Erosion in Horizontal Wells OMAE2022-78266

Camilo Pedrosa¹ Bjornar Lund² Jan David Ytrehus² Nils Opedal² Arild Saasen³

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF, Trondheim, Norway; 3. University of Stavanger, Stavanger, Norway

Physic Based Approach for Solid Transport in Deviated and Horizontal Well OMAE2022-78532

Sartika Dwi Purwandari¹ Bjørnar Lund² Sigve Hovda¹

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF, Trondheim, Norway

Transient Cuttings Transport for Real-time Systems OMAE2022-78394

Roger Aragall, Alexander Starostin, Roland May, Thomas Dahl

Baker Hughes, Celle, Germany

A Generalized Model for Field Assessment of Particle Settling Velocity in Viscoelastic Fluids OMAE2022-78264

Hongbo Chen, Ergun Kuru

University of Alberta, Edmonton, AB, Canada

Petroleum Technology

11-10-01 Development of Unconventional Reservoirs I

Monday June 6 | Room Y11 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Hadi Belhaj, Khalifa University, U.A.E.; Huazhou Li, University of Alberta, Canada

Application of New Viscoelastic Acidizing of Diverting Technology

in Horizontal Wells of Tarim Oilfield OMAE2022-78020

Wang Jie¹ Houshun Jiang² Hualei Xu²

1. Yangtze University, Beijing, China (Mainland); 2. Yangtze University, Wuhan, China (Mainland)

Research on Air-Foam/Polymer-Based Profile Control and Flooding

Technology in Heterogeneous Reservoirs OMAE2022-78021

Wang Jie¹ Houshun Jiang² Hong Yang³ Lufeng Zhang⁴

1. Yangtze University, Beijing, China (Mainland); 2. Yangtze University, Wuhan, China (Mainland); 3. Shaanxi Yanchang Petroleum (Group) Co. LTD, Wuhan, China (Mainland); 4. Sinopec Exploration and Development Research Institute, Wuhan, China (Mainland)

Optimal Design of Polymer Gel Profile Control for Gaskule E31 Deep Reservoir OMAE2022-78031

Hualei Xu, Houshun Jiang, Jie Wang

Yangtze University, Caidian, Wuhan, China (Mainland)

Optimization and Design of Separate Layer Fracturing in Tight Low Permeability

Sandstone Gas Reservoir: a Case Study OMAE2022-78539

Lufeng Zhang¹ Fengxia Li¹ Haibo Wang¹ Jie Wang²

1. State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms and Effective Development, Sinopec Petroleum Exploration and Production Development Research Institute, Beijing, China (Mainland);
2. Department of Petroleum Engineering, Yangtze University, Wuhan, China (Mainland)

CONCURRENT SESSIONS

15:30 – 17:30

Offshore Technology

01-06-01 CFD Modeling Practice and Verification I

Monday June 6 | Room Y1 | 15:30–17:30

Session Organizer: Jerry Huang, ExxonMobil, USA

Session Co-Organizers: Guangyu Wu, Chevron, USA; Jang Kim, Technip, USA

Slamming Induced Fatigue in a Moonpool with a Recess OMAE2022-78395

Dimitris Chalkias, Zana Sulaiman

GustoMSC, Schiedam, Netherlands

Numerical Simulation of Local Scour around Square Artificial Reef OMAE2022-78941

Mingda Yang, Yanli Tang, Fenfang Zhao, Shiji Xu, Guangjie Fang

Ocean University of China, Qingdao, China (Mainland)

A Joint-Industry Effort to Develop and Verify CFD Modeling Practice for Predicting Hydrodynamic Coefficients of Risers: Part II – Staggered Buoyancy Module and Straked Riser OMAE2022-79147

Hyunchul Jang¹ Madhusuden Agrawal² Zhenjia (Jerry) Huang³ Fengjian Jiang⁴ Jie Wu⁴ Halvor Lie⁴ Eloïse Croonenborghs⁴
1. Technip Energies, Houston, TX, USA; 2. BP, Houston, TX, USA; 3. ExxonMobil, Spring, TX, USA; 4. SINTEF Ocean, Trondheim, Norway

Joint-Industry Effort to Develop and Verify CFD Modeling Practice for Predicting Wave Impact OMAE2022-79152

Csaba Pakozdi¹ Eloise Croonenborghs¹ Jang Kim² Milovan Peric³ Guillaume Ducrozet⁴ Benjamin Bouscasse⁴ Haihua Xu⁵ Andrea Califano¹ Andreas Akselsen¹ Sebastien Loubeyre⁶
1. SINTEF Ocean, Trondheim, Norway; 2. Front Energies, Houston, TX, USA; 3. CoMeT Continuum Mechanics Technologies GmbH, Erlangen, Germany; 4. LHEEA Laboratory, Nantes, France; 5. Technology Centre for Offshore and Marine, Singapore, Singapore; 6. BV Solutions, Nantes, France

A Hybrid Numerical Wave Model for Extreme Wave Kinematics OMAE2022-87901

Jang Kim¹ Sewan Park² Johyun Kyoung¹ Aldric Baquet¹ Zhirong Shen¹ Yoon-Jin Ha² Kyong-Hwan Kim²
1. Front Energies, Houston, TX, USA; 2. KRISO, Daejeon, Korea

Structures, Safety and Reliability

02-06-02 Reliability of Mooring and Riser Systems II

Monday June 6 | Room Hall E | 15:30–17:30

Session Organizer: Ying Min Low, National University of Singapore, Singapore

Session Co-Organizer: Luis Sagrilo, Coppe/Federal University of Rio de Janeiro, Brazil

The Effect of Pitting Corrosion on Fatigue Performance of Mooring Line Chain Links OMAE2022-78408

Filipe Rezende, Marina Simão, Paulo Videiro, Luis Sagrilo
LACEO/COPPE/UFRJ, Rio de Janeiro, RJ, Brazil

A Hybrid Time-frequency Domain Approach for Estimating Mooring Lines Dynamic Response OMAE2022-79118

Marina Simão, Marcos De Siqueira, Thiago Ângelo De Lacerda, Paulo Maurício Videiro, Luis Volnei Sudati Sagrilo
LACEO, Rio de Janeiro, RJ, Brazil

Recommendations for a Fatigue Design Analysis Calibrated Using Structural Reliability Analysis OMAE2022-81463

Torfinn Hørte, Siril Okkenhaug
DNV, Høvik, Norway

Analysis of Chain Fatigue Test Data for New and Used Mooring Chains OMAE2022-81465

Torfinn Hørte, Limin Yang, Siril Okkenhaug
DNV, Høvik, Norway

A Monte Carlo Approach for Fatigue Analysis of Mooring Lines Subjected to Simultaneous Environmental Actions OMAE2022-79098

Pedro Seabra¹ Mauro Oliveira¹ Marina Simão² Paulo Videiro² Luis Sagrilo²
1. Petrobras, Rio de Janeiro, RJ, Brazil; 2. Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

Materials Technology

03-02-01 Fatigue Performance and Testing

Monday June 6 | Room Hall D | 15:30–17:30

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Effect of Low Pretension on the Fatigue Performance of Large Bolts OMAE2022-78556

Carol Johnston
TWI Ltd, Cambridge, United Kingdom

Influence of Grease Lubrication on Fretting-Fatigue Damages of Steel Wire Ropes OMAE2022-79102

Sébastien Montalvo¹ Siegfried Fouvry² Michaël Martinez¹
1. IFPEN, Solaize, France; 2. Ecole Centrale de Lyon, Écully, France

On the Feasibility of Large-scale Resonant Fatigue Testing to Study Bolt Force Relaxation OMAE2022-79247
Jeroen Van Wittenberghe¹ Cedric Vanden Haute² Rasoul Shirzadeh² Philippe Thibaux¹
1. OCAS NV, Zwijnaarde, Belgium; 2. Parkwind, Leuven, Belgium

Low Cycle Fatigue Evaluation for High Strength Welded T-Joint Based on Structural Strain Method OMAE2022-79765
Ji Hoon Kim¹ Myung Hyun Kim¹ Won Ki Moon² Jong Il Lim³ Seong Min Kim⁴ Kwang Hee Yun⁴
1. Pusan National University, Busan, Korea; 2. Ship & Offshore Technology Team, Korean Register, Busan, Korea; 3. Naval & Special Ship Structural Design Department, Daewoo Shipbuilding & Marine Engineering Co.,LTD., Geoje, Korea;
4. Welding Engineering R&D Department, Daewoo Shipbuilding & Marine Engineering Co.,LTD., Geoje, Korea

Pipeline, Risers, and Subsea Systems

04-01-01 Flexible Pipes and Umbilicals I

Monday June 6 | Room Y2 | 15:30–17:30

Session Organizer: Zhimin Tan, Baker Hughes, USA

Session Co-Organizers: Jun Yan, Dalian University of Technology, China (Mainland); José Renato Mendes De Sousa, Federal University of Rio de Janeiro, Brazil; Theodoro Netto, Fundacao Coppetec, Brazil; Duane DeGeer, Intecsea, USA; Anh Tuan Do, TechnipFMC, France; Alan Dobson, TechnipFMC, United Kingdom

A Data-Driven Framework for Fatigue Monitoring of Operating Flexible Risers OMAE2022-78017
Rasoul Hejazi¹ Andrew Grime¹ Ian Milne¹ Phil Watson¹ Elizabeth White² Alessio Mariani² Max Lanoelle³
1. University of Western Australia, Crawley, WA, Australia; 2. Woodside Energy Limited, Perth, Australia; 3. Wood PLC, Perth, Australia

Derivation of Vessel Motions as Operational Limits and Motion Forecasting with 2D Wave Spectra: Case Study of Inter-array Subsea Cable Installation in the North Sea OMAE2022-79459

Javier Riverola Calavia¹ Mark Paalvast² Bart Ledoux¹ Jelte Kymmell²
1. Jan de Nul Group, Aalst, Belgium; 2. Mocean Forecast BV, Amsterdam, Netherlands

An Alternative Measurement Method to Identify the Minimum Bending Radius of Locked Deformed Bend Restrictor Elements under Load OMAE2022-79709

Lars Jordal¹ Erwin Vermeer² Morten Limi¹ Kjetil Andre Karlsen¹
1. Nexans Norway AS, Halden, Norway; 2. Combiteq AS, Halden, Norway

A Numerical Investigation on Flow Induced Vibration of Flexible Risers in Tandem Arrangements OMAE2022-80601
Arun Periyal¹ Ritwik Ghoshal² Vaibhav Joshi³

1. Indian Institute of Technology Kharagpur, Paschim Medinipur, WB, India; 2. Indian Institute of Technology Kharagpur, Kharagpur, WB, India; 3. Birla Institute of Technology & Science Pilani, Goa, GA, India

Machine Learning in Fatigue Analysis for an Unbonded Flexible Riser OMAE2022-83730

Jiabei Yuan, Linfa Zhu, Yucheng Hou, Zhimin Tan
Baker Hughes, Katy, TX, USA

Ocean Space Utilization

05-05-01 Floating System for Renewable Energy I

Monday June 6 | Room Y3 | 15:30–17:30

Session Organizer: Shigeru Tabeta, The University of Tokyo, Japan

Finite Element Modelling of Ocean Thermal Energy Conversion (OTEC) Cold Water Pipe (CWP) OMAE2022-78135

Ristiyanto Adiputra, Tomoaki Utsunomiya
Kyushu University, Fukuoka, Japan

Experimental Study on Dynamic Characteristics of Fluid-conveying Pipe for OTEC OMAE2022-78136

Ryoya Hisamatsu, Ristiyanto Adiputra, Tomoaki Utsunomiya
Kyushu University, Fukuoka-shi, Japan

Motion Performance of Miniaturized Spar-Buoy with Ring-Fin Motion Stabilizer for Wind Observations by Doppler Lidar and Development of Stabilized Platform to Mount the Doppler Lidar OMAE2022-78175

Yusuke Yamamoto, Mizuki Kinugasa, Mayo Morita, Toru Katayama
Osaka Prefecture University, Sakai, Japan

A Basic Study on the Effect of Deep Learning to Determine the Control Force to Maximize the Power Generation of PA-WEC in Irregular Waves OMAE2022-78521

Motohiko Murai, Sho Sakamoto

Yokohama National University, Yokohama, Japan

Ocean Engineering

06-01-01 Computational Mechanics and Design Applications

Monday June 6 | Room Y4 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Wei Qui, MUN, Canada; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Daniel De Oliveira Costa, Universidade Federal do Rio de Janeiro, Brazil

Preliminary Study of Floating Offshore Wind Turbines Motions Using the Smoothed Particle Hydrodynamics Method OMAE2022-78419

Bonaventura Tagliaferro¹ Madjid Karimirad² Iván Martínez-Estévez³ José Manuel Domínguez³ Alejandro Jacobo Crespo³ Moncho Gómez Gesteira³ Giacomo Viccione¹

1. University of Salerno, Fisciano, Italy; 2. Queen's University Belfast, Belfast, United Kingdom; 3. University of Vigo, Ourense, Spain

A Life-Cycle Cost Framework for Onboard Emission Reduction Technologies: The Case of the Flapping-foil Thruster Propulsion Innovation OMAE2022-79031

Nikolaos Ventikos¹ Lokukaluge Prasad Perera² Panagiotis Sotiralis¹ Manolis Annetis³ Eirini Stamatopoulou¹

1. National Technical University of Athens, Zografou, Greece; 2. UiT The Arctic University of Norway, Tromsø, Norway; 3. National Technical University of Athens, Athens, Greece

Probabilistic Design of Thin-Walled Cylindrical Structures for Application in Large Cargo Submarines OMAE2022-79485

Philip Lundberg Jamissen, Yucong Ma, Yihan Xing

University of Stavanger, Stavanger, Norway

Computational Study on the Transmission of COVID-19 Virus inside a Ship OMAE2022-80182

Luofeng Huang¹ Seogeng Riyadi² I Ketut Aria Pria Utama² Giles Thomas¹

1. University College London, London, United Kingdom; 2. Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

Ocean Engineering

06-03-02 Fluid-structure, Multi-body and Wave-body Interaction II

Monday June 6 | Room Y12 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Torgeir Vada, DNVGL, Norway; Pierre Ferrant, Ecole Centrale De Nantes/Cnrs, France; Marcelo Caire, Federal University of Rio de Janeiro, Brazil; Nuno Fonseca, SINTEF Ocean, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil

Numerical Modeling of Moored Floating Platforms for Wave Energy Converters Using DualSPHysics OMAE2022-78810

Bonaventura Tagliaferro¹ Iván Martínez-Estévez² César Crego-Loureiro² José Manuel Domínguez² Alejandro Jacobo Crespo² Ryan Coe³ Giorgio Bacelli³ Moncho Gómez Gesteira² Giacomo Viccione⁴

1. University of Salerno, Salerno, Italy; 2. University of Vigo, Ourense, Spain; 3. Sandia National Laboratories, Albuquerque, NM, USA; 4. University of Salerno, Fisciano, Italy

Further Investigation on Wave Impact Loads on the Underside of a 2D Flat-bottomed Model OMAE2022-78926

Daniel Costa, Antonio Carlos Fernandes, Joel Sales Junior, Julia Perim

Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

Application of Dipole Damper Panels in Modelling Gap Resonance OMAE2022-78986

Babak Ommani¹ Senthuran Ravinthrakumar¹ Trygve Kristiansen² Idunn Olimb³ Bernt Karsten Lyngvær³

1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Equinor Energy, Sandsli, Norway

Experimental Investigation of the Hydrodynamic Interaction of Syde-by-Syde FPSOS in Waves OMAE2022-79063
Claudio Alexis Rodríguez Castillo, Vinicius Lopes Vileti, Paulo De Tarso Themistocles Esperança
Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

Polar and Arctic Sciences and Technology

07-01-01 Structures in Ice

Monday June 6 | Room Y5 | 15:30–17:30

Session Organizer: Sören Ehlers, Hamburg University of Technology, Germany

Session Co-Organizer: Walter Kuehnlein, terra.blue, Germany

Lessons Learned: the Influence of Testing Properties on Uniaxial Compression Tests of Ice OMAE2022-78068

Angelo Mario Böhm, Hauke Herrnring, Franz von Bock und Polach
Hamburg University of Technology, Hamburg, Germany

Fatigue Strength of Fixed Offshore Structures under Variable Amplitude

Loading Due to Wind, Wave, and Ice Action OMAE2022-78764

Moritz Braun¹ Alfons Dörner¹ Tom Willems² Marc Seidel² Hayo Hendrikse³ Knut Høyland⁴ Claas Fischer⁵ Sören Ehlers⁶

1. Institute for Ship Structural Design and Analysis, Hamburg University of Technology, Hamburg, Germany; 2. Siemens Gamesa Renewable Energy GmbH & Co. KG, Hamburg, Germany; 3. Department of Hydraulic Engineering, Delft University of Technology, Delft, Netherlands; 4. Department of Civil and Environmental Engineering, the Norwegian University of Science and Technology (NTNU), Trondheim, Norway; 5. TÜV NORD EnSys GmbH & Co. KG, Hamburg, Germany; 6. DLR Institute for Maritime Energy Systems, Hamburg, Germany

Classification of Ice-induced Vibration Regimes of Offshore Wind Turbines OMAE2022-78972

Tim C. Hammer, Cody C. Owen, Marnix Van Den Berg, Hayo Hendrikse
Delft University of Technology, Department of Hydraulic Engineering, Delft, Netherlands

Ice-Induced Loads on Offshore Wind Turbines in the Baltic Sea OMAE2022-79035

Kristjan Tabri¹ Tõnis Tõns¹ Mikko Suominen² Mihkel Kõrgesaar³

1. Tallinn University of Technology, Tallinn, Estonia; 2. Aalto University, Espoo, Finland;
3. Small Craft Competence Centre, TalTech, Kuressaare, Estonia

CFD and VIV

08-06-01 VIV in Time-Varying Flows

Monday June 6 | Room Y6 | 15:30–17:30

Session Organizer: Shixiao Fu, SJTU, China (Mainland)

Session Co-Organizer: Owen Oakley, Retired, USA

Time Domain Prediction of VIV Responses in Oscillatory Flow Conditions OMAE2022-79191

Jie Wu¹ Decao Yin¹ Jingzhe Jin¹ Halvor Lie¹ Elizabeth Passano¹ Svein Sævik² Guttorm Grytøyr³

Michael A. Tognarelli⁴ Daniel Karunakaran⁵ Torgrim Andersen⁶ Ragnar Igland⁷
1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Equinor, Fornebu, Norway; 4. BP America Production Company, Houston, TX, USA; 5. Subsea7, Stavanger, Norway; 6. Kongsberg Maritime, Aske, Norway; 7. Aker Solutions, Trondheim, Norway

Vortex-induced Vibrations of a Top-tensioned Riser in Combined Currents and Waves OMAE2022-79033

Decao Yin¹ Jie Wu¹ Halvor Lie¹ Elizabeth Passano¹ Svein Sævik² Guttorm Grytøyr³ Michael A. Tognarelli⁴

Torgrim Andersen⁵ Ragnar Igland⁶ Daniel Karunakaran⁷ Collin Gaskill⁸
1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Equinor ASA, Fornebu, Norway; 4. BP America Production, Houston, TX, USA; 5. Kongsberg Maritime, Asker, Norway; 6. Aker Solutions, Trondheim, Norway; 7. Subsea7, Stavanger, Norway; 8. CRP Subsea, Skelmersdale, United Kingdom

VIV Responses of a Drilling Riser Subjected to Current and Top Motions OMAE2022-79180

Jie Wu¹ Decao Yin¹ Jingzhe Jin¹ Halvor Lie¹ Elizabeth Passano¹ Svein Sævik² Michael A. Tognarelli³

Guttorm Grytøyr⁴ Ragnar Igland⁵ Daniel Karunakaran⁶ Torgrim Anderson⁷ Collin Gaskill⁸
1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. BP America Production Co., Houston, TX, USA; 4. Equinor, Fornebu, Norway; 5. Aker Solutions, Trondheim, Norway; 6. Subsea7, Stavanger, Norway; 7. Kongsberg Maritime, Akser, Norway; 8. CRP Subsea Ltd., Skelmersdale, United Kingdom

Application of Optimization Algorithm on Parameters of an Empirical VIV Prediction Tool OMAE2022-79015

Decao Yin¹ Jie Wu¹ Halvor Lie¹ Jingzhe Jin¹ Elizabeth Passano¹ Svein Sævik² Solve Eidnes³ Guttorm Grytøyr⁴
Michael A. Tognarelli⁵ Torgrim Andersen⁶ Ragnar Igland⁷ Daniel Karunakaran⁸ Collin Gaskill⁹

1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. SINTEF Digital, Oslo, Norway; 4. Equinor ASA, Fornebu, Norway; 5. BP America Production, Houston, TX, USA; 6. Kongsberg Maritime, Asker, Norway; 7. Aker Solutions, Trondheim, Norway; 8. Subsea7, Stavanger, Norway; 9. CRP Subsea, Skelmersdale, United Kingdom

Experimental Investigation on Hydrodynamic Forces of Semi-Submerged Cylinder in Combined Steady and Oscillatory Flow OMAE2022-79804

Tengyan Hu, Haojie Ren, Jiawei Shen, Zhibo Niu, Mengmeng Zhang, Yuwang Xu
Shanghai Jiao Tong University, Shanghai, China (Mainland)

Ocean Renewable Energy

09-01-02 Installation, Marine Operations and Maintenance II

Monday June 6 | Room Y7 | 15:30–17:30

Session Organizer: P. R. Thies, Exeter, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

A Statistical Model of Motion Maxima of Offshore Wind Turbine Components during Installation OMAE2022-79203

Lena Ströer, Andreas Haselsteiner, Aljoscha Sander, Klaus-Dieter Thoben
Universität Bremen, Bremen, Germany

Offshore Wind Power Construction Efficiency Assessment in Fujian Sea Area Based on the Mixed Integer Linear Programming OMAE2022-79283

Zihao Yang¹ Yifan Lin² Sheng Dong¹

1. Ocean University of China, Qingdao, China (Mainland); 2. Huadian Heavy Industries Co., Ltd., Beijing, China (Mainland)

Investigating the Impact of Disruptive Events on the Fabrication and Installation Processes for a Floating Offshore Wind Farm OMAE2022-79407

Zohreh Sarichloo¹ Adrian Murphy¹ Joseph Butterfield¹ W. John Doran¹ Paddy Hannigan² Cian Desmond³

1. Queen's University Belfast, Belfast, United Kingdom; 2. Letterkenny Institute of Technology, Letterkenny, Ireland; 3. Gavin & Doherty Geosolutions, Dublin, Ireland

Fmi-based Co-simulation of Low-height Lifting System for Offshore Wind Turbine Installation OMAE2022-79844

Shuai Yuan, Behfar Ataei, Karl Henning Halse, Houxiang Zhang, Hans Petter Hildre
Norwegian University of Science and Technology, Ålesund, Norway

Interaction of Offshore Support Vessel with Adjacent Offshore Wind Turbine during Maintenance Operation OMAE2022-79109

Xiudi Ren¹ Longbin Tao¹ Martin Nuernberg² Iman Ramzanpoor³

1. University of Strathclyde, Glasgow, United Kingdom; 2. Newcastle Marine Services, Newcastle upon Tyne, United Kingdom; 3. Department of Naval Architecture, Ocean & Marine Engineering, Glasgow, United Kingdom

Ocean Renewable Energy

09-04-01 Hybrids and Floating Solar Energy

Monday June 6 | Room Y8 | 15:30–17:30

Session Organizer: Madjid Karimirad, Queen's University Belfast, United Kingdom

Session Co-Organizer: Arash Abbasnia, Queen's University Belfast, United Kingdom

Wind Parameters Effects on Floating Solar Array Design – Case Study: Japan's Largest Floating Solar Array OMAE2022-78762

Amir Honaryar¹ Madjid Karimirad¹ Arash Abbasnia¹ Trevor Whittaker²

1. Queen's University Belfast, Centre for Advanced Sustainable Energy (CASE), Belfast, United Kingdom; 2. Queen's University Belfast, Belfast, United Kingdom

The Development of a Time-Domain BEM to Investigate Dynamics of a Floating Solar Platform in Nonlinear Wave Regimes OMAE2022-79728

Arash Abbasnia, Madjid Karimirad, Gautam Baruah, Trevor Whittaker
Queen's University Belfast, Belfast, United Kingdom

Numerical Simulation of Nonlinear Wave Interaction with Floating Solar Platforms with Double Tubular Floaters Using Viscous Flow Model OMAE2022-79732

Gautam Baruah¹ Madjid Karimirad² Arash Abbasnia² Abdolmajid Moghtadaei² Pauline Mackinnon² Nabin Sarmah³
1. Queens University Belfast (QUB), Belfast, United Kingdom; 2. Queen's University Belfast, Belfast, United Kingdom; 3. Tezpur University, Tezpur, AS, India

Offshore Geotechnics

10-01-02 Seabed Properties and Processes II

Monday June 6 | Room Y9 | 15:30–17:30

Session Organizer: Christian Windt, Technical University of Braunschweig, Ireland

Session Co-Organizer: Pauline Kaminski, Hamburg University of Technology, Germany

Indentation Test Implementation for Rock Strength Correlation by Experimental Method and Simulation Using Distinct Element Method OMAE2022-79227

Prajit Premraj, Zijian Li, Abdelsalam Abugharara, Stephen Butt
Memorial University of Newfoundland, St. John's, NL, Canada

On the Erasing of the Cyclic Preloading by Monotonic Deformations in Granular Soils OMAE2022-79696

Andreas Wappler, Lukas Knittel, Andrzej Niemunis, Hans Henning Stutz
Institute for Soil Mechanics and Rock Mechanics - Karlsruhe Institute of Technology, Karlsruhe, Germany

Importance of Numerical Analyses to Inform Laboratory Testing for Offshore Slope Stability Assessment OMAE2022-80164

Brian Carlton¹ Hadi Suroor² Young Jae Choi³ Ragnhild Christin Hansen¹ Farrokh Nadim¹ Mudasar Saqab⁴ Amir Kaynia⁵
1. Norwegian Geotechnical Institute, Oslo, Norway; 2. TechnipFMC, Houston, TX, USA; 3. Norwegian Geotechnical Institute, Houston, TX, USA; 4. Norwegian Geotechnical Institute, Perth, WA, Australia; 5. Norwegian University of Science and Technology, Trondheim, Norway

Decline in Slope Stability as a Consequence of Gassy Soil in Submarine Slopes on the Balearic Promontory OMAE2022-81151

Pauline Kaminski¹ Jürgen Grabe¹ Morelia Urlaub² Thore Sager²
1. Hamburg University of Technology, Hamburg, Germany; 2. GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel, Germany

Petroleum Technology

11-02-02 Well Drilling Fluids and Hydraulics II

Monday June 6 | Room Y10 | 15:30–17:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Arild Saasen, University of Stavanger, Norway; Evren Ozbayoglu, University of Tulsa, USA

A Comprehensive Evaluation of Rheological Models for Non-Aqueous Drilling Fluids OMAE2022-78546

Ismail Hakki Gucuyener, Kazim Onur Gurcay, Abdussamed Yanik
GEOS Energy Inc., Ankara, Turkey

Order Reduction of a Transient Model of Viscous Pressure Loss Gradient in Laminar Flow for Non-Newtonian Fluid Flowing in Circular Pipes OMAE2022-78633

Eric Cayeux
NORCE, Stavanger, Norway

Investigation of Eccentricity on Cuttings Transport with Oil-based Drilling Fluids OMAE2022-78830

Jan David Ytrehus¹ Bjørnar Lund² Ali Taghipour² Camilo Pedrosa³ Arild Saasen⁴
1. SINTEF Petroleum, Trondheim, Norway; 2. SINTEF, Trondheim, Norway; 3. Norwegian University of Science and Technology, Trondheim, Norway; 4. University of Stavanger, Stavanger, Norway

Primary Cementing of Horizontal Wellbores with Solid Cutting Beds OMAE2022-78935

Rodrigo Mitishita, Parisa Sarmadi, Nile Waldal, Anastasia Vogl, Ian Frigaard
University of British Columbia, Vancouver, BC, Canada

Petroleum Technology

11-10-02 Development of Unconventional Reservoirs II

Monday June 6 | Room Y11 | 15:30–17:30

Session Organizer: Hadi Belhaj, Khalifa University, U.A.E.

Session Co-Organizer: Huazhou Li, University of Alberta, Canada

Investigation on Fiber Assisted Multistage Fracturing of Horizontal Well in Tight Low Permeability Sandstone Reservoirs OMAE2022-79132

Lufeng Zhang

State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms and Effective Development, Sinopec Petroleum Exploration and Production Development Research Institute, Beijing, China (Mainland)

A Novel Approach in Modelling Fluid Flow in Unconventional Reservoirs Incorporating Viscous, Inertial, Diffusion, Desorption and Advection Forces Contributions OMAE2022-79249

Mohammed Aldhuhoori, Hadi Belhaj, Bisweswar Ghosh, Hamda Alkuwaiti

Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates

Challenges in the Implementation of the Air Injection EOR Method: the Venezuelan Experience OMAE2022-79250

Fernancelys Rodriguez

Independent, Houdan, France

A Green and Environmentally Friendly Chelated Retarding Acid for Acidification of Sandstone Reservoirs OMAE2022-79271

Wei Liu¹ Qing Wang² Changfeng Xu³ Mengchuan Zhang² Xinmin Kong¹ Erdong Yao² Que Junren⁴

1. Engineering Technology Research Institute of Xinjiang Oilfield Company, Xinjiang, China (Mainland); 2. China University of Petroleum Beijing, Beijing, China (Mainland); 3. Operation District of Hutubi Gas Storage of Xinjiang Oilfield Company, Xinjiang, China (Mainland); 4. Xinjiang Oilfield Company, Karamay, China (Mainland)

Optimization of Oil Recovery and CO₂ Sequestration in Tight Reservoirs during CO₂ WAG Flooding with Hydraulic Fracture OMAE2022-81340

Baozhen Li¹ Xiaodong Kang¹ Liqi Wang² Jian Zhang² Engao Tang² Wensheng Zhou²

1. CNOOC Research Institute, Beijing, China (Mainland); 2. CNOOC Research Institute Co., Ltd, Changping District, China (Mainland)

Tuesday Concurrent Sessions

TUESDAY, JUNE 7

08:30 – 10:00

Offshore Technology

01-01-02 Offshore Platforms II

Tuesday June 7 | Room Y1 | 08:30–10:00

Session Organizer: Anil Sablok, Technip Energies, USA

Session Co-Organizer: Allan Magee, National University of Singapore, Singapore

Investigations on the Effects of Internal Liquid Sloshing of Semi-submersible

Floating Offshore Wind Turbines OMAE2022-79942

Yang Zhou, Ling Qian, Wei Bai, Zaibin Lin

Manchester Metropolitan University, Manchester, United Kingdom

Hydrodynamic Motion Behavior of Air-Cushion-Supported Hexagonal

Floating Platform for Offshore Wind Turbine OMAE2022-80564

Yining He¹ Shinichiro Hirabayashi¹ Shigeru Tabeta¹ Toshio Nakajima² Yoshihiko Yamashita³ Yuuki Yamashita⁴ Motoko Imai⁴

1. The University of Tokyo, Kashiwa, Japan; 2. Waterfront Real Estate Co, Nishinomiya, Japan; 3. Waterfront Real Estate Co., Tokyo, Japan; 4. Business Strategy Promotion Division, Chodai Co., Tokyo, Japan

State of the Art in New Semisubmersible Platform Concepts OMAE2022-81085

Tianying Wang, Qing Cui

Drilling Technology Research Institute, Sinopec Shengli Oilfield Service Corporation, Dongying, China, Dongying, China (Mainland)

Vessel-Less Underwater Inspection at Fixed Offshore Structure by Utilizing

Mini Remotely Operated Vehicle (Mini-ROV) OMAE2022-81373

Dave Chen Lung Chong¹ Ave Suhendra Suhaili¹ Sok Mooi Ng² W Hariz Fadli W Shafie²

Biramarta Isnadi² Riaz Khan² Kheng Hoong Lau² Nurzarina Hassan³ M Faqruddin B Ismail³

1. PETRONAS CARIGALI SDN BHD, Kota Kinabalu, Malaysia; 2. PETRONAS CARIGALI SDN BHD, Kuala Lumpur, Malaysia; 3. PETRONAS, Kuala Lumpur, Malaysia

Structures, Safety and Reliability

02-01-01 Abnormal Waves

Tuesday June 7 | Room Hall E | 08:30–10:00

Session Organizer: Elzbieta Maria Bitner-Gregersen, DNV/Ocean Wave Research, Norway

Session Co-Organizer: Alexander Babanin, University of Melbourne, Australia

Freak Wave Forecasting: a Data-driven Approach OMAE2022-78557

Thomas Breunung, Balakumar Balachandran

University of Maryland, College Park, College Park, MD, USA

A Reduced Order Parameterization of Random Wave Fields with Deterministic Wave Groups OMAE2022-80636

Tianning Tang, Thomas Adcock

University of Oxford, Oxford, United Kingdom

Shallow Water Nonlinear Waves: Their Wave Equations, Quasiperiodic Fourier

Series Solutions and Statistical Distributions OMAE2022-81191

Alfred Osborne¹ Uggo F. De Pinho² Børge Kvindedal² Gunnar Lian²

1. Nonlinear Waves Research Corporation, Alexandria, VA, USA; 2. Equinor ASA, Stavanger, Norway

Waves Heights Statistics and Characterization of Rogue Waves in the Eastern Mediterranean OMAE2022-78564

Dan Liberzon¹ Sagi Knobler¹ Daniel Bar¹ Rotem Cohen²

1. The Technion - Israel Institute of Technology, Haifa, Israel; 2. The Israeli Coastal and Marine Engineering Research Institute, Haifa, Israel

Structures, Safety and Reliability

02-10-01 Collision and Crashworthiness I

Tuesday June 7 | Room Hall F | 08:30–10:00

Session Organizer: Sören Ehlers, Hamburg University of Technology, Germany

Session Co-Organizer: Zhiqiang Hu, Newcastle University, United Kingdom

A Semi-analytical Methodology to Assess the Dynamic Elastic Response of a Monopile Offshore Wind Turbine Subjected to Low-energy Ship Impacts OMAE2022-79672

Icaro Ladeira¹ Hervé Le Sourné¹ Jonathan Alexander Morán Arellano² Lissette Priscilla Salazar Loo²

1. Institut Catholique d'Arts et Metiers, Nantes, France; 2. University of Liège - ANAST, Liège, Belgium

Rapid Assessment of Ship Bottom Grounding Damage considering Combined Surge and Heave Motion OMAE2022-80209

Jean-Philippe Pineau, Hervé Le Sourné

ICAM, Carquefou, France

Aspects of Collision Response of Long-span Floating Bridges OMAE2022-81112

Martin Storheim¹ Cato Dørum²

1. Entail AS, Oslo, Norway; 2. Norwegian Public Road Administration, Hamar, Norway

Dynamic Analysis of Collision between Two Floating Bodies considering Hydrodynamic Loads OMAE2022-81221

Burak Can Cerik, Joonmo Choung

Inha University, Incheon, Korea

Materials Technology

03-03-01 Integrity Assessment and Life Extension

Tuesday June 7 | Room Hall D | 08:30–10:00

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Semisubmersible in Service Experiences on the Norwegian Continental Shelf OMAE2022-81289

Gerhard Ersdal, Marita Halsne, Narve Oma, Terje L. Andersen, Morten Langøy, Lars G. Bjørheim

PSA, Stavanger, Norway

Sensor Data for Maintenance Planning of Topside Piping OMAE2022-81319

Agnes Horn¹ Frode Wiggen² Sandra Gustafsson³

1. DNV, Snarøya, Norway; 2. DNV, Stavanger, Norway; 3. Petroliumtilsynet, Stavanger, Norway

Pipeline, Risers, and Subsea Systems

04-01-03 Flexible Pipes and Umbilicals III

Tuesday June 7 | Room Y2 | 08:30–10:00

Session Organizer: Zhimin Tan, Baker Hughes, USA

Session Co-Organizers: Jun Yan, Dalian University of Technology, China (Mainland); José Renato Mendes De Sousa, Federal University of Rio de Janeiro, Brazil; Theodoro Netto, Fundacao Copetec, Brazil; Duane DeGeer, Intecsea, USA; Anh Tuan Do, TechnipFMC, France; Alan Dobson, TechnipFMC, United Kingdom

Three-dimensional Finite Element Models of a Flexible Pipe Interlocked Carcass under Bending OMAE2022-78599

Fernando Geremias Toni, Clóvis De Arruda Martins, Rodrigo Provasi

University of São Paulo, São Paulo, SP, Brazil

Axial In-Place Behaviour of Unbonded Flexible Pipes OMAE2022-78959

Kristian Norland¹ Anders A. Larsen² Dorthe De La Cour² Henrik Ø. Larsen² Tommy Pedersen² Morten Eriksen²

1. Subsea 7, Stavanger, Norway; 2. NOV, Brøndby, Denmark

Axial Stiffness and Expansion Behaviour of a Flexible Flowline for Various Extents of Axial Restraint when Subject to Pressure and Thermal Loads OMAE2022-79008

Knut Tørnes¹ Ruairi Nestor² Kristian Thuen³ John Picksley⁴ Adrian Connaire² Bård Owe Bakken³
1. Winterhall Dea / Wood, Inverurie, United Kingdom; 2. Wood, Galway, Ireland; 3. Wintershall Dea, Stavanger, Norway; 4. Wood, Aberdeen, United Kingdom

Analytical Model for Non-bonded Flexible Pipe under High Temperature and Axisymmetric Load and Its Application in Upheaval Buckling OMAE2022-81293

Chen Kungpeng, Zhang Mengmeng, Zhao Bing, Luo Chunmiao, Fu Shixiao
Shanghai Jiao Tong University, Shanghai, China (Mainland)

Ocean Engineering

06-02-02 Coastal Engineering II

Tuesday June 7 | Room Y4 | 08:30–10:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Yuzhu Pearl Li, National University of Singapore, Denmark; Kuang-An Chang, Texas A&M University, USA; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil

Shallow Water Equations with Semi-submerged Structures Solving a Poisson Equation for the Pressure on the Structure Surface OMAE2022-79603

Luiz André Schiaveto Neto¹ Paulo César Colonna Rosman² Eduardo Aoun Tannuri¹
1. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Paulo, SP, Brazil; 2. Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

On the Calibration of Metocean Time Series Using Machine Learning OMAE2022-80274

Francois Enet, Olga Podrazka, Laury Renac
Aktis Hydraulics, Zwolle, Netherlands

Analysis of Structures in Very Shallow Water: CFD Analysis of Wave Propagation and Breaking Waves OMAE2022-80770

Magnus Johannesen, Øystein Lande
DNV, Oslo, Norway

Ocean Engineering

06-04-01 Marine Engineering and Technology I

Tuesday June 7 | Room Y3 | 08:30–10:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Ulisses A. Monteiro, Fundacao Coppetec, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Luiz Vaz, Universidade Federal do Rio de Janeiro, Brazil

Life Cycle Assessment of Different Marine Fuel Types and Powertrain Configurations for Financial and Environmental Impact Assessment in Shipping OMAE2022-78774

Hadi Taghavifar, Lokukaluge Prasad Perera
UiT The Arctic University of Norway, Tromsø, Norway

Data Driven Digital Twin Applications towards Green Ship Operations OMAE2022-78775

Mahmood Taghavi, Lokukaluge Perera
UiT The Arctic University of Norway, Tromsø, Norway

Life-cycle Cost Analysis on a Marine Engine Innovation for Retrofit: a Comparative Study OMAE2022-79488

Khanh Bui¹ Lokukaluge Prasad Perera¹ Jan Emblemsvåg² Halvor Schøyen³
1. UiT The Arctic University of Norway, Tromsø, Norway; 2. NTNU Norwegian University of Science and Technology, Ålesund, Norway; 3. University of South-Eastern Norway, Horten, Norway

Advanced Data Analytics Based Hybrid Engine-Propeller Combinator Diagram for Green Ship Operations OMAE2022-79490

Lokukaluge P. Perera¹ Kostas Belibassakis² Evangelos Filippas² Maneesha N. Premasiri³
1. SINTEF Ocean, Trondheim, Norway; 2. National Technical University of Athens, Athens, Greece; 3. University of Münster, Münster, Germany

Polar and Arctic Sciences and Technology

07-02-01 Arctic Sea Transportation

Tuesday June 7 | Room Y5 | 08:30–10:00

Session Organizer: Marc Cahay, Technip Energies, France

Session Co-Organizer: Rüdiger U. Franz von Bock und Polach, TUHH, Germany

An Evaluation of Decision Support Technology in Simulated Offshore Ice Management OMAE2022-78097

Jonathan Soper¹ Jennifer Smith² Jonathan Power³ Brian Veitch¹

1. Memorial University of Newfoundland, St. John's, NL, Canada; 2. Marine Institute, St. John's, NL, Canada; 3. National Research Council, St. John's, NL, Canada

Assessment of Uncertainty in Sea Ice Charts and Its Impact on Operational Planning in the Kara Sea Region OMAE2022-79051

Nabil Panchi¹ Uttam Verma² Ekaterina Kim¹ Nick Hughes³ Anirban Bhattacharyya²

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. Indian Institute of Technology Kharagpur, Kharagpur, WB, India; 3. Norwegian Meteorological Institute, Tromsø, Norway

Big Data Analytics for Assistance Operation Identification in Ice-covered Waters OMAE2022-80925

Cong Liu¹ Mashrura Musharraf¹ Pentti Kujala¹ Jarkko Toivola²

1. Aalto University, Espoo, Finland; 2. Vöylävirasto, Helsinki, Finland

Knowledge Elicitation and Digitization Using FRAM to Inform

Automation of Marine Operations in Ice OMAE2022-80904

Mashrura Musharraf¹ Doug Smith² Jennifer Smith³ Brian Veitch²

1. Aalto University, Espoo, Finland; 2. Memorial University of Newfoundland, St. John's, NL, Canada; 3. Fisheries and Marine Institute of Memorial University of Newfoundland, St. John's, NL, Canada

CFD and VIV

08-04-02 Ship Design

Tuesday June 7 | Room Y6 | 08:30–10:00

Session Organizer: Guilherme Vaz, blueOASIS, Portugal

Session Co-Organizer: Owen Oakley, Retired, USA

Propulsive Performance of a Novel Crescent-Shaped Wind Sail Analyzed with Unsteady RANS OMAE2022-79867

Heng Zhu¹ Melisa Begüm Nikmanesh¹ Huadong Yao¹ Bengt Ramne² Jonas Ringsberg¹

1. Chalmers University of Technology, Gothenburg, Sweden; 2. ScandiNAOS AB, Gothenburg, Sweden

Study on the Effect of Twin Bow Shape on Ship Resistance Performance OMAE2022-78951

Chao Lu¹ Han Xiang² Dakui Feng² Weihua Deng²

1. China Ship Development and Design Center, Wuhan, China (Mainland); 2. School of Naval Architecture and Ocean Engineering, Huazhong University of Science and Technology, Wuhan, China (Mainland)

Analysis of Interference Characteristics of a Boat in Chasing a Large Ship OMAE2022-79768

Weihua Deng, Jiawei Yu, Dakui Feng, Han Xiang, Chaobang Yao

Huazhong University of Science and Technology, Wuhan, China (Mainland)

Full-Scale Unsteady RANS Simulations of a 5500DWT Self-Propulsion Tanker OMAE2022-79772

Bin Ye, Jiawei Yu, Zhiguo Zhang, Xin Long, Dakui Feng

Huazhong University of Science and Technology, Wuhan, China (Mainland)

Ocean Renewable Energy

09-01-04 FWT Structural Dynamics I

Tuesday June 7 | Room Y7 | 08:30–10:00

Session Organizer: Zhengshun Cheng, Shanghai Jiao Tong University, China (Mainland)

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Conceptual Design of a Prestressed Concrete Spar Floater Supporting a 10 MW Offshore Wind Turbine OMAE2022-78808

Wichuda Munbua¹ Muhammad Sohail Hasan¹ Edgard Borges Malta² Goncalves Rodolfo³ Chikako Fujiyama¹ Koichi Maekawa¹
1. Yokohama National University, Yokohama, Japan; 2. Technomar Engenharia LTD, Pinheiros, SP, Brazil; 3. The University of Tokyo, Bunkyo-ku, Japan

Influence of the Semi-Submersible Platform Flexibility on the Dynamic Response of the Wind Turbine OMAE2022-79124

Sofya Sizova, Elise Maillot, Suzanne Moreau, Marie Féron
DORIS Engineering, Paris, France

FRyFAST : A Coupling between FRyDoM and OpenFAST for the Simulation of Floating Offshore Wind Turbines with High Complexity Platforms OMAE2022-79155

Camille Chauvigné, Lucas Letournel, François Rongère, Pierre-Yves Wuillaume, Natalia Castro Casas, Benjamin Maréchal, Sofien Kerkeni
D-Ice Engineering, Nantes, France

Transferability of Meta-model Configurations for Different Wind Turbine Types OMAE2022-79698

Franziska Müller, Clemens Hübler, Raimund Rolfes
Leibniz University Hannover, Institute of Structural Analysis, ForWind, Hannover, Germany

Ocean Renewable Energy

09-02-02 Techno-economic Modeling of WEC

Tuesday June 7 | Room Y8 | 08:30–10:00

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizers: Masoud Hayatdavoodi, University of Dundee, United Kingdom

The Application of the Spectral Domain Modeling to the Techno-Economic Analysis of the Adjustable Draft Point Absorbers OMAE2022-79119

Jian Tan, Antonio Jarquin Laguna, Henk Polinder, Sape Miedema
Delft University of Technology, Delft, Netherlands

Performance Modelling of Flap-type Wave Energy Converter Array:

Flaps with Various Dynamic Characteristics OMAE2022-79869

Saghy Saeidtehrani, George Lavidas
Delft University of Technology, Delft, Netherlands

Minimizing Cost in a 100% Renewable Electricity Grid: a Case Study of Wave Energy in California OMAE2022-80731

Ryan Coe¹ George Lavidas² Giorgio Bacelli¹ Peter Kobos¹ Vincent Neary¹
1. Sandia National Laboratories, Albuquerque, NM, USA; 2. TU Delft, Delft, Netherlands

Wave Energy Converter Optimal Design under Parameter Uncertainty OMAE2022-81464

Filippo Giorcelli¹ Sergej Antonello Sirigu¹ Edoardo Pasta¹ Daniele Giovanni Gioia² Mauro Bonfanti¹ Giuliana Mattiazzo³
1. MOREnergy Lab, Politecnico di Torino, Torino, Italy; 2. Department of Mathematical Sciences, DISMA, Politecnico di Torino, Torino, Italy; 3. MOREnergy Lab, DIMEAS, Politecnico di Torino, Torino, Italy

Offshore Geotechnics

10-02-01 Piles

Tuesday June 7 | Room Y9 | 08:30–10:00

Session Organizer: Benjamin Cerfontaine, University of Southampton, United Kingdom

Session Co-Organizer: Anne Stark, Hamburg University of Technology, Germany

Experimental and Numerical Studies on the Axial Bearing Behaviour of a Pile Due to Relevant Foundation Fill Material on the Coastal Tidal Flat OMAE2022-79769

Juntian Yao¹ Kanmin Shen² Kuanjun Wang² Jian Yu¹ Maosong Huang¹

1. Tongji University, Shanghai, China (Mainland); 2. Powerchina Huadong Engineering Corporation Limited, Hangzhou, China (Mainland)

On the Validity of Miner's Rule and Its Application in Offshore Pile Design Practice OMAE2022-81150

Anne Stark, Sebastian Breidenstein, Jürgen Grabe

Hamburg University of Technology, Hamburg, Germany

Calibration for Interpretation Parameter Nkt of CPTU in Offshore Wind Farm at Coast Area of the Mekong River Delta OMAE2022-79090

Kuanjun Wang, Gang Liu, Kanmin Shen, Shan Gao

PowerChina Huadong Engineering Corporation Limited, Hangzhou, China (Mainland)

Petroleum Technology

11-02-03 Well Drilling Fluids and Hydraulics III

Tuesday June 7 | Room Y10 | 08:30–10:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Arild Saasen, University of Stavanger, Norway; Evren Ozbayoglu, University of Tulsa, USA

The Role of Particle Size Distribution for Fluid Loss Materials on Formation of Filter-Cakes and Avoiding Formation Damage OMAE2022-79501

Karl Ronny Klungtvedt¹ Arild Saasen²

1. EMC, Sandnes, Norway; 2. University of Stavanger, Gullaug, Norway

Comparison of Lost Circulation Material Sealing Effectiveness in Water-Based and Oil-Based Drilling Fluids and under Conditions of Mechanical Shear and High Differential Pressures OMAE2022-79502

Karl Ronny Klungtvedt¹ Arild Saasen²

1. EMC, Sandnes, Norway; 2. University of Stavanger, Gullaug, Norway

Development of Guar Gum Fracturing Fluid with Temperature Resistance of 150°C and Specific Gravity of 1.0~1.2g/m³ OMAE2022-79610

Meng Xue¹ Liyan Zhu² Yongchang Zhao¹ Zhishuo Chen² Waili Abulimiti³ Er-dong Yao⁴

1. Engineering Technology Research Institute of PetroChina Xinjiang Oilfield Company, Karamay, China (Mainland); 2. China University of Petroleum Beijing, Unconventional Petroleum Research Institute, Beijing, China (Mainland); 3. Technology Research Institute of PetroChina Xinjiang Oilfield Company, Karamay, China (Mainland); 4. China University of Petroleum China, Beijing, China (Mainland)

Activation of Local Bentonite for Oil and Gas Industry Application OMAE2022-81446

Abdullah Al-Yami, Ali Al-Safran

Saudi ARAMCO, Dhahran, Saudi Arabia

Petroleum Technology

11-12-01 Sustainability and Green Transition in Petroleum Industry I

Tuesday June 7 | Room Y11 | 08:30–10:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Jan David Ytrehus, SINTEF Petroleum, Norway

Development of Low Carbon Dioxide Intensive Rock-Based Geopolymers for Well Cementing Applications – One-Part Geopolymer OMAE2022-78535

Mohamed Omran, Mahmoud Khalifeh

University of Stavanger, Stavanger, Norway

Offshore Energy Hubs in the Decarbonisation of the Norwegian Continental Shelf OMAE2022-78551

Hongyu Zhang¹ Asgeir Tomasgard¹ Brage Rugstad Knudsen² Ignacio E. Grossmann³

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF Energy Research, Trondheim, Norway; 3. Carnegie Mellon University, Pittsburgh, PA, USA

Dynamic Reservoir Behaviour and Production Due to Periodic Supply of Wind Power OMAE2022-78790

Per Eirik Strand Bergmo¹ Torleif Holt¹ Jan Ole Skogestad²

1. SINTEF AS, Trondheim, Norway; 2. SINTEF AS, Bergen, Norway

Operational Planning and Power Management System for Offshore Platform with Wind Energy Supply – Impacts on CO₂ Reduction and Power Quality OMAE2022-78802

Harald G Svendsen¹ Andrzej Holdyk¹ Til Kristian Vrana¹ Idun Runde Mosgren² Jan Wiik²

1. SINTEF Energy Research, Trondheim, Norway; 2. ABB AS, Oslo, Norway

Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

12-02-01 Extreme Waves and their Impact on Ships and Structures

Tuesday June 7 | Room Y12 | 08:30–10:00

Session Organizer: Marco Klein, Hamburg University of Technology, Germany

Session Co-Organizer: Sascha Kosleck, University of Rostock, Germany

Wave Riding through Time – The Contributions of Günther F. Clauss to the Field of Ocean Wave Research OMAE2022-79170

Florian Sprenger¹ Sascha Kosleck¹ Marco Klein²

1. Universität Rostock, Rostock, Germany; 2. Hamburg University of Technology, Hamburg, Germany

Observation of a Giant Nonlinear Wave-Packet on the Surface of the Ocean OMAE2022-78334

Miguel Onorato¹ Pierre Suret² Stephane Randoux² Marta de Alfonso³ Alvisé Benetazzo⁴

1. University of Torino, Torino, Italy; 2. Université de Lille, CNRS, UMR 8523 - PhLAM - Physique des Lasers Atomes et Molécules, Lille, France; 3. Puertos del Estado., Madrid, Spain; 4. ISMAR, Venezia, Italy

Linear and Nonlinear Rogue Waves. Short Crestedness and Nonplanar Nonlinear Solutions OMAE2022-78569

Norbert Hoffmann

Hamburg University of Technology, Hamburg, Germany

Analysis of the Experimental Data of Slamming Loads on an LNG Carrier in Abnormal Waves OMAE2022-79037

Shan Wang, Carlos Guedes Soares

Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal

CONCURRENT SESSIONS

10:30 – 12:00

Offshore Technology

01-03-01 Hydrodynamics

Tuesday June 7 | Room Y1 | 10:30–12:00

Session Organizer: Longbin Tao, University of Strathclyde, United Kingdom

Session Co-Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Validation of Measurement Techniques Used for Slamming OMAE2022-79068

Ole David Økland¹ Gunnar Lian² Tone Vestbøstad²

1. SINTEF Ocean, Trondheim, Norway; 2. Equinor ASA, Stavanger, Norway

Experimental Investigation of Slamming Loads on Vertical Column

Exposed to Short and Long Crested Waves OMAE2022-79076

Ole David Økland¹ Gunnar Lian² Tone Vestbøstad²

1. SINTEF Ocean, Trondheim, Norway; 2. Equinor ASA, Stavanger, Norway

Hydrodynamic Coefficients of Generic Subsea Modules in Forced Oscillation Tests –

Importance of Structure Parts OMAE2022-79718

Mia Abrahamsen Prsic¹ Frøydis Solaas¹ Trygve Kristiansen²

1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway

Importance of the Inertial Components in Modal State Covariances OMAE2022-78644

Margaux Geuzaine¹ Aksel Fenerci² Øiseth Ole³ Vincent Denoël⁴

1. University of Liège, Beaufays, Belgium; 2. Norwegian University of Science and Technology, Ålesund, Norway; 3. Norwegian University of Science and Technology, Gløshaugen, Norway; 4. University of Liège, Liège, Belgium

Structures, Safety and Reliability

02-01-02 Extreme Waves

Tuesday June 7 | Room Hall E | 10:30–12:00

Session Organizer: Carlos Guedes Soares, IST, University of Lisbon, Portugal

Session Co-Organizer: Yutaka Ohta, Waseda University, USA

The Global Distribution of Extreme Value Significant Wave Height OMAE2022-79587

Ian Young, Alberto Meucci, Alicia Takbash

University of Melbourne, Melbourne, VIC, Australia

Storm Models for the Calculation of Extreme Wind Speed OMAE2022-81323

Valentina Laface, Felice Arena, Alessandra Romolo

Mediterranea University of Reggio Calabria, Reggio Calabria, Italy

Analysis of Wave Fields during Ship Accidents in the North-Western Mediterranean OMAE2022-78661

Alessio Innocenti¹ Gianni Messeri² Miguel Onorato³ Carlo Brandini²

1. Consorzio Lamma, Sesto Fiorentino, Italy; 2. Institute for Bioeconomy, National Research Council of Italy (CNR-IBE) - Consorzio Lamma, Sesto Fiorentino, Italy; 3. Università di Torino, Torino, Italy

Structures, Safety and Reliability

02-10-02 Collision and Crashworthiness II

Tuesday June 7 | Room Hall F | 10:30–12:00

Session Organizer: Zhiqiang Hu, Newcastle University, United Kingdom

Session Co-Organizer: Sören Ehlers, Hamburg University of Technology, Germany

Numerical Investigations on Plastic Responses of Strain-Rate Sensitive Panels under the Lateral Impact OMAE2022-78746

Hongyu Zhou, Deyu Wang

Shanghai Jiao Tong University, Shanghai, China (Mainland)

Numerical Simulation of Dynamic and Static Mechanical Response of Sinusoidal Sandwich Structure OMAE2022-79142

Houqi Yao, Jia Qu

College of Aerospace and Civil Engineering, Harbin Engineering University, Harbin, China (Mainland)

Discretization Challenges in Crash Simulations: Mesh, Geometry and Failure Criterion Effects from the Energy Perspective OMAE2022-79655

Okko Coppejans, Noud Werter

TNO, Delft, Netherlands

Risk Assessment of Collision between Dynamically Positioned Vessel and Offshore Installation OMAE2022-78952

Haibo Chen¹ Bjørn Nygård² Nils Hasund¹

1. Vysus Group Norway, Oslo, Norway; 2. Equinor, Oslo, Norway

Materials Technology

03-04-01 Environmental Effect on Materials Performance

Tuesday June 7 | Room Hall D | 10:30–12:00

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Fracture Toughness Characterization of LSAW UOE Pipes in Sour Media and Implications on Burst Pressure OMAE2022-79322

Sebastian Cravero¹ Mariano Coloschi¹ Martín Valdez¹ Fabio Arroyo² Philippe Darcis³

1. Tenaris, Campana, Argentina; 2. Tenaris, Pindamonhangaba, SP, Brazil; 3. Tenaris, Bergamo, Italy

Quantification of Pitting and Stress Concentration Factors on Steel Coupons Exposed to Seawater in the North Sea OMAE2022-79458

Philippe Thibaux¹ Cedric Vanden Haute²

1. OCAS, Gent, Belgium; 2. Parkwind, Leuven, Belgium

Effect of Temperature on Resistance to Hydrogen Embrittlement of Dissimilar Metal Welds Subjected to SENB and SENT Testing OMAE2022-79852

Michael Dodge¹ Lars Magne Haldorsen² Mike Gittos¹ Kasra Sotoudeh¹

1. TWI Ltd, Cambridge, United Kingdom; 2. Equinor ASA, Stavanger, Norway

The Role of Surface Roughness on Pitting Corrosion Initiation in Nickel Aluminium Bronzes in Air OMAE2022-80997

Tamsin Dobson¹ Nicolas Larrosa¹ Saurabh Kabra² Harry Coules¹

1. University of Bristol, Bristol, United Kingdom; 2. Science and Technology Facilities Council (STFC), Didcot, United Kingdom

Pipeline, Risers, and Subsea Systems

04-01-04 Flexible Pipes and Umbilicals IV

Tuesday June 7 | Room Y2 | 10:30–12:00

Session Organizer: Zhimin Tan, Baker Hughes, USA

Session Co-Organizers: Jun Yan, Dalian University of Technology, China (Mainland); José Renato Mendes De Sousa, Federal University of Rio de Janeiro, Brazil; Theodoro Netto, Fundacao Coppetec, Brazil; Duane DeGeer, Intecsea, USA; Anh Tuan Do, TechnipFMC, France; Alan Dobson, TechnipFMC, United Kingdom

Smooth Carcass for Flexible Pipe – Field Case Study OMAE2022-81285

Jeremie Barbier¹ Cyril Holyst² Renaud Phelut¹ Eric Tran²

1. TechnipFMC Plc, le trait, France; 2. TechnipFMC plc, Perth, WA, Australia

Cross Section Analysis of Flexible Risers Including Composite Layers OMAE2022-81326

Geir Skeie, Nils Sødahl, Dag McGeorge

DNV, Hovik, Norway

Ocean Engineering

06-04-02 Marine Engineering and Technology II

Tuesday June 7 | Room Y4 | 10:30–12:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Ulisses A. Monteiro, Fundacao Coppetec, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Luiz Vaz, Universidade Federal do Rio de Janeiro, Brazil

The Comparison of Two Kinematic Motion Models for Autonomous Shipping Maneuvers OMAE2022-79583

Yufei Wang, Lokukaluge Prasad Perera, Bjørn-Morten Batalden

The University of Tromsø – The Arctic University of Norway, Department of Technology and Safety, Tromsø, Norway

A Study on Safer New Optimal Route for Anti-collision in Coastal Waters OMAE2022-79685

Won-Ouk Kim¹ Song-Jin Kang¹ Young-Rong Kim² Chang-Je Kim³

1. Korea Institute of Maritime and Fisheries Technology, Busan, Korea; 2. Department of Marine Technology, Norwegian University of Science and Technology, Trondheim, Norway; 3. Division of Navigation Convergence Studies, Korea Maritime and Ocean University, Busan, Korea

Spray Icing on ONEGA Vessel – a Comparison of Liquid Water Content Expressions OMAE2022-79919

Sushmit Dhar, Eirik Mikal Samuelsen, Masoud Naseri, Karl Gunnar Aarsæther, Kåre Edvardsen

UiT The Arctic University of Norway, Tromsø, Norway

Composite Propellers Showing Passive Automatic Bend Twist Characteristics by Combining Several Design Concepts OMAE2022-80646

Sondre Ø. Rokvam, Andreas T. Echtermeyer

Norwegian University of Science and Technology, Trondheim, Norway

Ocean Engineering

06-05-01 Marine Hydrodynamics I

Tuesday June 7 | Room Y3 | 10:30–12:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Shuzheng Sun, Harbin Engineering University, China (Mainland); Sanne Van Essen, MARIN, Netherlands; Lin Li, UIS, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

Machine Learning Based Prediction of Wave-induced Vessel Response OMAE2022-78261

Ali Cetin¹ Vegard R. Solum¹ Cristina Evans²

1. 4Subsea, Asker, Norway; 2. Subsea7, Westhill, United Kingdom

Design of the Propulsion System for the Autonomous XLUUV MUM OMAE2022-78583

Martin Greve¹ Martin Kurowski² Sebastian Ritz³ Matthias Golz³

Lakshmi Narasiman Vijayasarithi³ Nursen Bayazit³ Erik Rentzow²

1. Thyssenkrupp Marine Systems, Kiel, Germany; 2. Universität Rostock, Institut für Automatisierungstechnik, Rostock, Germany; 3. Technische Universität Berlin, Institut für Land- und Seeverkehr, FG Entwurf und Betrieb Maritimer Systeme, Berlin, Germany

Nonlinear Hydrostatic Restoring Characteristics of a Spar Floating Wind Turbine OMAE2022-78799

Zhengyang Pang¹ Aichun Feng¹ Zhiyu Jiang² Amrit Shankar Verma³ Ke Chen¹

1. Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. University of Agder, Grimstad, Norway; 3. The University of Maine, Orono, ME, USA

Estimation of Hydrodynamic Forces on Cylinders Undergoing Flow-induced Vibrations Based on Modal Analysis OMAE2022-78925

Guang Yin, Marek Janocha, Muk Chen Ong

University of Stavanger, Stavanger, Norway

Identification and Investigation of Extreme Events on Marine Structures Using ALE Approach and Hydrodynamic Coupling of Navier Stokes- and Laplace Equation-based Models OMAE2022-79036

Arun Kamath¹ Tobias Martin¹ Weizhi Wang¹ Csaba Pakozdi² Hans Bihs¹

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF Ocean, Trondheim, Norway

Polar and Arctic Sciences and Technology

07-03-01 Vessels in Ice – Loads

Tuesday June 7 | Room Y5 | 10:30–12:00

Session Organizer: Gesa Ziemer, DLR, Germany

Session Co-Organizer: Walter Kuehnlein, terra.blue, Germany

Effect of Floe Field Properties on Ice Loads on Ship Hull in Three-dimensional Discrete Element Simulations OMAE2022-81054

Jukka Tuhkuri¹ Hanyang Gong² Arttu Polojärvi¹

1. Aalto University, Espoo, Finland; 2. Aker Arctic Technology Inc., Helsinki, Finland

Safety Distance during Escort and Convoy Based on Channel

Breakout Simulation and Model Tests OMAE2022-79206

Fang Li¹ Otto Puolakka¹ Floris Goerlandt² Pentti Kujala¹

1. Aalto University, Espoo, Finland; 2. Dalhousie University, Halifax, NS, Canada

On the Structural Analysis of Icebreakers Due to Ramming of First-Year Ice Ridges OMAE2022-79661

Weidong Zhao¹ Bernt Johan Leira² Knut Vilhelm Høyland² Ekaterina Kim² Guoqing Feng³ Zhanyang Chen¹ Hongbin Gui¹

1. Harbin Institute of Technology, Weihai, China (Mainland); 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Harbin Engineering University, Harbin, China (Mainland)

On Design Parameters for Accidental Ice Loading on Ship Hulls OMAE2022-81304

Wei Chai¹ Bernt Leira² Gowtham Radhakrishnan²

1. Wuhan University of Technology, Wuhan, China (Mainland); 2. NTNU, Department of Marine Technology, Trondheim, Norway

CFD and VIV

08-04-04 Advanced Analytics

Tuesday June 7 | Room Y6 | 10:30–12:00

Session Organizer: Guilherme Vaz, blueOASIS, Portugal

Session Co-Organizers: Yiannis Constantinides, Chevron, USA; Owen Oakley, Retired, USA

Physics-informed Neural Network with Numerical Differentiation for Modelling Complex Fluid Dynamic Problems OMAE2022-81237

My Ha Dao, Pao-Hsiung Chiu, Jian Cheng Wong, Chin Chun Ooi

Institute of High Performance Computing, Singapore, Singapore

CFDwavemaker: an Open-source Library for Efficient Generation of Higher Order Wave Kinematics OMAE2022-81272

Øystein Lande¹ Jens Bloch Helmers²

1. DNVGL, Høvik, Norway; 2. DNV, Høvik, Norway

Ocean Renewable Energy

09-01-05 FWT Structural Dynamics II

Tuesday June 7 | Room Y7 | 10:30–12:00

Session Organizer: Zhengshun Cheng, Shanghai Jiao Tong University, China (Mainland)

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Dynamic Response Analysis of a Novel Semi-submersible Floating Offshore Wind Turbine Based on Different Mooring System Designs OMAE2022-80585

Zhixin Zhao¹ Wenhua Wang¹ Wei Shi¹ Xin Li¹ Bin Wang²

1. State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, Dalian, China (Mainland);

2. Renewable Energy Engineering Institute, Power China Huadong Engineering Corporation Limited, Hangzhou, China (Mainland)

Platform Motion Forecast of Hywind Floating Offshore Wind Turbine Based on SADA Method and Full-Scale Measurement Data OMAE2022-79735

Peng Chen, Zhiqiang Hu

Newcastle University, Newcastle upon Tyne, United Kingdom

Experimental and Numerical Investigation on the Dynamic Response of Platform for a Spar-type Floating Wind Turbine under Aerodynamic and Hydrodynamic Forces OMAE2022-81290

Baoxuan Wang¹ Xu Liang² Xue Jiang³

1. Zhejiang University, Hangzhou, China (Mainland); 2. Zhejiang University, Zhoushan,

China (Mainland); 3. Zhejiang Ocean University, Glasgow, United Kingdom

Ocean Renewable Energy

09-02-03 WEC Performance Analysis

Tuesday June 7 | Room Y8 | 10:30–12:00

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Accurate WEC Power Estimation for Multi-modal Wave Spectra OMAE2022-81155

Kourosh Parsa, Mark Kim, Neil Williams

Ocean Power Technologies, Inc., Monroe Township, NJ, USA

A Novel Zero-discharge Supercritical Water-based Wave Energy Desalination System OMAE2022-78191

Faete Filho¹ Gabriel Glosson¹ Jason Mcmorris¹ Tarek Abdel-Salam¹ Kurabachew Duba¹ Thanh Toan Tran² Salman Husain²

1. East Carolina University, Greenville, NC, USA; 2. National Renewable Energy Laboratory, Golden, CO, USA

The Influence of Different Configurations and Spacings on the Performance of Oscillating Wave Surge Converters when Operating in Wave Farms OMAE2022-80110

Daniela Benites Munoz¹ Luofeng Huang² Giles Thomas¹

1. University College London, London, United Kingdom; 2. Cranfield University, London, United Kingdom

Input-Unknown Estimation for Arrays of Wave Energy Conversion Systems via LTI Synthesis OMAE2022-81361

Guglielmo Papini¹ Pasta Edoardo¹ Nicolás Faedo¹ Bruno Paduano² Giuliana Mattiazzo²

1. MOREnergy Lab, Politecnico di Torino, Turin, Italy; 2. Politecnico di Torino, Turin, Italy

Offshore Geotechnics

10-04-01 Bucket, Gravity Foundations and Caissons

Tuesday June 7 | Room Y9 | 10:30–12:00

Session Organizer: Giuseppe Abbiati, Aarhus University, Denmark

Session Co-Organizer: Brian Carlton, Norwegian Geotechnical Institute, Norway

On the Influence of the Soil Stratigraphy on the Monopile Deflection Investigated with FEM in a PISA Framework OMAE2022-79329

Manuela Kanitz¹ Carlos Molina Mesa² Luís Berenguer Todo Bom¹ Jan Dührkop¹

1. Ramboll, Hamburg, Germany; 2. Ramboll, Copenhagen, Denmark

A Computational Framework for Integrated Analysis and Hybrid Testing of Mooring Line Foundations OMAE2022-79853

Giuseppe Abbiati¹ Andrea Franza² Zili Zhang² Lars Vabbersgaard Andersen² Hans Henning Stutz³

1. Aarhus University, Aarhus, Denmark; 2. Aarhus University, Department of Civil and Architectural Engineering, Aarhus C, Denmark; 3. Karlsruhe Institute of Technology, Institute of Soil Mechanics and Rock Mechanics, Karlsruhe, Germany

Potential and Consequences of Earthquake Induced Liquefaction under a Gravity Based Structure OMAE2022-80169

Brian Carlton¹ Patrick Lee² Filippo Belloni³ Amir Kaynia⁴

1. Norwegian Geotechnical Institute, Oslo, Norway; 2. ExxonMobil, Spring, TX, USA; 3. Adriatic LNG, Milan, Italy; 4. Norwegian University of Science and Technology, Trondheim, Norway

The Bearing Capacity of Monopile Foundations under Combined Loading in Spatially Variable Soil and Local Scour Conditions OMAE2022-80775

Jun Liu, Xinshuai Guo, Ping Yi

Dalian University of Technology, Dalian, China (Mainland)

Petroleum Technology

11-05-01 Well Cementing Theory and Practice I

Tuesday June 7 | Room Y10 | 10:30–12:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Seyed Mohammad Taghavi, Laval University, Canada; Ian Frigaard, University of British Columbia, Canada

Experimental Study of Displacement Flows in a Vertical Eccentric Annulus OMAE2022-78621

Ruizi Zhang, Heeseok Jung, Alondra Renteria, Ian Frigaard

University of British Columbia, Vancouver, BC, Canada

Viscoplastic Fluid Placements in a Confined Geometry with Applications in the Dump Bailing Method in the Plug and Abandonment of Oil and Gas Wells OMAE2022-78848

Soheil Akbari, Seyed Mohammad Taghavi

Laval University, Quebec City, QC, Canada

Off-bottom Plug Placement: on the Effects of Pulling Out of the Hole OMAE2022-78930

Abdallah M. Ghazal, Ida Karimfazli

Concordia University, Montreal, QC, Canada

The Effect of Fluid Contamination on Rheological Properties of Geopolymer Materials OMAE2022-78994

Pouya Khalili, Mahmoud Khalifeh, Arild Saasen

University of Stavanger, Stavanger, Norway

Petroleum Technology

11-12-02 Sustainability and Green Transition in Petroleum Industry II

Tuesday June 7 | Room Y11 | 10:30–12:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Jan David Ytrehus, SINTEF Petroleum, Norway

Energy Efficiency and Mitigation of Greenhouse Gases in FPSOs Ships OMAE2022-80003

Gustavo Castro, Alexandre De Barros Gallo, Alberto Fossa, Edmilson Moutinho Dos Santos
University of São Paulo, São Paulo, SP, Brazil

Offshore Wind Farms and Isolated Oil and Gas Platforms: Perspectives and Possibilities OMAE2022-80645

Daniel Dos Santos Mota¹ Erick Fernando Alves¹ Elisabetta Tedeschi¹ Santiago Sanchez-Acevedo² Harald Svendsen²
1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF, Trondheim, Norway

Oil and Gas Technologies as Key Elements for a Viable Deep Sea Mining Industry OMAE2022-81273

Egil Tjøland, Steinar Ellefmo, Kurt Aasly, Tor Berge Gjersvik, Christine Fichler
Norwegian University of Science and Technology, Trondheim, Norway

Towards a Market and Industrially Driven Green Transition of the Norwegian Oil and Gas Industry OMAE2022-81330

Ragnhild Skorpa¹ **Lars Sørum**¹ Jan David Ytrehus²
1. SINTEF, Trondheim, Norway; 2. SINTEF Petroleum, Trondheim, Norway

Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

12-03-01 Deterministic Wave and Motion Prediction

Tuesday June 7 | Room Y12 | 10:30–12:00

Session Organizer: Marco Klein, Hamburg University of Technology, Germany

Session Co-Organizer: Sascha Kosleck, University of Rostock, Germany

Nonlinear Reconstruction and Prediction of Regular Waves OMAE2022-78988

Nicolas Desmars¹ Moritz Hartmann¹ Jasper Behrendt² Marco Klein¹ Norbert Hoffmann¹
1. Hamburg University of Technology, Hamburg, Germany; 2. BHS Hamburg, Hamburg, Germany

Application of Machine Learning for the Generation of Tailored Wave Sequences OMAE2022-78601

Marco Klein, Merten Stender, Mathies Wedler, **Svenja Ehlers**, Moritz Hartmann,
Nicolas Desmars, Marc-André Pick, Robert Seifried, Norbert Hoffmann
Hamburg University of Technology, Hamburg, Germany

Short-term Forecasting of Surface Wave Elevation Based on an Autoregressive Model OMAE2022-81298

Jialun Chen, Wenhua Zhao, Ian Milne, Scott Draper
University of Western Australia, Perth, WA, Australia

Real-time Ship Motion Prediction Using Artificial Neural Network OMAE2022-80042

Bhushan Taskar¹ Kie Hian Chua¹ Tatsuya Akamatsu² Ryo Kakuta³ Song Wen Yeow¹
Ryosuke Niki³ Keita Nishizawa³ Allan Magee¹
1. TCOMS, Singapore, Singapore; 2. MTI Co.,Ltd. Singapore Branch, Singapore, Singapore; 3. MTI Co., Ltd., Tokyo, Japan

CONCURRENT SESSIONS

13:30 – 15:00

Offshore Technology

01-07-01 Wave Loading and Motions in Extreme Seas

Tuesday June 7 | Room Y1 | 13:30–15:00

Session Organizer: Nuno Fonseca, Marintek, Norway

Session Co-Organizer: Jule Scharnke, MARIN, Netherlands

Finding Dangerous Waves – Towards an Efficient Method to Obtain Wave

Impact Design Loads for Marine Structures OMAE2022-79479

Sanne van Essen, Harleigh Seyffert

Delft University of Technology, Delft, Netherlands

IMO Level 3: Parametric Roll Stability Failure Simulation Using 3D Numerical Wave Tank OMAE2022-79654

Shivaji Ganesan Thirunaavukkarasu¹ Amresh Negi¹ Debabrata Sen²

1. Indian Register of Shipping, Mumbai, MH, India; 2. Indian Institute of Technology Kharagpur, Kharagpur, WB, India

Increase of Wave Drift Forces in Severe Seastates Due to Wave Frequency Viscous Damping OMAE2022-81461

Nuno Fonseca¹ Babak Ommani²

1. SINTEF Ocean, Ranheim, Norway; 2. SINTEF Ocean, Trondheim, Norway

Structures, Safety and Reliability

02-01-03 Extreme Sea States

Tuesday June 7 | Room Hall E | 13:30–15:00

Session Organizer: Alexander Babanin, University of Melbourne, Australia

Session Co-Organizer: Elzbieta Maria Bitner-Gregersen, DNV/Ocean Wave Research, Norway

Performance of the Observation-based Source Terms in a High-resolution

Wave Hindcast for the North Sea OMAE2022-78512

Henrique Rapizo¹ Qingxiang Liu² Alexander Babanin³

1. MetOcean Solutions, Raglan, New Zealand; 2. Physical Oceanography Laboratory, Ocean University of China, Qindao, China (Mainland); 3. University of Melbourne, Melbourne, VIC, Australia

Observation-based Physics in WAVEWATCH-III and SWAN OMAE2022-78938

Alexander V. Babanin

University of Melbourne, Melbourne, VIC, Australia

Cyclonic Wave Field in the Bay of Bengal Region under Changing Climate Scenarios OMAE2022-79092

Bhavithra R S, Sannasiraj S A

Indian Institute of Technology Madras, Chennai, TN, India

Introducing Observation-based Physics into the WAM Wave Model OMAE2022-79652

Joshua Kousal¹ Qingxiang Liu² Joanna Staneva³ Arno Behrens³ Heinz Günther³ Jean Bidlot⁴ Alexander Babanin¹

1. University of Melbourne, Melbourne, VIC, Australia; 2. Ocean University of China, Qindao, China (Mainland); 3. Helmholtz-Zentrum Hereon, Geesthacht, Germany; 4. European Centre for Medium-Range Weather Forecasts, Reading, United Kingdom

Structures, Safety and Reliability

02-12-01 Structural Analysis and Optimization I

Tuesday June 7 | Room Hall F | 13:30–15:00

Session Organizer: Jonas Ringsberg, Chalmers University of Technology, Sweden

Session Co-Organizer: Paulo Videiro, CENTEC, Brazil

Structural Optimization of Ships: Benchmark Study of Metaheuristic Algorithms and Constraint Handling Approaches OMAE2022-79199

Yuecheng Cai, Jasmin Jelovica

University of British Columbia, Vancouver, BC, Canada

Topology Optimization of Joints between Prismatic Sandwich Panels and Girders under In-Plane and Bending Loads OMAE2022-79418

Shengyu Yan, Jasmin Jelovica

University of British Columbia, Vancouver, BC, Canada

A Strategy for the Reduction of Structural Weight of Composite Vessels OMAE2022-80387

Marco Gaiotti, Gianmarco Vergassola, Tatiana Pais

University of Genova, Genova, Italy

Materials Technology

03-05-01 Performance and Reliability of Non-Metallics

Tuesday June 7 | Room Hall D | 13:30–15:00

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Load Capacity of Sandwich Panel with Core Foam Evaluated by 3-Point Bending Test OMAE2022-79308

Lennart Josefson¹ Stephane Paboeuf² Konstantinos Anyfantis³ Albert Zamarin⁴

Carolyn Oddy¹ Benjamin Collier² Katerina Ntouni³ Davor Bolf⁴

1. Chalmers University of Technology, Göteborg, Sweden; 2. Bureau Veritas Marine & Offshore, Saint-Herblain, France; 3. National Technical University of Athens, Athens, Greece; 4. University of Rijeka, Rijeka, Croatia

Development of Fire Integrity Matrix in Order to Achieve Type

Approval for FRP Handrails Offshore OMAE2022-80313

Simon Eves¹ David Filho² Claudio Jarreta³ Tom Byrne⁴

1. NOV, Plymouth, United Kingdom; 2. Modex Servicos de Petroleo do Brasil Ltda, Rio de Janeiro, RJ, Brazil; 3. Petrobras, Rio de Janeiro, RJ, Brazil; 4. NOV Fibreglass Systems, Plymouth, United Kingdom

Numerical Analysis of the Efficiency of Corroded Pressure Vessels with Composite Repair OMAE2022-79165

Geovana Drumond¹ Rodrigo Ribeiro¹ Ilson Pasqualino¹ Marcelo Igor Lourenço De Souza¹ Valber Perrut² Luiz Daniel Lana²

1. Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil; 2. Petrobras, Rio de Janeiro, RJ, Brazil

Performance of PA6C Plastic Sheaves Used for Mooring Line Installation OMAE2022-79057

Vidar Helleum¹ Anders Vaalandsmyr² Thomas Schonlau³ Anette Heimdal⁴ Jawk Meijer³

1. University of Agder, Arendal, Norway; 2. National Oilwell Varco, Kolbjørnsvik, Norway; 3. Röchling Industrial Xanten, Xanten, Germany; 4. University of Agder, Grimstad, Norway

Pipeline, Risers, and Subsea Systems

04-01-05 Flexible Pipes and Umbilicals V

Tuesday June 7 | Room Y2 | 13:30–15:00

Session Organizer: Zhimin Tan, Baker Hughes, USA

Session Co-Organizers: Jun Yan, Dalian University of Technology, China (Mainland); José Renato Mendes De Sousa, Federal University of Rio de Janeiro, Brazil; Theodoro Netto, Fundacao Coppetec, Brazil; Duane DeGeer, Intecsea, USA; Anh Tuan Do, TechnipFMC, France; Alan Dobson, TechnipFMC, United Kingdom

Numerical Evaluation of the Thermal Performance of Modern Offshore

Wind Farm Cables Installed in J-Tubes OMAE2022-80962

Panagiotis Delizisis¹ Charilaos Kokkinos² Dimitrios Chatzipetros³ Dionisis Pettas² Andreas I. Chrysochos³ Konstantinos Loukas²
1. Hellenic Cables, Galatsi, Greece; 2. FEAC Engineering, Patras, Greece; 3. Hellenic Cables, Marousi, Athens, Greece

New Design Methods for Subsea Power Cables Are Helping the Global Marine

Renewable Energy Industry Lower Costs and Improve Reliability OMAE2022-80172

Terry Griffiths¹ Scott Draper¹ Liang Cheng¹ Hongwei An¹ Marie-Lise Schläppy¹ Feifei Tong¹ Antonino Fogliani¹ Wacek Lipski² Chas Spradbery³ Yunfei Teng⁴ David White⁵ Daniel Coles⁶ Stuart Noble⁷ Siobhan Doole⁸ Fraser Johnson⁹
1. University of Western Australia, Nedlands, WA, Australia; 2. Palisade Integrated Management Services, Melbourne, VIC, Australia; 3. Peritus International, Woking, United Kingdom; 4. Dalian University of Technology, Dalian, China (Mainland); 5. University of Southampton, Southampton, United Kingdom; 6. University of Plymouth, Plymouth, United Kingdom; 7. Sealip Engineering, Rochdale, United Kingdom; 8. JDR Cable Systems, Hartlepool, United Kingdom; 9. Simec Atlantis, Edinburgh, United Kingdom

An Efficient 1st Order Stress Hysteresis Model for Helically Laid Rectangular

Elements in Power Cables and Umbilicals OMAE2022-78139

Kjetil André Karlsen

Nexans Norway AS, Halden, Norway

Ocean Engineering

06-03-03 Fluid-structure, Multi-body and Wave-body Interaction III

Tuesday June 7 | Room Y4 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Torgeir Vada, DNVGL, Norway; Pierre Ferrant, Ecole Centrale De Nantes/Cnrs, France; Marcelo Caire, Federal University of Rio de Janeiro, Brazil; Nuno Fonseca, SINTEF Ocean, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil

Second Order Difference- and Sum-Frequency Wave Loads in the

Open-source Potential Flow Solver NEMOH OMAE2022-79163

Ruddy Kurnia, Guillaume Ducrozet, Jean-Christophe Gilloteaux

LHEEA, Ecole Centrale Nantes, Nantes, France

A Physical-based Damping Model of Gap and Moonpool Resonance in WAMIT OMAE2022-79673

Senthuran Ravinthrakumar¹ Babak Ommani¹ Trygve Kristiansen² Idunn Olimb³ Bernt Karsten Lyngvær³

1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Equinor Energy, Bergen, Norway

2d Discrete Module Beam (DMB) Method Formulation to Simulate Hydro-Elastic

Structures with Two Horizontal Bending Axes OMAE2022-79802

Farid P. Bakti¹ Chungkuk Jin² Moohyun Kim²

1. Institut Teknologi Bandung, Bandung, Indonesia; 2. Texas A&M University, College Station, TX, USA

Two-dimensional Numerical Analysis of Mean Wave Drift Loads on Two Fixed Boxes OMAE2022-79910

Lei Tan¹ Tomoki Ikoma² Changhong Hu³

1. Kyushu University, Funabashi, Japan; 2. Nihon University, Funabashi, Japan; 3. Kyushu University, Kasuga, Japan

Ocean Engineering

06-05-02 Marine Hydrodynamics II

Tuesday June 7 | Room Y3 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Shuzheng Sun, Harbin Engineering University, China (Mainland); Sanne Van Essen, MARIN, Netherlands; Lin Li, UIS, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

An Implicit Time-domain Rankine Panel Method for Ship Motions in a Non-inertial Body-fixed Frame of Reference OMAE2022-79054

Hui Liang¹ Yanlin Shao² Kie Hian Chua³ Allan Magee³

1. TCOMS, Singapore, Singapore; 2. Technical University of Denmark, Copenhagen, Denmark; 3. Technology Centre for Offshore and Marine, Singapore, Singapore, Singapore

Wave Drift Forces and Low Frequency Drift Motions for Mooring Analysis of a Spread Moored FPSO OMAE2022-79066

Min Zhang¹ Nuoya Xu¹ Tianen Yang¹ Nuno Fonseca² Fredrik Mood³

1. Ocean University of China, Qingdao, China (Mainland); 2. SINTEF Ocean, Trondheim, Norway; 3. Inocean AS, Oslo, Norway

Data-Driven Propeller and Rudder Modeling for Maneuvering Analysis of the ONR Tumblehome OMAE2022-79139

Bradford Knight, Kevin Silva, Kevin Maki

University of Michigan, Ann Arbor, MI, USA

A Weibull Distribution-based Parametrization for Encounter Wave Spectra OMAE2022-79264

Lariuss Zago¹ Alexandre Kawano¹ Alexandre Simos¹ Rodolfo Gonçalves²

1. University of São Paulo, São Paulo, SP, Brazil; 2. The University of Tokyo, Tokyo, Japan

Polar and Arctic Sciences and Technology

07-04-01 Vessels in Ice – Simulations

Tuesday June 7 | Room Y5 | 13:30–15:00

Session Organizer: Angelo Mario Böhm, TUHH, Germany

Session Co-Organizer: Marc Cahay, Technip Energies, France

Simulation of a Ship Advancing in Pre-sawn Ice OMAE2022-80106

Luofeng Huang¹ Fang Li² Minghao Li³

1. Cranfield University, London, United Kingdom; 2. Aalto University, Helsinki, Finland; 3. Chalmers University of Technology, Gothenburg, Sweden

Investigations on Hull-Ice Frictional Effects OMAE2022-78885

Quentin Hisette, Daniela Myland

Hamburgische Schiffbau-Versuchsanstalt GmbH (HSVA), Hamburg, Germany

Numerical Research on the Resistance Performance of a Ship under Pack Ice Conditions OMAE2022-78558

Tang Xiang-Jie¹ Zou Ming¹ Zou Lu² Zou Zao-Jian²

1. Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland)

Numerical Simulation of Ship-Ice Interaction in Pack Ice Area Based on CFD-DEM Coupling Method OMAE2022-78945

Ming Zou, Xiang-Jie Tang, Lu Zou, Zao-Jian Zou

School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland)

CFD and VIV

08-04-03 Offshore Wind

Tuesday June 7 | Room Y6 | 13:30–15:00

Session Organizer: Guilherme Vaz, blueOASIS, Portugal

Session Co-Organizer: Owen Oakley, Retired, USA

Digital Twinning of Horizontal Axis Wind Turbine with Reduced-order Modelling Approach OMAE2022-81334

Xiang Zhao, Quang Tuyen Le, My Ha Dao

*Institute of High Performance Computing, A*STAR Research Entities, Singapore, Singapore*

A Numerical Study on the Thrust and Interaction of a Three-sail Wind-assisted Propulsion System OMAE2022-80679

Zhengqiao Chen, Wei Cai, Qingsong Zeng

Wuhan University of Technology, Wuhan, China (Mainland)

Code and Solution Verification of Sliding and Overset Grid Methods on Wind Turbine Flows OMAE2022-81337

Tiago Gomes¹ Sébastien Lemaire² Guilherme Vaz³

1. Instituto Superior Técnico, Lisboa, Portugal; 2. University of Southampton and MARIN (Maritime Research Institute Netherlands), Southampton, United Kingdom; 3. blueOASIS and ISMT - Universität Duisburg-Essen, Lisboa, Portugal

Data Fusion for Jack-up Wind Load Prediction OMAE2022-81256

Xiuqing Xing¹ My Ha Dao¹ Baili Zhang¹ Jing Lou¹ Wei Siang Tan² Yongdong Cui² Boo Cheong Khoo²

*1. Institute of High Performance Computing, A*STAR, Singapore, Singapore; 2. Department of Mechanical Engineering, National University of Singapore, Singapore, Singapore*

Ocean Renewable Energy

09-01-06 Wind Turbine AerodynamicsI

Tuesday June 7 | Room Y7 | 13:30–15:00

Session Organizer: D. Todd Griffith, University of Texas at Dallas, USA

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Wake Interaction between Two Floating Offshore Wind Turbines with Blade Deformation OMAE2022-78288

Yang Huang¹ Decheng Wan² Qing Xiao¹

1. University of Strathclyde, Glasgow, United Kingdom; 2. Shanghai Jiao Tong University, Shanghai, China (Mainland)

Effect of Protuberances at the Blade Trailing Edge of a Vertical Axis Wind Turbine OMAE2022-78552

Miguel Somoano¹ Francisco Huera-Huarte²

1. Instituto de Hidraulica Ambiental de la Universidad de Cantabria, Santander, Spain; 2. Universitat Rovira I Virgili, Tarragona, Spain

Impact of Rotor Solidity on the Design Optimization of Floating Vertical Axis Wind Turbines OMAE2022-78715

Ju Gao, D. Todd Griffith, Mohammad Jafari, Shulong Yao, Faraz Ahsan

University of Texas at Dallas, Richardson, TX, USA

Impact of Combining Intracycle Rpm Control and Solidity to Increase Power

Production of Floating Vertical Axis Wind Turbines OMAE2022-79137

Mohammad Jafari, Mohammad Sadman Sakib, D. Todd Griffith

The University of Texas at Dallas, Dallas, TX, USA

Ocean Renewable Energy

09-02-04 WEC Numerical Modeling

Tuesday June 7 | Room Y8 | 13:30–15:00

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Three-dimensional Simulations for Geometric Optimization of a Shoreline Hybrid Wave Energy Converter OMAE2022-81070

Theofano Koutrouveli, Luciana Das Neves

IMDC nv, Antwerp, Belgium

Solutions to Wave Damping over Time in CFD RANS Simulations Due to Exponential Generation of Numerical Turbulence OMAE2022-81447

Pietro Casalone, Oronzo Dell'edera, Marco Fontana, Giuliana Mattiazzo, Beatrice Battisti
Politenico di Torino - MOREnergy Lab, Torino, Italy

Modeling Comparison of Flexible-inflatable and Rigid Small-scale Heaving Wave Energy Converters OMAE2022-80867

Michael Kelly¹ Thomas Boerner² Mohammad-Reza Alam¹
1. University of California, Berkeley, Berkeley, CA, USA; 2. CalWave Power Technologies, Oakland, CA, USA

Comprehensive Verification and Validation of a CFD Analysis OMAE2022-80578

Tiago Amaral¹ Manuel Rentschler² Guilherme Vaz² João Baltazar³
1. Instituto Superior Técnico, Cascais, Portugal; 2. blueOASIS, Lisbon, Portugal; 3. Instituto Superior Técnico, Lisbon, Portugal

Offshore Geotechnics

10-03-01 Anchors and Pipelines I

Tuesday June 7 | Room Y9 | 13:30–15:00

Session Organizer: Katherine Kwa, University of Southampton, United Kingdom

Session Co-Organizers: Kevin Hayes, Genesis, USA; Hyungchui Jang, Technip, USA

Numerical Investigation of Ship Anchor Penetration in Cohesive Baltic Sea Soil OMAE2022-80822

Duy Anh Dao, Jürgen Grabe
Institute of Geotechnical Engineering and Construction Management, Hamburg, Germany

A Whole-life Anchor Macro Model for Floating Offshore Renewable Energy Systems OMAE2022-81101

Katherine Kwa¹ Nallathamby Sivasithamparam² Andrew Deeks² David White¹
1. The University of Southampton, Southampton, United Kingdom; 2. Norwegian Geotechnical Institute, Oslo, Norway

Petroleum Technology

11-07-01 Permanent Well Abandonment

Tuesday June 7 | Room Y10 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Kamali Mohammadreza, University of Stavanger, Norway;
Paulo Henrique Silva Santos Moreira, University of Stavanger, Norway

Rheological and Mechanical Properties of Rock-Based Geopolymers Developed for Well Abandonment: Effect of Chemical Admixtures at Elevated Temperatures OMAE2022-78376

Fawzi Chamssine, Mahmoud Khalifeh, Arild Saasen
University of Stavanger, Stavanger, Norway

Plug Cementing Stability OMAE2022-79290

Anastasia Vogl¹ Nile Walda² Parisa Sarmadi² Adam Fershtman² Rodrigo Seiji Mitishita² Ian Frigaard²
1. University of British Columbia, Department of Mechanical Engineering, Vancouver, BC, Canada; 2. University of British Columbia, Vancouver, BC, Canada

Flowability of Dry and Water Wet Barite Powder OMAE2022-81074

Ragnhild Skorpa¹ Blandine Feneuil¹ Franz Otto Von Hafenbradl² Chandana Ratnayake²
1. SINTEF, Trondheim, Norway; 2. SINTEF AS, Porsgrunn, Norway

Petroleum Technology

11-10-03 Development of Unconventional Reservoirs III

Tuesday June 7 | Room Y11 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Hadi Belhaj, Khalifa University, U.A.E.; Daoyong (Tony) Yang, Petroleum Systems Engineering, Canada

Experimental Study on Temporary Plugging Diverting Acidification of Heterogeneous Sandstone Reservoirs OMAE2022-78751

O Zhao¹ Liwei Zhang² Rongjun Wang² **Qing Wang**³ Mengchuan Zhang³ Erdong Yao³ Bo Wang⁴

1. Operation District of Hutubi Gas Storage of Xinjiang Oilfield Company, Changji, China (Mainland); 2. Engineering Technology Research Institute of Xinjiang Oilfield Company, Karamay, China (Mainland); 3. China University of Petroleum Beijing, Beijing, China (Mainland); 4. China University of Petroleum-Beijing, Karamay, China (Mainland)

Small Sizes of Molybdenum Disulfide Nanosheets as Heavy Oil Viscosity Reducers OMAE2022-78776

Guodong Wu¹ Yanchi Liu² Maieryemuguli Anwaier¹ **Er-Dong Yao**³ Hongda Ren¹ Yuan Li²

1. Engineering Technology Research Institute of PetroChina Xinjiang Oilfield Company, Xinjiang, China (Mainland); 2. China University of Petroleum Beijing, Unconventional Petroleum Research Institute, Beijing, China (Mainland); 3. China University of Petroleum China, Beijing, China (Mainland)

Experimental Study on the Influence of Hydraulic Fracturing on Hydrogen Sulfide Generation in Longxi Block of Daqing Oilfield OMAE2022-79022

Hongyu Sun¹ Liguozhong¹ Jianbin Liu¹ Tongchun Hao¹ Shihao Li¹ Yu Zhu¹ Hailong Zhang² Kexin Wang²

1. China University of Petroleum Beijing, Beijing, China (Mainland); 2. Downhole Operation Company of Daqing Oilfield Co Ltd, Daqing, China (Mainland)

Evaluation and Understanding the Potential of Enhanced Oil Recovery for a Candidate Offshore Sandstone Field OMAE2022-79074

Chuangchuang Qi¹ Aneesa Ijaz Rabbani¹ Abhijith Suboyin¹ Jassim Abubacker Ponnambathayil¹

Md Motiur Rahman¹ Mohamed Haroun¹ Qisheng Ma² Muhammad Gibrata³ Lamia Rouis³ Yanfidra Djanuar³

1. Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates; 2. Power Environmental Energy Research Institute, Covina, CA, USA; 3. Dragon Oil, Dubai, United Arab Emirates

Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

12-01-01 Hydrodynamics, Seakeeping and Global Performance I

Tuesday June 7 | Room Y12 | 13:30–15:00

Session Organizer: Marco Klein, Hamburg University of Technology, Germany

Session Co-Organizer: Florian Sprenger, University of Rostock, Germany

Validation of Time Domain Seakeeping Computations Based on Capsizing Model Tests in Natural Seaways OMAE2022-78413

Stefan Krüger¹ Wiebke Römhild¹ Philipp Russell² Christian Frühling³

1. Hamburg University of Technology, Hamburg, Germany; 2. Marinearsenal, Wilhelmshaven, Germany; 3. Thyssenkrupp Marine Systems GmbH, Kiel, Germany

Wave-Induced Loads Acting on Monopile Configurations considering Wake Effects OMAE2022-78835

Michael Thome, Bettar Ould El Moctar, Thomas Erling Schellin

Institute of Ship Technology, Ocean Engineering and Transport Systems, Duisburg, Germany

Numerical Investigation of Mean Drift Forces Acting on Restrained FPSO in Regular Waves by Linear and Nonlinear Tools OMAE2022-79052

Csaba Pakozdi, Nuno Fonseca

SINTEF Ocean, Trondheim, Norway

Simulation of a Moored Multibody Offshore Structure Articulated by Different Joints in Waves OMAE2022-79571

Changqing Jiang¹ Ould El Moctar¹ Guiyong Zhang² Thomas E. Schellin¹

1. University of Duisburg-Essen, Duisburg, Germany; 2. Dalian University of Technology, Dalian, China (Mainland)

CONCURRENT SESSIONS

15:30 – 17:30

Offshore Technology

01-02-01 Station Keeping I

Tuesday June 7 | Room Y1 | 15:30–17:30

Session Organizer: Allan Magee, National University of Singapore, Singapore

Session Co-Organizer: Anil Sablok, Technip Energies, USA

The Likely Cause of Loss of Position for Dynamically Positioned Semi-submersibles under Moderate Wave Conditions OMAE2022-79149

Karl Erik Kaasen¹ Halgeir Ludvigsen¹ Nuno Fonseca¹ Halvor Lie¹ Lars Geir Bjørheim²

1. SINTEF Ocean, Trondheim, Norway; 2. Petroleum Safety Authority Norway, Stavanger, Norway

Mooring Line Failure Detection in the Absence of Load Monitoring OMAE2022-79591

Mamoun Naciri¹ Mathieu Viola¹ Zhenghua Wang² Roderick Yam³

1. SBM Offshore, Monaco, Monaco; 2. ABS, Spring, TX, USA; 3. ABS, London, United Kingdom

Fatigue Capacity of Used Mooring Chain – Results from Full Scale

Fatigue Testing at Different Mean Loads OMAE2022-79649

Øystein Gabrielsen¹ Svein-Arne Reinholdtsen² Bjørn Skallerud³ Per Haagensen³ Marius Andersen⁴ Pascal-Alexandre Kane⁴

1. Equinor, Ranheim, Norway; 2. Equinor, Sjørdal, Norway; 3. Norwegian University of Science and Technology, Trondheim, Norway; 4. Sintef Industri, Trondheim, Norway

Fatigue Performance of Thermal Spray Aluminium Coated Mooring Chains OMAE2022-80919

Jonathan Fernández¹ Alberto Arredondo¹ Aintzane Exposito¹ Beatriz Albisu¹ Elena Rodríguez¹ José Luis Arana²

1. Vicinay Marine Innovación, Leioa, Spain; 2. UPV/EHU, Bilbao, Spain

Structures, Safety and Reliability

02-02-01 Probabilistic and Spectral Wave Models

Tuesday June 7 | Room Hall E | 15:30–17:30

Session Organizer: Carlos Guedes Soares, IST, University of Lisbon, Portugal

Session Co-Organizer: Erik Vanem, DNVGL, Norway

Laboratory and Open Sea Wind Waves Breaking Probabilities and Dependency on Crest Steepness OMAE2022-78567

Dan Liberzon¹ Sagi Knobler¹ Ewelina Winiarska¹ Alexander Babanin²

1. Technion - Israel Institute of Technology, Haifa, Israel; 2. University of Melbourne, Melbourne, VIC, Australia

Analyzing Extreme Sea State Conditions by Time-series Simulation OMAE2022-78795

Erik Vanem

DNV, Høvik, Norway

High Frequency Tail in Measured Wave Spectra of Steep to Breaking Sea States OMAE2022-79053

Jule Scharnke¹ Kevin Ewans² Cagil Kirezci³ Alexander Babanin³

1. MARIN, Wageningen, Netherlands; 2. MetOcean Research, New Plymouth, New Zealand; 3. University of Melbourne, Melbourne, VIC, Australia

MCMC Based Probabilistic Wave Spectrum Estimation Using Onboard Measurement Data OMAE2022-80627

Myong jin Park, Yooil Kim

Inha University, Incheon, Korea

Structures, Safety and Reliability

02-12-02 Structural Analysis and Optimization II

Tuesday June 7 | Room Hall F | 15:30–17:30

Session Organizer: Jonas Ringsberg, Chalmers University of Technology, Sweden

Session Co-Organizer: Paulo Videiro, CENTEC, Brazil

American and European Hydrostatic Tubular Beam-Column Equation Comparisons OMAE2022-79773

Albert Ku, Mark Richmond

DNV, New Taipei City, Taiwan (Greater China)

Approach to Simulate Fluid-Structure Interaction of a Ship in 3-Dimensional Numerical Towing Tank OMAE2022-78638

Yasuhira Yamada, Chong Ma

National Institute of Maritime, Port and Aviation Technology, Mitaka-city, Japan

Crack Propagation in Dynamic Power Cables OMAE2022-79467

Zhiyuan Li¹ Jonas W. Ringsberg¹ Erland Johnson² Yuriy Serdyuk¹

1. Chalmers University of Technology, Gothenburg, Sweden; 2. RISE Research Institutes of Sweden, Borås, Sweden

Position Specific Monopile Fatigue Load in the Frequency Domain OMAE2022-79907

Niels Christian Dahl¹ Jan Høgsberg² Martin Bjerre Nielsen³ Richard Thyssen Nørby Larsen⁴

1. Wood Thilsted, København S, Denmark; 2. Technical University of Denmark, Kgs. Lyngby, Denmark; 3. Wood Thilsted, Copenhagen, Denmark; 4. Technical University of Denmark, Copenhagen, Denmark

Materials Technology

03-06-01 Advances in Materials and Manufacturing Technology

Tuesday June 7 | Room Hall D | 15:30–17:30

Session Organizer: Mamdouh Salama, MMS4AIM LLC, USA

Session Co-Organizers: Agnes Marie Horn, DNV, Norway; Carol Johnston, TWI, United Kingdom

Finite Element Modeling of the Effect of Different Post-Weld Heat Treatment on Strength of Welded AISI 4130 Steel Pipe OMAE2022-79080

Even Englund

LEIRVIK AS, Lillesand, Norway

Benchmark Study of Welding Deformations in Stiffened Plate OMAE2022-87473

Lennart Josefson¹ Bai-Qiao Chen² Koji Gotoh³ Fang Wang⁴ Kun Liu⁵ Stephen Van Duin⁶ Pingsha Dong⁷

1. Chalmers University of Technology, Göteborg, Sweden; 2. Instituto Superior Técnico, Lisbon, Portugal; 3. Kyushu University, Fukuoka, Japan; 4. Shanghai Ocean University, Shanghai, China (Mainland); 5. Jiangsu University of Science and Technology, Zhenjiang, China (Mainland); 6. University of Wollongong, Wollongong, NSW, Australia; 7. University of Michigan, Ann Arbor, MI, USA

Modeling of Thermo-mechanical Behavior of Laser Powder Bed Fusion of Nickel-based Super Alloy Parts Used in Oil and Gas Industry OMAE2022-79192

Zeinab Malekshahi Beiranvand¹ R.M. Chandima Ratnayake² Mehdi Rasoulinia³ Amir Moradiani¹

1. Tarbiat Modares University, Tehran, Iran; 2. University of Stavanger, Stavanger, Norway; 3. Borujerd Azad Eslami University, Lorestan, Iran

Detection, Quantification and Localization of Delamination Failures in Fibre-based Towers of Floating Offshore Wind Turbines OMAE2022-78308

Cristobal Garcia Pariente, Alfonso Jurado, Santiago Álvarez-Buylla Puente

TSI, Madrid, Spain

Pipeline, Risers, and Subsea Systems

04-02-01 Rigid Risers I

Tuesday June 7 | Room Y2 | 15:30–17:30

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

Low Cycle Fatigue in Risers and Pipelines OMAE2022-78905

Ghiath (Guy) Mansour

Artifex Engineering, Inc., Houston, TX, USA

Proposal for Cyclic Riser Load Methodology Using High-resolution Current Data OMAE2022-81078

Lasse Moldestad¹ Lorents Reinås² Stian Sætre³ Øistein Johnsen⁴

1. TechnipFMC, Kongsberg, Norway; 2. Equinor ASA, Stavanger, Norway; 3. DNV, Høvik, Norway; 4. NORCE Norwegian Research Centre, Haugesund, Norway

The Challenges of Data Availability for the Life Extension of Steel Catenary Risers OMAE2022-83455

Basim Mekha¹ John Gordon²

1. Cuneiform Offshore Consulting, LLC, Houston, TX, USA; 2. , Houston, TX, USA

FPSO Second-order Roll Motions and the Impacts on SLWR Riser Design OMAE2022-79917

Stael Ferreira Senra, Marcos Donato Auler Da Silva Ferreira, Allan Carre De Oliveira,

Bernardo Donni De Sena, Vinicius Garcia Prado

Petrobras, Rio de Janeiro, RJ, Brazil

Ocean Engineering

06-03-04 Fluid-structure, Multi-body and Wave-body Interaction IV

Tuesday June 7 | Room Y4 | 15:30–17:30

Spatial Distribution of Impact Pressure Impulse on a Semi-submersible in Irregular Waves OMAE2022-80037

Nianfan Zhang¹ Longfei Xiao¹ Handi Wei¹ Xiaoqing Teng² Yinghao Guo¹

1. State Key Laboratory of Ocean Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. China Merchants Offshore Technology Research Center, Haimen, China (Mainland)

The Hydrodynamics of Hard-Chine Sections Entering Water OMAE2022-80598

Sasan Tavakoli¹ Alexander Babanin¹ Spyros Hirdaris²

1. University of Melbourne, Melbourne, VIC, Australia; 2. Aalto University, Espoo, Finland

Modelling Green Water Impact Load on a Single Circular Cylinder OMAE2022-81242

Min Gao¹ Scott Draper¹ Guy Mccauley¹ Lifen Chen¹ Xiantao Zhang² Hugh Wolgamot¹ Paul Taylor¹

1. University of Western Australia, Crawley, WA, Australia; 2. Shanghai Jiao Tong University, Shanghai, China (Mainland)

Stress Analysis for Three-dimensional Structures considering the Global Hydroelasticity by Beam Connected Discrete Modules Method OMAE2022-81325

Shiyuan Zhang¹ Shuai Li¹ Shixiao Fu¹ Torgeir Moan² Zhiyuan Pan³ Yuwang Xu¹ Bin Song¹

1. State Key Laboratory of Ocean Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. NTNU Centre for Autonomous Marine Operations and Systems, Marine Technology Centre, Trondheim, Norway; 3. DNV, Høvik, Norway

Ocean Engineering

06-05-03 Marine Hydrodynamics III

Tuesday June 7 | Room Y3 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Shuzheng Sun, Harbin Engineering University, China (Mainland); Sanne Van Essen, MARIN, Netherlands; Lin Li, UIS, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

Wave Loads and Ship Motions Evaluated by Linear Strip and Panel Methods OMAE2022-79702

Aaro Karola, Spyros Hirdaris, Jerzy Matusiak, Tommi Mikkola
Aalto University, Espoo, Finland

Hydrodynamic Analysis in Marine Operations: a Preprocessing and Postprocessing Tool OMAE2022-80153

Joannes Gullaksen
JG Maritime Engineering Ltd, Bucksburn, United Kingdom

Use of a Linear Discretization of the Velocity Potential in the Frequency-domain Linear Potential Flow Theory OMAE2022-80174

Pierre-Yves Wuillaume, Lucas Letournel, François Rongère, Camille Chauvigné
D-Ice Engineering, Nantes, France

Polar and Arctic Sciences and Technology

07-05-01 Ice Model Tests

Tuesday June 7 | Room Y5 | 15:30–17:30

Session Organizer: Brendon Nickerson, Stellenbosch University, South Africa

Session Co-Organizer: Walter Kuehnlein, terra.blue, Germany

Ice Basin Tests for Ice-induced Vibrations of Offshore Structures in the SHIVER Project OMAE2022-78507

Hayo Hendrikse¹ **Tim Hammer¹** **Cody Owen¹** **Marnix Van Den Berg¹**
Kees Van Beek¹ **Arttu Polojärvi²** **Otto Puolakka²** **Tom Willems³**
1. Delft University of Technology, Delft, Netherlands; 2. Aalto University, Espoo, Finland; 3. Siemens Gamesa, Amsterdam, Netherlands

Hsva Model Ice – a Status Report OMAE2022-79014

Gesa Ziemer, **Timo Stange**, **Quentin Hissette**
HSVA, Hamburg, Germany

Compressive Failure of Ice during Indentation by Rock Particles OMAE2022-79211

Thomas Fitzpatrick¹ **Rocky Taylor¹** **Jan Thijssen²**
1. Memorial University of Newfoundland, St. John's, NL, Canada; 2. C-CORE, St. John's, NL, Canada

Analyzing Flexural Strength Data of Ice: How Useful Is Explainable Machine Learning? OMAE2022-87434

Patrik Buil¹ **Leon Kellner²** **Sören Ehlers²** **Franz von Bock und Polach²**
1. University Duisburg-Essen, Hamburg, Germany; 2. Hamburg University of Technology, Hamburg, Germany

Peridynamic Analysis of Floating Ice under Transverse Pressure OMAE2022-80590

Pranitha Bachimanchi, **Nilanjan Saha**
Indian Institute of Technology Madras, Chennai, TN, India

CFD and VIV

08-06-02 VIV of Flexible Risers and Cables

Tuesday June 7 | Room Y6 | 15:30–17:30

Session Organizer: Jie Wu, SINTEF, Norway

Session Co-Organizer: Owen Oakley, Retired, USA

Numerical Investigation of the Effect of Vortex Induced Vibrations (VIV) Parameters on the Behavior of Submarine Power Cables: a Comparison with Scaled Down Experimental Results OMAE2022-79509

Panagiotis Delizisis¹ Konstantinos Grivas² Jaap De Wilde³ Erik-Jan De Ridder³ Themistocles L Resvanis⁴ Georgios Georgallis²
1. Hellenic Cables, Galatsi, Greece; 2. Hellenic Cables, Athens, Greece; 3. MARIN, Wageningen, Netherlands; 4. Massachusetts Institute of Technology, Cambridge, MA, USA

Flow around Curved Tandem Cylinders OMAE2022-79469

Tale Aasland¹ Bjørnar Pettersen² Helge I. Andersson³ Fengjian Jiang⁴

1. The Norwegian University of Science and Technology, Trondheim, Norway; 2. The Norwegian University of Science and Technology - Department of Marine Technology, Trondheim, Norway; 3. The Norwegian University of Science and Technology - Department of Energy and Process Engineering, Trondheim, Norway; 4. SINTEF Ocean - Department of Ships and Ocean Structures, Trondheim, Norway

Influence of Internal Slug Flow on Vortex-induced Vibration of Flexible Riser with Variable Curvature OMAE2022-78236

Bowen Ma¹ Narakorn Srinil²

1. Shanghai Ship and Shipping Research Institute, Shanghai, China (Mainland); 2. Newcastle University, Newcastle upon Tyne, United Kingdom

Three-Dimensional Large Eddy Simulations and Proper Orthogonal Decomposition Analysis of Flow around a Flexibly Supported Circular Cylinder OMAE2022-78378

Marek Janocha, Lukas Fabricius, Guang Yin, Muk Chen Ong

University of Stavanger, Stavanger, Norway

Experimental Investigation of Flow around a Single Circular Cylinder Freely Vibrating in Two Degrees-of-Freedom OMAE2022-80115

Hassan El Sheshtawy, Ould El Moctar, Simon Tödter, Thomas E. Schellin

University of Duisburg-Essen (ISMT), Duisburg, Germany

Ocean Renewable Energy

09-01-03 Installation, Marine Operations and Maintenance III

Tuesday June 7 | Room Y7 | 15:30–17:30

Session Organizer: Amir R. Nejad, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Life Cycle Response Analysis of a Floating Offshore Wind Turbine OMAE2022-80112

Bonjun Koo¹ Chan Jeong² Hyoungchul Kim¹ Ho-Joon Lim¹ Lawrence Lai¹ Hyunchul Jang¹

1. Technip Energies, Houston, TX, USA; 2. Fugro USA, Houston, TX, USA

Dynamic Analysis of Blade Mating Process Using Jack-up Crane Vessel: a Code-to-Code Comparison OMAE2022-80701

Saravanan Bhaskaran¹ Amrit Shankar Verma² Shuai Yuan¹ Karl Henning Halse¹

1. Norwegian University of Science and Technology, Ålesund, Norway; 2. The University of Maine, Orono, ME, USA

A Comparison of Approaches for Modelling Walk-to-Work Gangway Access OMAE2022-80926

Ben Moverley Smith¹ Ben Middleditch¹ Philipp Thies²

1. Xodus Group, Aberdeen, United Kingdom; 2. University of Exeter College of Engineering, Mathematics and Physical Sciences Renewable Energy Group, Penryn, United Kingdom

A Perspective of Decommissioning Methods for Bottom-fixed Offshore Wind Turbines OMAE2022-80933

Soheil Salahshour¹ Muk Chen Ong¹ Bjørn Skaare¹ Zhiyu Jiang²

1. University of Stavanger, Stavanger, Norway; 2. University of Agder, Grimstad, Norway

Offshore Wind Turbine Support Structures along Indian Coast – Multi Criteria Analysis OMAE2022-80930

Mounika Mallela¹ Nilanjan Saha¹ Satya Kiran Raju Alluri² M V Ramana Murthy²

1. Indian Institute of Technology Madras, Chennai, TN, India; 2. National Centre for Coastal Research, Chennai, TN, India

Ocean Renewable Energy

09-03-01 Current and Tidal Energy I

Tuesday June 7 | Room Y8 | 15:30–17:30

Session Organizer: Marc Cahay, Technip Energies, France

Session Co-Organizer: Madjid Karimirad, Queen's University Belfast, United Kingdom

The Relationship between Reliability and Environmental Impact in

Tidal Stream Turbine Deployments OMAE2022-78417

Stuart Walker, Philipp Thies, Lars Johanning

University of Exeter, Penryn, United Kingdom

Joint Extremes of Waves and Currents at Tidal Energy Sites in the English Channel OMAE2022-79348

Edward Mackay, Jon Hardwick

University of Exeter, Penryn, United Kingdom

Control Co-design of a Hydrokinetic Turbine with Open-loop Optimal Control OMAE2022-81006

Boxi Jiang, Mohammad Reza Amini, Yingqian Liao, Joaquim R. R. A. Martins, Jing Sun

University of Michigan, Ann Arbor, MI, USA

Power Production from a Hydrokinetic Device: Mass of Water Turbine OMAE2022-81210

Azin Lamei¹ Masoud Hayatdavoodi¹ Stuart Moir²

1. University of Dundee, Dundee, United Kingdom; 2. MWNW Consulting, Banchory, United Kingdom

Offshore Geotechnics

10-03-02 Anchors and Pipelines II

Tuesday June 7 | Room Y9 | 15:30–17:30

Session Organizer: Hyungchul Jang, Technip, USA

Session Co-Organizers: Kevin Hayes, Genesis, USA; Katherine Kwa, University of Southampton, United Kingdom

Geohazard Study of Mudslide Event at a Subsea Escarpment and Structural

Response of Crossing Flowlines: Part I – FEA Analysis OMAE2022-81036

Kevin Hayes¹ Hyunchul Jang² Lawrence Lai² Anthony Musto³

1. Genesis, Houston, TX, USA; 2. Technip Energies, Houston, TX, USA; 3. TechnipFMC, Kuala Lumpur, Malaysia

Geohazard Study of Mudslide Event at a Subsea Escarpment and Structural Response

of Crossing Flowlines: Part II – CFD and FSI Analysis OMAE2022-80539

Hyunchul Jang¹ Lawrence Lai¹ Kevin Hayes² Anthony Musto³

1. Technip Energies, Houston, TX, USA; 2. Genesis, Houston, TX, USA; 3. TechnipFMC, Kuala Lumpur, Malaysia

Petroleum Technology

11-06-01 Integrity of Well Barriers

Tuesday June 7 | Room Y10 | 15:30–17:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Jan David Ytrehus, SINTEF Petroleum, Norway

Cement Sheath Integrity Evaluation under Multiple Cyclic Loading Using Mechanical

Equivalent Experiment for Gas Storage Wells in Eastern China OMAE2022-80440

Donghua Su, Zaoyuan Li, Xuning Wu, Jin Li, Jinfei Sun, Guanyi Zheng

Southwest Petroleum University, Chengdu, China (Mainland)

Advanced Laboratory Setup to Determine and Verify Cement Sheath Integrity OMAE2022-81072

Ali Taghipour, Blandine Feneuil, Torbjørn Vrålstad, Ragnhild Skorpa

SINTEF AS, Trondheim, Norway

Risk Analysis for Wells in an Active CO₂-Enhanced Oil Recovery Field in

Farnsworth Unit, Anadarko Basin, Texas OMAE2022-81041

Thinh On¹ Tan Nguyen² Robert Balch²

1. New Jersey Institute of Technology, Kearny, NJ, USA; 2. New Mexico Institute of Mining and Technology, Socorro, NM, USA

Experimental and Probability-based Approaches to Estimate Leakage Rates in Plugged and Abandoned Wells in CO₂-Enhanced Oil Recovery Fields OMAE2022-80974

Thinh On¹ Tan Nguyen² Robert Balch²

1. New Jersey Institute of Technology, Kearny, NJ, USA; 2. New Mexico Institute of Mining and Technology, Socorro, NM, USA

Petroleum Technology

11-10-04 Development of Unconventional Reservoirs IV

Tuesday June 7 | Room Y11 | 15:30–17:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Hadi Belhaj, Khalifa University, U.A.E.; Huazhou Li, University of Alberta, Canada

Pore-scale Investigation on Dynamic Permeability Characterization of Hydrate-bearing Sediments OMAE2022-79775

Mingqiang Chen¹ Qingping Li¹ Xin Lyu¹ Qi Fan¹ Yang Ge¹ Chaohui Lyu²

1. Research Center of China National Offshore Oil Corporation, Beijing, China (Mainland);

2. China University of Petroleum Beijing, Beijing, China (Mainland)

Experimental Study on Asphaltene Deposition Characteristics in

Yudong Block of Yingmaili Oilfield OMAE2022-79908

Hang Xu, Fujian Zhou, Yuan Li, Liyan Zhu, Hao Bai, Erdong Yao

China University of Petroleum Beijing, Beijing, China (Mainland)

Enhancement of Tight Oil Recovery by Amphiphilic Janus Nanosheets OMAE2022-79920

Yuan Li¹ Fujian Zhou¹ Bojun Li¹ Hang Xu¹ Erdong Yao¹ Minghui Li¹ Lufeng Zhang²

1. China University of Petroleum Beijing, Beijing, China (Mainland); 2. State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms and Effective Development, Sinopec Petroleum

Exploration and Production Development Research Institute, Beijing, China (Mainland)

Treating Agent for Reducing Adsorption Damage of Slick Water on Coal Rock Surface OMAE2022-80060

Guodong Wu¹ Bojun Li² Maieremuguli Anwaier¹ Yuan Li² Hongda Ren¹ Erdong Yao²

1. Engineering Technology Research Institute of PetroChina Xinjiang Oilfield Company, Karamay, China (Mainland); 2. China University of Petroleum Beijing, Beijing, China (Mainland)

Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

12-01-02 Hydrodynamics, Seakeeping and Global Performance II

Tuesday June 7 | Room Y12 | 15:30–17:30

Session Organizer: Marco Klein, Hamburg University of Technology, Germany

Session Co-Organizer: Florian Sprenger, University of Rostock, Germany

Ship Gyroscopic Roll Stabilisation OMAE2022-79530

Sergio Ribeiro e Silva, Jose Miguel Varela

University of Lisbon, Lisbon, Portugal

Seakeeping Analysis of a GRP Fast Patrol Vessel OMAE2022-81100

Venus Hydar¹ Dario Boote¹ Florin Pacuraru² Gianmarco Vergassola¹

1. University of Genova, Genova, Italy; 2. University of Galati, Galati, Romania

Mitigating Spurious Low-frequency Waves in a Model Basin with a Ramped Floor OMAE2022-78434

Bulent Duz, Jule Scharnke, Jaap De Wilde

MARIN, Wageningen, Netherlands

Modified Dam-break Solution for Green Water on the Deck of an FPSO OMAE2022-79903

Jinzhu Xia¹ Huaxing Liu² Hilmi Sukri¹

1. MISC Berhad, Kuala Lumpur, Malaysia; 2. OSMO, Singapore, Singapore

Random Experimental Uncertainty Analysis on the Model Tests of an LNG Carrier in Extreme Seas OMAE2022-79048

Shan Wang, Carlos Guedes Soares

Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal

Wednesday Concurrent Sessions

WEDNESDAY, JUNE 8

11:00 – 12:30

Offshore Technology

01-09-01 Adapting/Mitigating Climate Change

Wednesday June 8 | Room Y1 | 11:00–12:30

Session Organizer: Denby Morrison, Shell, USA

Session Co-Organizers: Masoud Hayatdavoodi, University of Dundee, United Kingdom; R. Cengiz Ertekin, University of Hawaii, USA

Improved Climate Change Adaptation in Port of Brisbane Using a Digital Twin Cloud-Based Modelling Approach OMAE2022-79613

Helena Karatvuo¹ Michael Linde² Azam Dolatshah¹ Simon Mortensen¹

1. Seaport OPX, Surfers Paradise, QLD, Australia; 2. Port of Brisbane, Port of Brisbane, QLD, Australia

Structures, Safety and Reliability

02-07-01 Reliability of Renewable Energy Systems

Wednesday June 8 | Room Hall E | 11:00–12:30

Session Organizer: Zhen Gao, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Athanasios Kolios, University of Strathclyde, United Kingdom

Fatigue Assessment of Wind Assisted Propulsion Systems OMAE2022-80511

Gaute Storhaug¹ Guilherme Romar Borzacchiello² Hasso Hoffmeister³

1. DNV, Oslo, Norway; 2. Kongstein, Hamburg, Portugal; 3. DNV, Hamburg, Germany

Analysis of Life Extension Performance Metrics for Offshore Wind Assets OMAE2022-78184

Baran Yeter, Yordan Garbatov, Carlos Guedes Soares

Centre for Marine Technology and Ocean Engineering (CENTEC), Instituto Superior Técnico, Lisboa, Portugal

Optimal Management of Offshore Wind Assets at Different Stages of Life Extension Accounting for Uncertainty Propagation OMAE2022-78185

Yordan Garbatov, Baran Yeter, Carlos Guedes Soares

Centre for Marine Technology and Ocean Engineering (CENTEC), Instituto Superior Técnico, Lisboa, Portugal

Structures, Safety and Reliability

02-11-01 Ultimate Strength I

Wednesday June 8 | Room Hall F | 11:00–12:30

Session Organizer: Carlos Guedes Soares, IST, University of Lisbon, Portugal

Session Co-Organizer: Thomas Lindemann, University of Rostock, Germany

Analysis of Welding Influences on Extruded Aluminum Panel Buckling OMAE2022-78575

Xintong Wang, Jørgen Amdahl

Norwegian University of Science and Technology, Trondheim, Norway

Bottom Lateral Pressure Effect on the Ultimate Bending Moment of the Scaled Hull Girders OMAE2022-78671

Hongyang Ma¹ Qi Wan² Deyu Wang¹

1. School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. Marine Design and Research Institute of China, Shanghai, China (Mainland)

Nonlinear Distortion Nature of the Collapse Behaviors for Geometrically Distorted Thin-walled Hull Girder Subjected to Combined Loads OMAE2022-78932

Qinghu Wang, Deyu Wang

Shanghai Jiao Tong University, Shanghai, China (Mainland)

Modification of Double Bottom Height and Its Effect to the Ultimate Strength OMAE2022-79120

Muhammad Zubair Muis Alie, Indah Melati Suci, Andi Muhammad Alfian Arafat, Juswan Juswan, Wahyuddin Mustafa
Hasanuddin University, Makassar, Indonesia

Pipeline, Risers, and Subsea Systems

04-02-02 Rigid Risers II

Wednesday June 8 | Room Y2 | 11:00–12:30

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

Steel Lazy Wave Riser Integrity Review for Excessive Flowline Walking Conditions OMAE2022-78590

Abhilash Sebastian, Fengbin Xu, Mayank Lal, Yashpal Rana
TechnipFMC, Houston, TX, USA

Small Size Steel Catenary Riser S-Lay Installation with Flexible Joint as 2nd End: Difficulties and Solutions OMAE2022-79231

Song Liu¹ Yongjun Du² Wentai Yu²

1. COOEC, Katy, TX, USA; 2. COOEC, Tianjin, China (Mainland)

Conductor Instability – Experience from 10 Years of Monitoring Drilling

Operations on Subsea Wells in Harsh Environments OMAE2022-81117

Håkon Molven¹ Per Kristian Pöcher² Vegard Martinsen³ Harald Holden³

1. 4Subsea, Oslo, Norway; 2. 4Subsea, Kristiansand, Norway; 3. 4Subsea, Asker, Norway

Rationale for Norsok U-001 5th Edition Revision of Static and Cyclic Subsea Wellhead Loads OMAE2022-81380

Harald Holden¹ Anthony Muff² Lorents Reinås³

1. 4Subsea, Asker, Norway; 2. Equinor, Fornebu, Norway; 3. Equinor, Stavanger, Norway

Ocean Space Utilization

05-06-01 High Tide and Tsunamis

Wednesday June 8 | Room Y3 | 11:00–12:30

Automatic Tsunami Barrier OMAE2022-79320

Eigai Hamada

Anti-Tsunami Laboratory, Fujisawa, Japan

A Study on the Construction of the Tsunami Hazard Database for Mooring Vessels in the Ports OMAE2022-79338

Mitsuhiro Masuda

Tokyo University of Marine Science and Technology, Koto-ku, Japan

Understanding the Collision of Debris Carried by Tsunami-like Flows on a Residential Structure OMAE2022-80063

N.R. Josiah¹ Susumu Araki² D.P.C. Laknath³

1. Osaka Univeristy, Osaka, Japan; 2. Osaka University, Suita, Japan; 3. Lana Hydraulic Institute, Moratuwa, Sri Lanka

Port Plans to Reduce Disaster Damages of High Tide and Tsunamis OMAE2022-81027

Koji Takahashi, Asami Sugiyama, Shuichi Nakamura, Daisuke Shibata

Japan Port Consultants, Ltd., Shinagawa, Japan

Ocean Engineering

06-05-04 Marine Hydrodynamics IV

Wednesday June 8 | Room Y4 | 11:00–12:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Shuzheng Sun, Harbin Engineering University, China (Mainland); Sanne Van Essen, MARIN, Netherlands; Lin Li, UIS, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Filipe Salvador Lopes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

On the Effect of Free-Surface Linearization on the Predicted Hydrodynamic Response of Underwater Vehicles Travelling near the Free-Surface OMAE2022-80485

William Lambert, Stefano Brizzolara, Craig Woolsey

Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Leading-edge Tubercles Applied onto a Flapped Rudder OMAE2022-80807

Moritz Troll, Weichao Shi, Callum Stark

University of Strathclyde, Glasgow, United Kingdom

Investigating Hull Blockage and Thruster-Hull Effects on an ASD Tug OMAE2022-80816

Lucas Yiew, Bhushan Taskar, Yingying Zheng, Allan Magee

Technology Centre for Offshore and Marine, Singapore, Singapore, Singapore

Hydrodynamic Analysis of a Triple Thruster Unit via a BEM/RANS Interactive Method OMAE2022-81026

Seungnam Kim¹ Spyros A. Kinnas¹ Jahn Terje Johannessen² Ray Thomas Grebstad²

1. Ocean Engineering Group, CAEE, The University of Texas at Austin, Austin, TX, USA; 2. BRUNVOLL, Molde, Norway

Dynamic Response of Local Hull Structures under Moving Slamming Loads OMAE2022-81032

Yunbin Chen, Ling Zhu

Wuhan University of Technology, Wuhan, China (Mainland)

Ocean Engineering

06-07-01 Metocean, Measurement and Data Interpretation I

Wednesday June 8 | Room Y12 | 11:00–12:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Alessandro Iafrazi, CNR, Italy; Kevin Ewans, MRL, New Zealand; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

Assessment of Sea State Estimation with Convolutional Neural Networks Based on the Motion of a Moored FPSO Subjected to High-Frequency Wave Excitation OMAE2022-78603

Gustavo Alencar Bisinotto¹ Lucas Pereira Cotrim¹ Fabio Gagliardi Cozman² Eduardo Aoun Tannuri¹

1. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Paulo, SP, Brazil; 2. Universidade de São Paulo, São Paulo, SP, Brazil

Estimation of Ocean's Currents Acting on a Turret-moored FPSO Using Machine Learning OMAE2022-78607

Pedro Felipe Lavra Dias¹ Eduardo Aoun Tannuri² Anna Helena Reali Costa³

Glauco Augusto De Paula Caurin⁴ Gustavo Alencar Bisinotto²

1. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Luis, MA, Brazil; 2. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Paulo, SP, Brazil; 3. Universidade de São Paulo, São Paulo, SP, Brazil; 4. Universidade de São Paulo, São Carlos, SP, Brazil

Automatic Clustering of Metocean Conditions in the Brazilian Coast OMAE2022-78608

Felipe Marino Moreno¹ Fabio Gagliardi Cozman² Eduardo Aoun Tannuri³

1. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), Guarulhos, SP, Brazil; 2. Universidade de São Paulo, São Paulo, SP, Brazil; 3. Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Paulo, SP, Brazil

Changes in Global Ocean Extreme Wave Heights across the 20th and the 21st Century OMAE2022-78610

Alberto Meucci, Ian Young

University of Melbourne, Melbourne, VIC, Australia

Consistency Assessment of Wave Directional Spectrum Predictions from Machine Learning Based Ship-as-a-Wave-Buoy Methods OMAE2022-79126

Thomas Scholcz, Bulent Duz, Remco Hageman, Bart Mak
MARIN, Wageningen, Netherlands

Ocean Engineering

06-12-01 Ship Hydromechanics I

Wednesday June 8 | Room Y9 | 11:00–12:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Rodrigo Soares, Federal University of Rio de Janeiro, Brazil; Ye Li, Shanghai Jiao Tong University, China (Mainland); Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; João Victor Padilha, Universidade Federal do Rio de Janeiro, Brazil

Application of Machine Learning Algorithms for Predicting Added Resistance in Arbitrary Wave Headings of a Ship OMAE2022-78433

Young-Rong Kim, Sverre Steen

Department of Marine Technology, Norwegian University of Science and Technology, Trondheim, Norway

Estimation of Vertical, Horizontal and Torsional Rigid Body Loads of an Ultra-Large Container Ship (ULCS) in Regular Waves OMAE2022-78474

Suresh Rajendran, Vijith P P

Indian Institute of Technology Madras, Chennai, TN, India

A Reliable Multilevel Method for Simulation-based Load Determination on Deck Cell Guides OMAE2022-78713

Ole Detlefsen, Carl Reiner, Moustafa Abdel-Maksoud

Hamburg University of Technology, Hamburg, Germany

On the Influence of Hull-Shape on the Location of Roll-Axis OMAE2022-78781

Lars Johnsen, Stefan Krüger

Hamburg University of Technology, Hamburg, Germany

A Fast and Transparent Method for Setting Powering Margins in Ship Design OMAE2022-78937

Shukui Liu¹ Baoguo Shang² Haoliang Chen³ Apostolos Papanikolaou⁴

1. Nanyang Technological University, Singapore, Singapore; 2. Marine Design and Research Institute of China, Shanghai, China (Mainland); 3. Akzonobel, Singapore, Singapore; 4. National Technical University of Athens, Athens, Greece

Polar and Arctic Sciences and Technology

07-06-01 Numerical Ice Modeling

Wednesday June 8 | Room Y5 | 11:00–12:30

Session Organizer: T. C. Hammer, Tu Delft, Netherlands

Session Co-Organizer: Jonas Behnen, TUHH, Germany

A Numerical Scheme to Investigate Ice Fracture in Level Ice-Ship Interaction OMAE2022-78955

Ying Xu¹ Jiameng Wu¹ Zeping Wang²

1. Marine Design and Research Institute of China, Shanghai, China (Mainland);
2. Harbin Engineering University, Qingdao, China (Mainland)

Image Processing to Extract Ice Features to Aid Modelling of Ice Force OMAE2022-79255

Shamima Akter¹ Shameem Islam² M Hasanat Zaman² Salim Ahmed¹ Syed Imtiaz¹ Robert Gash³

1. Memorial University of Newfoundland, St. John's, NL, Canada; 2. Ocean, Coastal and River Engineering of National Research Council Canada, (OCRE-NRC), St. John's, NL, Canada; 3. National Research Council Canada, St. John's, NL, Canada

Numerical Simulation Research about the Influence of Nozzle Parameters on the Quality of Ice-core in Hot-water Ice-drilling OMAE2022-80173

An Liu, Zhigang Shan, Ting Shi, Weida Ni

PowerChina Huadong Engineering Co., Ltd., Hangzhou, China (Mainland)

CFD and VIV

08-05-01 Free Surface Flows I

Wednesday June 8 | Room Y6 | 11:00–12:30

Session Organizer: Hans Bihs, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Owen Oakley, Retired, USA

Hydrodynamic Performance of 3-D Hydrofoil under the Free Surface Based on Taylor Expansion Boundary Element Method OMAE2022-79000

Jianghao Huang¹ Chaobang Yao¹ Dakui Feng¹ Xiaoshuai Sun²

1. Huazhong University of Science and Technology, Wuhan, China (Mainland);
2. China Marine Development and Research Center, Beijing, China (Mainland)

Hydrodynamic Interactions of Multiple Surface-Piercing Struts by Smoothed Particles Hydrodynamics OMAE2022-81431

Giuliano Vernengo¹ Yigit Kemal Demirel² Claire De Marco Muscat-Fenech³ Stefano Gaggero¹ Diego Villa¹

1. University of Genoa, Genoa, Italy; 2. University of Strathclyde, Glasgow, United Kingdom; 3. University of Malta, Msida, Malta

Statistical Variation of the 3-hour Maximum Crest Height in a Survival Sea State OMAE2022-79045

Tim Bunnik, Jule Scharnke

MARIN, Wageningen, Netherlands

Computational Methods for Wave Structure Interaction Modelling in Coastal Environments under Consideration of Bathymetric Attributes OMAE2022-81080

León-Carlos Dempwolff¹ Tobias Martin² Christian Windt¹ Gregor Melling³ Hans Bihs² Nils Goseberg¹

1. Leichtweiß-Institut, Technische Universität Braunschweig, Braunschweig, Germany; 2. Department of Civil and Environmental Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway; 3. Federal Waterways Engineering and Research Institute, Hamburg, Germany

Ocean Renewable Energy

09-01-07 Wind Turbine Aerodynamics II

Wednesday June 8 | Room Y7 | 11:00–12:30

Session Organizer: Tonio Sant, Department of Mechanical Engineering, University of Malta, Malta

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Modelling Aerodynamics of a Floating Offshore Wind Turbine Using the Overset Mesh Solver in OpenFOAM OMAE2022-79230

Zaibin Lin¹ Ling Qian¹ Sergio Campobasso² Wei Bai¹ Yang Zhou¹ Zhihua Ma¹

1. Manchester Metropolitan University, Manchester, United Kingdom; 2. Lancaster University, Lancaster, United Kingdom

A Study of Offshore Wind Turbine Wake Effects in Yaw Conditions Using an Improved Actuator Line Method OMAE2022-79515

Ning Fan, Kangping Liao, Qian Wang

Harbin Engineering University, Harbin, China (Mainland)

Structural Load Estimation of Downstream Wind Turbines in an Offshore Wind Farm OMAE2022-80883

Yiqing Xia, Yosuke Matsumoto, Iman Yousefi, Kazuyoshi Oouchi, Shunsuke Kaneko, Michio Nittouji, Kenji Fujii, Kaho Machida
Tokyo Electric Power Services Co., Ltd., Tokyo, Japan

The Effects of Hydrodynamic and Aerodynamic Loads on the Low Frequency Responses of Floating Offshore Wind Turbines OMAE2022-79879

Edward Land¹ Will Brindley² Zhiqiang Hu³

1. Newcastle University, Hull, United Kingdom; 2. Offshore Renewable Energy Catapult, Blyth, United Kingdom; 3. Newcastle University, Newcastle upon Tyne, United Kingdom

Ocean Renewable Energy

09-02-05 WEC Controls and PTO I

Wednesday June 8 | Room Y8 | 11:00–12:30

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Nonlinear Model Predictive Control Based on Real-time Iteration Scheme for Wave Energy Converters Using WEC-Sim OMAE2022-80972

Juan Luis Guerrero-Fernandez¹ Nathan Michael Tom² John Anthony Rossiter¹

1. University of Sheffield, Sheffield, United Kingdom; 2. National Renewable Energy Laboratory, Boulder, CO, USA

Experimental Investigation on a Speed Controlled Wells Turbine for Wave Energy Conversion OMAE2022-80986

Fabio Licheri, Pierpaolo Puddu, Francesco Cambuli, Tiziano Ghisu

Department of Mechanical, Chemical and Materials Engineering, University of Cagliari, Cagliari, Italy

Energy-maximising Control Philosophy for a Cyclorotor Wave Energy Device OMAE2022-80990

John V. Ringwood, Andrei Ermakov

Maynooth University, Maynooth, Ireland

Stochastic Response Determination of U-Oscillating Water Columns in Severe Seas by a Statistical Linearization Scheme OMAE2022-81138

Andrea Scialò¹ Giovanni Malara¹ Ioannis A. Kougoumtzoglou² Felice Arena¹

1. Mediterranean University of Reggio Calabria, Reggio Calabria, Italy; 2. Columbia University, New York, NY, USA

Petroleum Technology

11-01-01 Well Drilling Technology I

Wednesday June 8 | Room Y10 | 11:00–12:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Stephen Butt, Memorial University of Newfoundland, Canada; Mohammad Azizur Rahman, Texas A&M University at Qatar, Qatar

Modeling and Analysis of Non-rotating Damping Subs for Removing Torsional Vibrations in Drilling OMAE2022-78339

Adrian Ambrus, Ulf Jakob Aarsnes, Eric Cayeux, Rodica Mihai

NORCE, Bergen, Norway

Modeling and Algorithm Development for Well Trajectory Plan and Real-time Trajectory Control OMAE2022-78451

Luis Saavedra Jerez, Dan Sui

University of Stavanger, Stavanger, Norway

Design and Evaluation of Wellbore Strengthening Materials for Fractured Reservoirs OMAE2022-78659

Ugur Gargili¹ Ismail Hakki Gucuyener¹ Ismail Durgut² Ahmet Ay¹ Huseyin Ali Dogan¹

1. GEOS Energy Inc., Cankaya, Turkey; 2. Middle East Technical University, Cankaya, Turkey

Drilling Performance Evaluation through Bit Cutters Reconfigurations and Micro Fractures Initiation OMAE2022-79273

Abdelsalam Abugharara, Oluwafemi Tytler, Stephen Butt

Memorial University of Newfoundland, St. John's, NL, Canada

Petroleum Technology

11-08-01 Production Systems and Subsea Operations

Wednesday June 8 | Room Y11 | 11:00–12:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Marcio Yamamoto, National Maritime Research Institute, Japan; Sergio N. Bordalo, University of Campinas, Brazil

Oscillation of a Flexible Catenary Shaped Submersed Pipe Induced by Two-phase Slug Flow of Liquid and Gas OMAE2022-79985

Jéssica Palma Silva¹ Celso K. Morooka¹ Sergio N. Bordalo¹ Caio C. O. Trigo²

1. Universidade Estadual de Campinas, Faculdade de Engenharia Mecânica, Departamento de Engenharia de Petróleo., Campinas, SP, Brazil; 2. Universidade Estadual de Campinas, Centro de Estudos de Petróleo., Campinas, SP, Brazil

The Dynamic-Static Coupled Full Field Optimization of ICD/AICD Completion for the Pilot Wells Selection and Design in N Oilfield Middle East OMAE2022-80143

Bohong Wu¹ Shuzhe Shi¹ Jing Liu² Chenji Wei¹ Yong Li¹ Baozhu Li¹ Yuankeli Lou³ Tao Yu³

1. The Research Institute of Petroleum Exploration and Development, CNPC, Beijing, China (Mainland); 2. Schlumberger, Beijing, China (Mainland); 3. The Research Institute of Petroleum Exploration and Development, Beijing, China (Mainland)

A More Accurate Approach for the Design of Subsea Chemical Storage Systems regarding Volume Requirements of Valve Leakage Tests OMAE2022-80637

Lucas Sevillano, Sigbjørn Sangesland, Tor Berge Gjersvik, Audun Faanes

Norwegian University of Science and Technology, Trondheim, Norway

Influence of Pigging Velocity on the Wax Removal Process in Subsea Pipelines OMAE2022-79456

Xun Zhang, Qiyu Huang, Wei Chen

China University of Petroleum Beijing, Beijing, China (Mainland)

CONCURRENT SESSIONS

13:30 – 15:00

Offshore Technology

01-05-01 FLNG Technology I

Wednesday June 8 | Room Y1 | 13:30–15:00

Session Organizer: Marc Cahay, Technip Energies, France

Session Co-Organizer: Wenhua Zhao, University of Western Australia, Australia

Development of Design Procedure for LNG Carriers with IMO Type-B Independent Tank OMAE2022-79445

Beomil Kim, Md Shafiqul Islam

Korean Register, Busan, Korea

Validation of a Simplified Numerical FLNG-Carrier Side-by-Side Offloading Model with Experiment OMAE2022-79449

Yutao Wang, Hugh Wolgamot, Wenhua Zhao, Scott Draper, Ian Milne

University of Western Australia, Crawley, WA, Australia

Influence of Gap Width and Artificial Damping on Gap Resonance OMAE2022-80758

Ivan Ekerhovd¹ Muk Chen Ong¹ Wenhua Zhao²

1. University of Stavanger, Stavanger, Norway; 2. University of Western Australia, Perth, WA, Australia

Structures, Safety and Reliability

02-11-02 Ultimate Strength II

Wednesday June 8 | Room Hall F | 13:30–15:00

Session Organizer: Carlos Guedes Soares, IST, University of Lisbon, Portugal

Session Co-Organizer: Thomas Lindemann, University of Rostock, Germany

Ultimate Strength Characteristics of Cylindrical Shell in Combined Compression and Bending Moment OMAE2022-79566

Shen Li¹ Do Kyun Kim² Simon Benson³

1. University of Strathclyde, Glasgow, United Kingdom; 2. Seoul National University, Seoul, Korea; 3. Newcastle University, Newcastle upon Tyne, United Kingdom

Numerical Investigations on Ultimate Strength of a Double Hull VLCC under Combined Loads and Initial Imperfections OMAE2022-80204

Thomas Lindemann¹ Bright Ebikemefa Okpeke¹ Alessandro La Ferlita² Markus Mühmer³ Patrick Kaeding¹

1. University of Rostock, Rostock, Germany; 2. American Bureau of Shipping, ABS Europe Ltd., Hamburg, Germany; 3. German Aerospace Center, Institute of Maritime Energy Systems, Geesthacht, Germany

Structures, Safety and Reliability

02-16-01 Data-driven Models for Marine Structures I

Wednesday June 8 | Room Hall E | 13:30–15:00

Session Organizer: YeongAe Heo, Case Western Reserve University, USA

Session Co-Organizer: Marco Klein, Hamburg University of Technology, Germany

Artificial Neural Network Surrogate Modeling for Offshore Wind Turbines under Multi-hazards OMAE2022-81048

Xiaowei Wang, YeongAe Heo

Case Western Reserve University, Cleveland, OH, USA

A Study on the Error Characteristics and Compensation Algorithm for Strain Gauge in Ship Structure Monitoring Systems OMAE2022-81437

Xueqian Zhou, Yu Yang, Yishi Xu, Chenfeng Li, Huilong Ren

Harbin Engineering University, Harbin, China (Mainland)

Digital Twin Based Structural Health Monitoring of Offshore Crane OMAE2022-85896

Terje Rølvåg¹ Øystein Stranden²

1. SINTEF / Norwegian University of Science and Technology, Trondheim, Norway; 2. SAP, Trondheim, Norway

Pipeline, Risers, and Subsea Systems

04-02-03 Rigid Risers III

Wednesday June 8 | Room Y2 | 13:30–15:00

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

Weight Optimisation of Steel Catenary Riser Using Genetic Algorithm and Finite Element Analysis OMAE2022-79084

Joshua Abam, Yongchang Pu, Zhiqiang Hu

Newcastle University, Newcastle upon Tyne, United Kingdom

Cost-Effective Optimal Solutions for Steel Catenary Riser Using Artificial Neural Network OMAE2022-79044

Joshua Abam, Yongchang Pu, Zhiqiang Hu

Newcastle University, Newcastle upon Tyne, United Kingdom

Application of Artificial Intelligence for VIV Strake Optimization of Steel Lazy Wave Risers OMAE2022-80480

Mayank Lal, Abhilash Sebastian, Yashpal Rana

TechnipFMC, Houston, TX, USA

A Novel Free-Standing Riser Concept for Deepwater Developments OMAE2022-85000

Carlos Bomfimsilva¹ Theodoro Netto²

1. Pré-Sal Petróleo, Niterói, RJ, Brazil; 2. Universidade Federal do Rio de Janeiro, Niterói, RJ, Brazil

Ocean Space Utilization

05-05-02 Floating System for Renewable Energy II

Wednesday June 8 | Room Y3 | 13:30–15:00

Session Organizer: Shigeru Tabeta, The University of Tokyo, Japan

Hydrodynamic Performance Evaluation of a Semi-submersible Floater Using Open-source Tools OMAE2022-78823

Lin Li¹ Milad Hassani¹ Filippas Kalofotias² Zhiyu Jiang³

1. University of Stavanger, Stavanger, Norway; 2. Vorticity Engineering, Bussum, Netherlands;
3. Department of Engineering Sciences, University of Agder, Norway, Grimstad, Norway

Motion Characteristics of a Floating Model with Moonpools for VAWTs OMAE2022-79153

Katsuhide Fujishima¹ Tomoki Ikoma¹ Yasuhiro Aida¹ Lei Tan² Koichi Masuda¹

1. Nihon University, Funabashi, Japan; 2. Kyushu University, Funabashi, Japan

Design and Global Performance of a Semi-submersible Floating Offshore Wind Turbine System OMAE2022-79323

Xiaohua Shi¹ Yongming Cheng² Yang Shen³ Chunhui Shou³ Zhuyu Chu¹ Gan Lin¹

1. Zhejiang Zheneng Jiaying Offshore Wind Energy CO., LTD, Jiaying, China (Mainland); 2. Beaver Offshore, LLC, Katy, TX, USA; 3. Zhejiang Energy R&D Institute, Hanzhou, China (Mainland)

Stochastic Weather Window Analysis in Operations and Maintenance Planning Policies for Offshore Floating Multi-Purpose Platforms OMAE2022-79353

Taemin Heo, Ding Peng Liu, Lance Manuel

The University of Texas at Austin, Austin, TX, USA

Ocean Engineering

06-08-01 Model Tests

Wednesday June 8 | Room Y4 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Alessandro Iafrati, CNR, Italy; David Molyneux, Memorial University of Newfoundland, Canada; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom; Joel Sales Junior, Universidade Federal do Rio de Janeiro, Brazil

Wave Flume Test on Launch and Recovery of ROV under Randomly Generated Waves OMAE2022-79356

Michael Binsar Lubis, Mehrdad Kimiaei

University of Western Australia, Crawley, WA, Australia

Hydrodynamic Performance of Floating Pontoon Type Breakwater with Skirt Walls and Different Porosity OMAE2022-80202

Neelamani Subramaniamkuwait, Alanoud Al-Ragum

Kuwait Institute for Scientific Research, Shuwaikh, Kuwait

Propeller Wake Measurement and Uncertainty Assessment by a Towing-Tank LDV OMAE2022-81133

Xin Long, Liwei Liu, Zhiguo Zhang, Bin Ye, Xianzhou Wang

Huazhong University of Science and Technology, Wuhan, China (Mainland)

On the Quality of Laboratory Water Waves Generated Mechanically by Flap Wavemakers OMAE2022-81324

Sebastien Fouques¹ Andreas Akselsen¹ Trevor Harris² Kent Brett²

1. SINTEF Ocean, Trondheim, Norway; 2. National Research Council of Canada, St. John's, NL, Canada

Polar and Arctic Sciences and Technology

07-07-01 Marine Propulsion System Under Ice Impact

Wednesday June 8 | Room Y5 | 13:30–15:00

Session Organizer: Daniela Myland, HSVA, Germany

Session Co-Organizer: Gesa Ziemer, DLR, Germany

Splitting-Tests of Laboratory-made Granular Ice with a Propeller-like Indenter OMAE2022-78186

Angelo Mario Böhm, Hauke Herrnring, Franz von Bock und Polach

Hamburg University of Technology, Hamburg, Germany

Verification of Inverse Propeller Moment Estimation Using a Scale Laboratory Rig OMAE2022-78787

Brendon Nickerson, Jaco Laas, Anriette Bekker

Stellenbosch University, Stellenbosch, South Africa

Procedure for Torsional-Vibration Calculations in Ice OMAE2022-80194

Gunnar Kistner¹ Kevin Lal² Jörn Klüss² Patrick Kaeding¹

1. University of Rostock, Rostock, Germany; 2. Mecklenburger Metallguss GmbH, Waren, Germany

Hydrodynamic and Mechanic Response of a Floating Flexible Ice Floe in Regular Waves with the ICFD Method OMAE2022-78878

Jonas Behnen¹ Rüdiger U. Franz von Bock und Polach² Marco Klein³ Sören Ehlers⁴

1. Technical University Hamburg, Münster, Germany; 2. Institute for Ship Structural Design and Analysis (M-10), Hamburg, Germany; 3. Institute for Structural Dynamics (M-14), Hamburg, Germany; 4. DLR Institute for Maritime Energy Systems, Hamburg, Germany

CFD and VIV

08-05-02 Free Surface Flows II

Wednesday June 8 | Room Y6 | 13:30–15:00

Session Organizer: Hans Bihs, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Owen Oakley, Retired, USA

On Simulating Variability of Sloshing Loads in LNG Tanks OMAE2022-81105

Ronald Remmerswaal, Arthur Veldman

University of Groningen, Groningen, Netherlands

Numerical Simulation of the Wave-Induced Drift of Floating Marine Plastic Debris Modeled as Discrete Particles OMAE2022-79108

Bruno Sainte-Rose¹ Andriarimina Rakotonirina¹ Ton Van Den Bremer² Yannick Pham¹

1. The Ocean Cleanup, Rotterdam, Netherlands; 2. Delft University of Technology, Delft, Netherlands

Solitary Wave Propagation Using a Novel Single Fluid Finite Volume Method for Free Surface Gravity Waves OMAE2022-80255

Jesper Roland Kjærgaard Qvist, Erik Damgaard Christensen

Technical University of Denmark, Kgs. Lyngby, Denmark

Enhancements of Computational Fluid Dynamics Analysis of Air Entrapment and Fluid-Structure Interaction during Plate Entry to Water through VoF-Slip and Adaptive Discretization Schemes OMAE2022-80796

Philipp Mucha¹ Minyee Jiang² Raymond Bay²

1. Siemens Digital Industries Software, Houston, TX, USA; 2. NSWC, Carderock Division, West Bethesda, MD, USA

Ocean Renewable Energy

09-01-12 Experimental Methods

Wednesday June 8 | Room Y7 | 13:30–15:00

Session Organizer: Seung-yoon HAN, Ecole Centrale Nantes, France

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

On the Real Time Hybrid Modelling of Floating Offshore Wind Turbine Using Ducted Fan(s) OMAE2022-78985

Alexandre Cinello¹ François Pétrié¹ Benjamin Rousse¹ Cédric Le Cunff²

1. Océanide, La Seyne sur Mer, France; 2. PRINCIPIA, La Ciotat, France

Experimental Analysis of Mooring and Power Cable Dynamics when Using Elastic String Models OMAE2022-79834

Miguel Somoano, David Blanco, Alvaro Rodriguez-Luis, Raul Guancho

IHCantabria - Instituto de Hidráulica Ambiental de la Universidad de Cantabria, Santander, Spain

Experimental Study of the Effect of Heave Plate Dimensions on the Flow-induced Motions (FIM) of a Multi-column Floating Offshore Wind Turbine (FOWT) OMAE2022-80344

Rodolfo Trentin Gonçalves¹ Edgard Borges Malta² Alexandre Nicolaos Simos³ Shinichiro Hirabayashi⁴ Hideyuki Suzuki⁵

1. The University of Tokyo, Tokyo, Japan; 2. Technomar Engenharia Oceanica, São Paulo, SP, Brazil; 3. University of São Paulo, São Paulo, SP, Brazil; 4. The University of Tokyo, Kashiwa-shi, Japan; 5. The University of Tokyo, Bunkyo-ku, Japan

Model Test and Validation of the Crown Floating Offshore Wind Turbine OMAE2022-81065

Wei Yu¹ Lemmer Frank² Katja Lehmann² Po Wen Cheng¹ Santiago De Guzmán³ Jaime Moreu³ Tommaso Battistella⁴

1. Stuttgart Wind Energy (SWE) @ Institute of Aircraft Design, University of Stuttgart, Germany, Stuttgart, Germany; 2. Sowento GmbH, Stuttgart, Germany; 3. Seaplace SL, Madrid, Spain; 4. Environmental Hydraulics Institute of Cantabria, Santander, Spain

Ocean Renewable Energy

09-02-06 WEC Controls and PTO II

Wednesday June 8 | Room Y8 | 13:30–15:00

Session Organizer: Masoud Hayatdavoodi, University of Dundee, United Kingdom

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Nonlinear Moment-based Optimal Control of Wave Energy Converters with Non-ideal Power Take-off Systems OMAE2022-81267

Nicolas Faedo¹ Giuseppe Giorgi² John Vincent Ringwood³ Giuliana Mattiazzo²

1. Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Torino, Italy; 2. Politecnico di Torino, Torino, Italy; 3. Maynooth University, Maynooth, Ireland

A Combined Nonlinear Mooring-line and Umbilical Cable Dynamics Model and Application OMAE2022-81470

Solomon Yim¹ Ming Chen¹ Shangmao Ai²

1. Oregon State University, Corvallis, OR, USA; 2. Harbin Engineering University, Harbin, China (Mainland)

Influence on Structural Loading of a Wave Energy Converter by Controlling Variable-Geometry Components and the Power Take-off OMAE2022-81518

Salman Husain¹ Jacob Davis² Nathan Tom³ Krish Thiagarajan² Cole Burge⁴ Nhu Nguyen⁵

1. National Renewable Energy Laboratory (NREL), Hancock, MI, USA; 2. University of Massachusetts, Amherst, MA, USA; 3. National Renewable Energy Laboratory (NREL), Golden, CO, USA; 4. University of Washington, Amherst, MA, USA; 5. University of Massachusetts, Amherst, MA, USA

Mitigating Force Oscillations in a Wave Energy Converter Using Control Barrier Functions OMAE2022-82707

Mathias Marley¹ Roger Skjetne²

1. Department of Marine Technology, Norwegian University of Science and Technology, Oslo, Norway; 2. Department of Marine Technology, Norwegian University of Science and Technology, Trondheim, Norway

Petroleum Technology

11-05-02 Well Cementing Theory and Practice II

Wednesday June 8 | Room Y10 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Seyed Mohammad Taghavi, Laval University, Canada;
Ian Frigaard, University of British Columbia, Canada

Jet Cleaning Processes in the Plug and Abandonment of Oil and Gas Wells: an Experimental Study on Horizontal Miscible Jets OMAE2022-79424

Hossein Hassanzadeh, Elliott Cournoyer, Seyed Mohammad Taghavi
Laval University, Quebec City, QC, Canada

Modeling Squeeze Cementing: a Micro Structure Based Continuum Model OMAE2022-79461

Mahdi Izadi¹ Ian Frigaard¹ Seyed Mohammad Taghavi²

1. University of British Columbia, Vancouver, BC, Canada; 2. Laval University, Quebec City, QC, Canada

Experimental Study of Newtonian Laminar Annular Horizontal Displacement Flows with Rotating Inner Cylinder OMAE2022-79753

Heeseok Jung, Ian Frigaard, Ruizi Zhang, Alondra Renteria
University of British Columbia, Vancouver, BC, Canada

Experimental Investigation of Flow Velocity Dispersion in Annuli OMAE2022-79937

Jan David Ytrehus¹ Bjørnar Lund² Ali Taghipour² Arild Saasen³

1. SINTEF Petroleum, Trondheim, Norway; 2. SINTEF, Trondheim, Norway; 3. University of Stavanger, Stavanger, Norway

Petroleum Technology

11-13-01 Digitalization of Subsurface, Well Systems, Subsea Systems and Operations

Wednesday June 8 | Room Y11 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Rajiv Aggarwal, Consultant, USA; Mayank Tyagi, Louisiana State University, USA

Design and Demonstration of Autonomous Directional Drilling with a Miniature Scale Rig OMAE2022-80314

Magnus Steinstø¹ Gaute Hånsnar¹ Benedicte Gjersdal¹ Trygve Mikal Viga Skretting² Alexey Pavlov¹ Fred Florence³

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. Norwegian University of Science and Technology, Sandnes, Norway; 3. Rig Operations, LLC, Austin, TX, USA

Designing Subsea Processing Systems Using a Hybrid Genetic Algorithm OMAE2022-78647

Leonardo Sales, Johannes Jäschke, Milan Stanko

Norwegian University of Science and Technology, Trondheim, Norway

A Deep Learning Approach for Underwater Leak Detection OMAE2022-79757

Viviane Ferreira Da Silva, Theodoro Netto, Bessie Ribeiro

Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil

CONCURRENT SESSIONS

15:30 – 17:30

Offshore Technology

01-08-02 Digitalization, AI, Neural Networks, ML II

Wednesday June 8 | Room Y1 | 15:30–17:30

Session Organizer: Rajiv Aggarwal, Consultant, USA

Session Co-Organizer: Denby Morrison, Shell, USA

A Stochastic Approach to Short-term Ocean Wave Forecasting: Preliminary Results Using Data from a Remote Sensing Imaging System OMAE2022-81067

Alexis Mérigaud¹ Paolino Tona²

1. IFP Energies nouvelles, Rueil-Malmaison, France; 2. IFP Energies nouvelles, Lyon, France

Applying Open Web Architectures towards Collaborative Maritime Design and Simulation OMAE2022-81505

Felipe Oliveira, Icaro Fonseca, Henrique Gaspar

Norwegian University of Science and Technology, Ålesund, Norway

Sequential Images for Dynamic Features and the Classification of Wave Breaking OMAE2022-79817

Ryan Smith¹ Frederic Dias¹ Gabriele Facciolo² Thomas B. Murphy¹

1. University College Dublin, Dublin, Ireland; 2. ENS Paris-Saclay, Gif-sur-Yvette, France

Assessment of Situation Awareness for Seafarers Using Eye-tracking Data OMAE2022-80754

Satinder Singh Virdi¹ Yong Thiang Ng² Yisi Liu² Kelvin Tan² Daniel Zhang²

1. Singapore Maritime Academy, Singapore Polytechnic, Singapore, Singapore;

2. CEMS, Singapore Polytechnic, Singapore, Singapore

Structures, Safety and Reliability

02-03-01 Probabilistic Response Models

Wednesday June 8 | Room Hall F | 15:30–17:30

Session Organizer: Lance Manuel, University of Texas at Austin, USA

Session Co-Organizer: Erik Vanem, DNVGL, Norway

The Impact of Climate Change on Offshore Operations and Design Considerations for Offshore Vessels and Installations OMAE2022-79274

Jordan Rosen¹ Hemant Thurumella² Jon Gumley³ Kanishka Jayasinghe¹ Andrew Kilner²

1. AMOG Pty Ltd, Notting Hill, VIC, Australia; 2. AMOG Consulting Inc., Houston, TX, USA; 3. AMOG Pty Ltd, Notting Hill, VIC, Australia

Wave Attenuation Performance of Arranging a Rectangular Buoy in a Perforated Caisson Using Quadratic Pressure Drop Condition OMAE2022-79289

Yuhan Wang, Sheng Dong

Ocean University of China, Qingdao, China (Mainland)

Short-Term Extreme Response Prediction for a Jacket Platform

Subjected to Nonlinear Wave Loads OMAE2022-80095

Xiangpeng Yu¹ Wei Chai¹ Bernt Leira² Jian Gu³

1. Wuhan University of Technology, Wuhan, China (Mainland); 2. Norwegian University of Science and

Technology, Trondheim, Norway; 3. China Ship Scientific Research Center, Wuxi, China (Mainland)

A Risk-Based Approach to Determine Mobile Offshore Drilling Unit Disconnect Criteria OMAE2022-81122

Stian Garlid¹ Torfinn Hørte² Lorents Reinås¹

1. Equinor ASA, Stavanger, Norway; 2. DNV, Høvik, Norway

A Kalman Filtering Technique for Prediction of Wave Time Histories around Ship Based on Response Measurements and its Experimental Validation OMAE2022-82308

Yusuke Komoriyama¹ Kazuhiro Iijima² Masahiko Fujikubo²

1. National Institute of Maritime, Port and Aviation Technology, Tokyo, Japan; 2. Osaka University, Suita, Japan

Structures, Safety and Reliability

02-16-02 Data-driven Models for Marine Structures II

Wednesday June 8 | Room Hall E | 15:30–17:30

Session Organizer: YeongAe Heo, Case Western Reserve University, USA

Session Co-Organizer: Marco Klein, Hamburg University of Technology, Germany

Estimation of Still-Water Bending Moment of Ship Hull Girder Using Beam Finite Element Model and Ensemble Kalman Filter OMAE2022-78630

Akira Tatsumi, Kazuhiro Iijima, Masahiko Fujikubo

Osaka University, Suita, Japan

Motion Response Prediction of Marine Vessels Based on Hydrodynamic Models Updated through On-site Measurements OMAE2022-78912

Gowtham Radhakrishnan, Bernt Johan Leira, Zhen Gao, Svein Sævik, Alojz Gomola

Norwegian University of Science and Technology, Trondheim, Norway

Automated Modal Parameters Identification during Ice-Structure Interactions OMAE2022-81075

Chunlin Wang, Torodd Skjerve Nord, Guoyuan Li

Norwegian University of Science and Technology, Ålesund, Norway

An Impact Load Identification Method Based on Green's Kernel Function OMAE2022-81427

Xueqian Zhou¹ Yishi Xu¹ Yu Yang¹ Gang Lu² Huilong Ren¹

1. Harbin Engineering University, Harbin, China (Mainland); 2. China Ship Development and Design Center, Wuhan, China (Mainland)

Pipeline, Risers, and Subsea Systems

04-03-01 Rigid Pipelines I

Wednesday June 8 | Room Y2 | 15:30–17:30

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

Pipeline Reel-Lay FE Simulation: an Advanced Material Model Calibrated from Testing OMAE2022-79856

Eric Giry¹ Chen Shen² Richard Stableford²

1. Saipem SA, Montigny Le Bretonneux, France; 2. Saipem SA, Montigny-Le-Bretonneux, France

Methodology for Installation of Under-straight Pipe for Lateral Buckling Mitigation OMAE2022-79862

Alan Roy¹ Thurairajah Sriskandarajah² Suwarno Gunawan² Pasupathy Ragupathy²

Graeme Roberts² Yasin Kassim² Markus Cederfeldt³

1. Subsea 7, Banstead, United Kingdom; 2. Subsea 7, Sutton, United Kingdom; 3. Subsea 7, Stavanger, Norway

A Journey from Daily Engineering to Machine Learning, Application to Rigid Pipeline Reel-Laying OMAE2022-79870

François-Guillaume Capelle, Jonas Durand-Gasselín, Eric Giry, Amandine Laye

Saipem SA, Montigny-Le-Bretonneux, France

A Trawl Net Model Tailor-made for Simulation of Pipeline and Trawl Board Pull-over Interaction OMAE2022-79216

Vegard Longva¹ Erik Levold² Håvar Ilstad²

1. SINTEF Ocean, Trondheim, Norway; 2. Equinor, Ranheim, Norway

Simulation of Trawl Board and Pipeline Pull-over Interaction OMAE2022-79928

Vegard Longva¹ Erik Levold² Håvar Ilstad² Svein Sævik³ Frank Klæbo¹ Marie Finstad Opgård² Stefan Arenfeldt Vilsen⁴

1. SINTEF Ocean, Trondheim, Norway; 2. Equinor, Ranheim, Norway; 3. Norwegian University of Science and Technology, Trondheim, Norway; 4. DNV, Copenhagen, Denmark

Collapse of Jco-E Pipes; Experiments and Numerical Predictions OMAE2022-79129

Ilias Gavriilidis¹ Aris Stamou¹ Athanasios Tazedakis² Nikos Voudouris²

Christos Palagas² Efthimios Dourdounis² Spyros Karamanos¹

1. University of Thessaly, Volos, Greece; 2. Corinth Pipeworks SA, Thisvi, Greece

Ocean Space Utilization

05-05-03 Floating System for Renewable Energy III

Wednesday June 8 | Room Y3 | 15:30–17:30

On Common Research Needs for the Next Generation of Floating Support Structures OMAE2022-79167

Vegard Aksnes¹ Hagbart Alsos¹ Erin Bachynski-Polić² Petter Andreas Berthelsen¹ Virgile Delhaye³
Birgitte Rugaard Furevik⁴ Hans Petter Jostad⁵ Trygve Kristiansen² Babak Ommani¹

1. SINTEF Ocean, Trondheim, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway;
3. SINTEF Industry, Trondheim, Norway; 4. MET Norway, Bergen, Norway; 5. NGI, Oslo, Norway

Experimental Investigation on a Cabin-suspended Catamaran for Wave Energy Harvesting OMAE2022-79503

Jialin Han¹ Qiao Li² Akito Mochizuki² Teruo Maeda³ Hiroshi Itakura² Daisuke Kitazawa²

1. Osaka Prefecture University, Osaka, Japan; 2. The University of Tokyo, Kashiwa-shi, Japan; 3. Management Strategy Corporation, Yokohama, Japan

Real-Time Prediction of Incoming Wave Profile Surrounding Floating Offshore Wind Turbine Using Kalman Filter OMAE2022-79636

Rodhiatul Isnaini, Kenta Toichi, Kazuhiro Iijima, Akira Tatsumi
Osaka University, Suita, Japan

Numerical Simulations for Impacts of Offshore Wind Power Facilities on Currents and Water Quality OMAE2022-78999

Koki Miki, Shigeru Tabeta, Katsunori Mizuno
The University of Tokyo, Kashiwa, Japan

Ocean Engineering

06-07-02 Metocean, Measurement and Data Interpretation II

Wednesday June 8 | Room Y4 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Alessandro Iafrazi, CNR, Italy; Kevin Ewans, MRL, New Zealand; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Masoud Hayatdavoodi, University of Dundee, United Kingdom

Estimating Joint Extremes of Significant Wave Height and Wind Speed for Tropical Cyclones OMAE2022-79888

Kosuke Sando¹ Ryota Wada¹ Jeremy Rohmer² Sophie Lecacheux² Philip Jonathan³

1. The University of Tokyo, Kashiwa, Japan; 2. Bureau de Recherches Géologiques et Minières, Orléans Cedex 2, France;
3. Shell Research Ltd and Department of Mathematics and Statistics, Lancaster University, London, United Kingdom

Metocean Database of the North Sea OMAE2022-80407

Kai Chu, Alexander Breugem, Boudewijn Decrop
IMDC, Antwerp, Belgium

ISM-Based Study on the Constraints of Yangtze River Mainline Fleet Transportation Development in the Context of Green Intelligence OMAE2022-80642

yinhua Yang, Yan Jin
Wuhan University of Technology, Wuhan, China (Mainland)

Wind Profile and Structure during Severe Storms in the Gulf of Mexico OMAE2022-86835

Suvabrata Das¹ Soma S Maraju¹ Shejun Fan² Pak Leung² Cristina C Zwissler²
1. BMT Commercial USA Inc., Houston, TX, USA; 2. Shell International Exploration and Production, Inc., Houston, TX, USA

Ocean Engineering

06-12-02 Ship Hydromechanics II

Wednesday June 8 | Room Y9 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Rodrigo Soares, Federal University of Rio de Janeiro, Brazil; Ye Li, Shanghai Jiao Tong University, China (Mainland); Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; João Victor Padilha, Universidade Federal do Rio de Janeiro, Brazil

A Contrastive Study of Two-time Scaled Method and Unified Method in Maneuverability-in-Waves OMAE2022-79532

Chengqian Ma, Ning Ma, Xiechong Gu

Shanghai Jiao Tong University, Shanghai, China (Mainland)

Kinetic Characteristics and Hydrodynamic Forces on Semi-planing Typed High-Speed Vehicle by Model Test and RANS Simulation OMAE2022-80248

Kenta Hasegawa¹ Motoki Araki¹ Kei Ishida¹ Kazuhiro Yukawa¹ Shota Saito² Ryoya Sano² Keisuke Uemura²

1. National Maritime Research Institute, National Institute of Maritime, Port and Aviation Technology, Mitaka, Japan; 2. Ground Systems Research Center, Acquisition, Technology & Logistics Agency, Ministry of Defense, Sagamihara, Japan

Moment Loads on a Two-Dimensional Turret-Moored Vessel under Forced Motion OMAE2022-81219

Feifei Tong, Hugh Wolgamot, Scott Draper

University of Western Australia, Perth, WA, Australia

Ship Path following Control via Output Redefinition Method in Restricted Waters OMAE2022-81422

Xueqian Zhou¹ Ping Xin¹ Dezheng Jia¹ Jin Huang¹ Donghao Xu²

1. Harbin Engineering University, Harbin, China (Mainland); 2. Harbin University of Science and Technology, Harbin, China (Mainland)

Ocean Engineering

06-15-01 Unsteady Hydrodynamics, Vibrations, Acoustics and Propulsion

Wednesday June 8 | Room Y12 | 15:30–17:30

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Allan Magee, National University of Singapore, Singapore; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Yihan Xing, University of Stavanger, Norway

Marine Ducted Thruster Underwater Radiated Noise Control through Leading-edge Tubercle Blade Modifications – a Numerical Hybrid Approach OMAE2022-78157

Callum Stark, Weichao Shi, Yunxin Xu, Moritz Troll

University of Strathclyde, Glasgow, United Kingdom

A Dynamical System for the Combined Performance of Innovative Biomimetic Thruster with Standard Propulsion System in Waves OMAE2022-78811

Kostas Belibassakis, Evangelos Filippas

National Technical University of Athens, Athens, Greece

Noise Generation and Propagation from Flapping-Foil Thrusters Used for Marine Propulsion OMAE2022-79699

Iro Malefaki, Angeliki Karperaki, Kostas Belibassakis

National Technical University of Athens, Athens, Greece

Calculation of Thrust and Torque of a Tandem Propeller Using a Combined Vortex Lattice Lifting Line Method OMAE2022-80803

Andreas Buesken, Stefan Krueger

Hamburg University of Technology, Hamburg, Germany

Numerical Analysis and Evaluation of the Sound Source in the Sea, Taking into Account Changes in Sound Velocity, Emission Angles, Bed Roughness and the Presence of the Object OMAE2022-81076

Roya Shademani

IDRO, Tehran, Iran

Polar and Arctic Sciences and Technology

07-09-01 Scenario-based Risk Management for Ice-covered Waters: LRF – CEPOLAR Activities

Wednesday June 8 | Room Y5 | 15:30–17:30

Session Organizer: Pentti Kujala, Aalto University, Finland

Session Co-Organizer: Sören Ehlers, Hamburg University of Technology, Germany

Cepolar Activities to Develop Recommended Practice for Scenario-based Risk Management for Icy Waters OMAE2022-80721

Pentti Kujala

Aalto University, Aalto, Finland

Holistic, Quantitative and Spatiotemporally Explicit Oil Spill Risk Assessment in Marine Arctic OMAE2022-80903

Jarno Vanhatalo¹ Inari Helle²

1. University of Helsinki, Helsinki, Finland; 2. Natural Resources Institute Finland, Helsinki, Finland

An Evaluation of Consequence Severity of Ship Evacuations in the Canadian Arctic OMAE2022-79514

Thomas Browne¹ Allison Kennedy² Caitlin Piercey¹ Jonathan Power² Brian Veitch³

1. Memorial University of Newfoundland, St. John's, NL, Canada; 2. National Research Council of Canada - Ocean, Coastal and River Engineering, St. John's, NL, Canada; 3. Memorial University of Newfoundland, Faculty of Engineering and Applied Science, St. John's, NL, Canada

General Review and Analysis of Research in CEARTIC and CEPOLAR Projects OMAE2022-81327

Liangliang Lu¹ Sakari Kuikka² Pentti Kujala¹

1. Aalto University, Espoo, Finland; 2. University of Helsinki, Helsinki, Finland

Scenario-based Risk Management for Arctic Waters OMAE2022-80767

Martin Bergström¹ Thomas Browne² Sören Ehlers³ Inari Helle⁴ Hauke Herrring³ Faisal Khan²

Jan Kubiczek³ Pentti Kujala¹ Mihkel Kõrgesaar⁵ Bernt Johan Leira⁶ Tuuli Parviainen⁷ Arttu Polojärvi¹

Mikko Suominen¹ Taylor Rocky² Jukka Tuhkuri¹ Jarno Vanhatalo⁸ Brian Veitch²

1. Aalto University, Department of Mechanical Engineering, Espoo, Finland; 2. Memorial University of Newfoundland, Faculty of Engineering and Applied Science, St. John's, NL, Canada; 3. Hamburg University of Technology, Institute for Ship Structural Design and Analysis, Hamburg, Germany; 4. University of Helsinki, Organismal and Evolutionary Biology Research Programme, Helsinki, Finland; 5. Tallinn University of Technology, Estonian Maritime Academy / Aalto University, Department of Mechanical Engineering, Tallinn, Estonia; 6. Norwegian University of Science and Technology, Department of Marine Technology, Trondheim, Norway; 7. University of Helsinki, Ecosystems and Environment Research Programme, Helsinki, Finland; 8. University of Helsinki, Department of Mathematics and Statistics, Helsinki, Finland

CFD and VIV

08-03-01 Waves, Motions, Impact

Wednesday June 8 | Room Hall D | 15:30–17:30

Session Organizer: Tim Bunnik, MARIN, Netherlands

Session Co-Organizer: Owen Oakley, Retired, USA

Seakeeping of a Rectangular Barge with Skirts – from Model Tests to Numerical Wave Tank Simulations OMAE2022-79239

Gerard Fernandez, Mamoun Naciri

SBM Offshore, Monaco

A Comparison of Different Numerical Methods to Simulate Forced Roll Oscillations of Floating Structures in Grid-Based Schemes OMAE2022-80510

Jannik Meyer, Henrik Neufeldt, Arndt Hildebrandt

Ludwig-Franzius-Institute, University of Hannover, Hannover, Germany

Reconstruction of Fish Farm Model Tests in CFD for Detailed Analysis of Internal Sloshing and Wave Loading in Extreme Sea States OMAE2022-80520

Peter Van Der Plas¹ Jorrit-Jan Serraris¹ Joop Helder¹ Finn-Christian Hanssen² Lars Bjar³ Kåre Olav Krogenes⁴

1. MARIN, Wageningen, Netherlands; 2. Semar, Lysaker, Norway; 3. Moss Maritime, Lysaker, Norway; 4. Viewpoint, Haugesund, Norway

GPU-Accelerated High-Order Spectral – OpenFOAM Coupled Model for Numerical Analysis of Ship Motion in Nonlinear Waves OMAE2022-81236

My Ha Dao, Xin Lu, Quang Tuyen Le

Institute of High Performance Computing, Singapore, Singapore

CFD and VIV

08-07-01 Internal Flows and FIV I

Wednesday June 8 | Room Y6 | 15:30–17:30

Session Organizer: Owen Oakley, Retired, USA

Session Co-Organizer: Narakorn Srinil, Newcastle University, United Kingdom

Two-Phase Flow Induced Vibrations: Methodology Validation – Part 1 OMAE2022-78833

Arnout Klinkenberg¹ Hajo Pereboom² Stefan Belfroid² Steinar Orre³

1. Aker Solutions, Oslo, Norway; 2. TNO, Delft, Netherlands; 3. Equinor, Stavanger, Norway

Two-Phase Flow Induced Vibrations: Methodology Validation – Part 2 OMAE2022-78758

Olivier Macchion¹ Paul Emmerson² Mike Lewis² Leszek Stachyra¹ Steinar Orre³

1. TechnipFMC, Lysaker, Norway; 2. Xodus Group, London, United Kingdom; 3. Equinor ASA, Stavanger, Norway

Two-Phase Flow Induced Vibrations with CO2 Multiphase Flow OMAE2022-78693

Stefan Belfroid¹ Steinar Orre² Rens Bazuin¹ Knud Lunde²

1. TNO, Delft, Netherlands; 2. Equinor, Forus, Norway

Analysis of the Influence of Opening Design Parameters on Cavity Flow Characteristics OMAE2022-79104

Luqun Wang, Jiawei Yu, Xianzhou Wang, Weihua Deng, Dakui Feng

Huazhong University of Science and Technology, Wuhan, China (Mainland)

Hybrid Multiphase CFD Model for Bubbly, Slug, Churn and Annular Flow Regimes in Vertical Pipes OMAE2022-79277

Madhusuden Agrawal¹ Samir Khanna¹ Ardjan Kopluku¹ Timothy Lockett²

1. BP, Houston, TX, USA; 2. BP (former employee), Torquay, United Kingdom

Ocean Renewable Energy

09-01-10 FWT Hydrodynamics

Wednesday June 8 | Room Y7 | 15:30–17:30

Session Organizer: Enzo Marino, Department of Civil and Environmental Engineering, University of Florence, Italy

Session Co-Organizer: Madjid Karimirad, Queen's University Belfast, United Kingdom

The Application of Semi-Analytical Diffraction Formulas to Predict Second-order Dynamic Response of a TLP Floating Wind Turbine in Monochromatic Waves OMAE2022-78673

Elie Ronge¹ Christophe Peyrard² Vengatesan Venugopal³ Qing Xiao⁴ Lars Johanning⁵

1. IDCORE - The University of Edinburgh, Chatou, France; 2. EDF Lab, Chatou, France; 3. The University of Edinburgh, Edinburgh, United Kingdom; 4. University of Strathclyde, Glasgow, United Kingdom; 5. University of Exeter, Penryn, United Kingdom

Simulation of VIM of an Offshore Floating Wind Turbine OMAE2022-79006

Elizabeth Passano¹ Guttorm Grytøyr² Herbjørn Haslum² Halvor Lie¹ Decao Yin¹

1. SINTEF Ocean, Trondheim, Norway; 2. Equinor, Stavanger, Norway

Hydrodynamic Performance of an Innovative Semisubmersible Platform with Twin Wind Turbines OMAE2022-79248

Mujahid Elobeid¹ Longbin Tao² David Ingram³ Ajit Pillai⁴ Pedro Mayorga⁵ Jan Erik Hanssen⁵

1. The University of Edinburgh, Glasgow, United Kingdom; 2. University of Strathclyde, Glasgow, United Kingdom; 3. The University of Edinburgh, Edinburgh, United Kingdom; 4. University of Exeter, Cornwall, United Kingdom; 5. EnerOcean S.L., Málaga, Spain

Validation Study of a CFD Numerical Solver for the Oscillatory Flow Features around Heave Plates OMAE2022-81116

Seung-Yoon HAN, Benjamin Bouscasse, Jean-Christophe Gilloteaux, David Le Touze

Ecole Centrale Nantes, Nantes, France

Identification of Wave Drift Forces on a Floating Wind Turbine Sub-structure with Heave Plates and Comparison with Predictions OMAE2022-81467

Nuno Fonseca¹ Synne Nybø² Jose Miguel Rodrigues² Aitor Gallego³ Carlos Garrido-Mendoza³

1. SINTEF Ocean, Ranheim, Norway; 2. SINTEF Ocean, Trondheim, Norway; 3. SAITEC, Leioa-Bizkaia, Spain

Ocean Renewable Energy

09-05-01 Energy Storage and Hydrogen

Wednesday June 8 | Room Y8 | 15:30–17:30

Session Organizer: Tonio Sant, Department of Mechanical Engineering, University of Malta, Malta

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Investigating the Increase in Energy Storage Density of Subsea Hydro-Pneumatic Accumulators Using a Compressible Fluid Undergoing Phase Change OMAE2022-78138

Tonio Sant¹ Charise Cutajar² Luke Jurgan Briffa² Daniel Buhagiar³

1. Dept of Mechanical Engineering, University of Malta, Msida, Malta; 2. University of Malta, Msida, Malta; 3. FLASC B.V., Delft, Netherlands

Fuel Cells for Reducing Emissions from the Petroleum Industry – Experience from Work in the Lowemission Research Centre OMAE2022-78379

Belma Talic¹ Øyvind Lindgård² Katie Mccay² Einar Vøllestad¹ Yash Raka²

Patrick Fortin² Luis Colmenares-Rausseo² Anders Ødegård²

1. SINTEF AS, Oslo, Norway; 2. SINTEF AS, Trondheim, Norway

Hydro-Pneumatic Energy Storage Using Subsea Bundles OMAE2022-79073

Daniel Buhagiar¹ Ernst Kloster² Tonio Sant¹ Robert N. Farrugia¹

1. FLASC B.V., Delft, Netherlands; 2. Subsea 7, Stavanger, Norway

Subsea Buoyancy and Gravity Energy Storage System for Deep-water Applications: a Preliminary Assessment OMAE2022-80422

Andre Novgorodcev¹ Frank Mols² Antonio Jarquin Laguna¹

1. Delft University of Technology, Delft, Netherlands; 2. Delft University of Technology, Amsterdam, Netherlands

Performance of Slosh-induced Energy Harvesting OMAE2022-87116

Daegyoun Kim, Ki Jong Kim

KAIST, Daejeon, Korea

Petroleum Technology

11-05-03 Well Cementing Theory and Practice III

Wednesday June 8 | Room Y10 | 15:30–17:30

Session Organizer: Ian Frigaard, University of British Columbia, Canada

Session Co-Organizer: Seyed Mohammad Taghavi, Laval University, Canada

Influence on Sealing Integrity by Pressurization during Cement Sheath Setting OMAE2022-80506

Xuning Wu¹ Zaoyuan Li² Jian Liu² Zhengmeng Hou³ Donghua Su² Jin Li²

1. Technische Universitaet Clausthal, Goslar, Germany; 2. Southwest Petroleum University, Chengdu, China (Mainland); 3. Research Center of Energy Storage Technologies, Goslar, Germany

Effects of Rheological Properties on Primary Cementing of Irregular Horizontal Wells OMAE2022-80561

Parisa Sarmadi, Ian Frigaard

University of British Columbia, Vancouver, BC, Canada

Development of New Inhibited Spacer for Cementing Operation OMAE2022-80939

Sara Alkhalaf, Abdullah Alyami, Vikrant Wagle, Ali Safran

Saudi ARAMCO, Dhahran, Saudi Arabia

Development of a Geopolymer Cement for Primary Well Cementing: Method, Preparation and Particle Size Effect on Reaction Reactivity OMAE2022-81049

Khawlah Alanqari, Abdullah Al-Yami, Vikrant Wagle

Saudi ARAMCO, Dhahran, Saudi Arabia

Petroleum Technology

11-11-01 Advances in Carbon Capture Utilization and Storage

Wednesday June 8 | Room Y11 | 15:30–17:30

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Daoyong (Tony) Yang, Petroleum Systems Engineering, Canada; Huazhou Li, University of Alberta, Canada

Development of a Permeability Reduction Model Using Deep Learning for CO₂ Hydrate Storage OMAE2022-78523

Alan Junji Yamaguchi¹ Toru Sato¹ Takaomi Tobase² Xinran Wei³ Lin Huang³ Jia Zhang³ Jiang Bian³ Tie-Yan Liu³

1. The University of Tokyo, Kashiwa, Japan; 2. Electric Power Development Co. Ltd., Chigasaki, Japan; 3. Microsoft Research Asia, Beijing, China (Mainland)

Phase Behavior Modeling for Carbon Dioxide/Brine Mixtures Using PR EOS and Huron-Vidal Mixing Rule OMAE2022-80010

Ziting Sun, Huazhou Li

University of Alberta, Edmonton, AB, Canada

Correlation/Prediction of CO₂ Solubility in Single-salt and Multi-salt Brines Using PR EOS Incorporated with Modified Alpha Functions and BIP Correlations OMAE2022-80869

Zehua Chen¹ Daoyong Yang²

1. China University of Petroleum (East China), Qingdao, China (Mainland); 2. University of Regina, Regina, SK, Canada

Integrated Optimization of Hybrid Steam-solvent Processes in a Post-CHOPS Reservoir with Consideration of Wormhole Networks OMAE2022-81225

Daoyong (Tony) Yang¹ Min Zhao²

1. Petroleum Systems Engineering, Regina, SK, Canada; 2. University of Regina, Regina, SK, Canada

Thursday Concurrent Sessions

THURSDAY, JUNE 9

8:30 – 10:00

Offshore Technology

01-08-01 Digitalization, AI, Neural Networks, ML I

Thursday June 9 | Room Y1 | 08:30–10:00

Session Organizer: Rajiv Aggarwal, Consultant, USA

Session Co-Organizer: Denby Morrison, Shell, USA

Generating a Digital Twin of the Glen Lyon FPSO OMAE2022-80547

Suvabrata Das¹ Soma Maraju² Robert Barker³ Richard Bamford⁴ Jonathan Bailey⁴

1. BMT Commercial USA Inc., Katy, TX, USA; 2. BMT Commercial USA Inc., Houston, TX, USA;

3. BMT Commercial USA Inc., Fareham, United Kingdom; 4. BP, Dyce, United Kingdom

A Proposal for Achieving a Comprehensive Digital Twin for Floating Units OMAE2022-81198

Jose Esteve

Bureau Veritas, Paris, France

Digital Thread Applications for Offshore Floating Energy OMAE2022-82026

Mat Podskarbi

Akselos, Houston, TX, USA

Structures, Safety and Reliability

02-09-01 Extreme Loading and Responses I

Thursday June 9 | Room Hall F | 08:30–10:00

Session Organizer: Carlos Guedes Soares, IST, University of Lisbon, Portugal

Session Co-Organizer: Spyros Hirdaris, Aalto University, Finland

Development of Practical Simplified Formula of Wave Pressure in Equivalent Design Wave OMAE2022-79056

Kyohei Shinomoto¹ Kei Sugimoto² Sadaoki Matsui³

1. ClassNK, Tokyo, Japan; 2. ClassNK, Chiyoda-ku, Japan; 3. National Maritime Research Institute, Mitaka-shi, Japan

Wave Impact Pressures on U-OWC Breakwater OMAE2022-79148

Alessandra Romolo, Bruna Timpano, Valentina Laface, Vincenzo Fiamma, Felice Arena

Natural Ocean Engineering Laboratory (NOEL), University "Mediterranea" of Reggio Calabria, Reggio Calabria, Italy

Estimation of Design Slamming Loads from Laboratory Test of a Circular Cylinder OMAE2022-80945

Gunnar Lian¹ Sverre Kristian Haver² Chris Swan³

1. Equinor, Stavanger, Norway; 2. University of Stavanger, Stavanger, Norway; 3. Imperial College, London, United Kingdom

Wave Impact on Semi-submersible Units: a Review of Design Standards OMAE2022-81456

Renjeev Gopalakrishnakurup

UK Health & Safety Executive, Aberdeen, United Kingdom

Structures, Safety and Reliability

02-13-01 Risk Analysis and Management

Thursday June 9 | Room Hall E | 08:30–10:00

Session Organizer: Marcelo Ramos Martins, USP, Brazil

Session Co-Organizer: YeongAe Heo, Case Western Reserve University, USA

Restoration Models for Quantifying Resilience of FPS under Mooring Failure OMAE2022-81033

Jingyi Wu, Yang Yu, Jianxing Yu, Lixin Xu, Fanlei Wu, Xueying Chang

Tianjin University, Tianjin, China (Mainland)

Temperature Reduction on LNG Bunkering Ship Structure under Accidental Cryogenic Gas Release Using CFD Simulation OMAE2022-78729

Haris Nubli¹ Jung Min Sohn¹ Dongho Jung²

1. Pukyong National University, Busan, Korea; 2. Korea Research Institute of Ship and Ocean Engineering, Daejeon, Korea

Pipeline, Risers, and Subsea Systems

04-03-02 Rigid Pipelines II

Thursday June 9 | Room Y2 | 08:30–10:00

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

Structural Response of Subsea Pipe Elbows under Monotonic and Cyclic Loading OMAE2022-79151

George E. Varelis¹ Elie Dib¹ Spyros A. Karamanos²

1. Worley Europe Ltd, London, United Kingdom; 2. Department of Mechanical Engineering - University of Thessaly, Volos, Greece

The Impact of Extreme Turbidity Flow on Subsea Pipeline Design in a Deepwater Canyon Crossing OMAE2022-79292

Qiang Bai¹ Xinhai Qi² William Pearl¹ Joanne Shen¹ Mark Brunner¹

1. TechnipFMC, Houston, TX, USA; 2. Genesis, Houston, TX, USA

Integrity Assessment of Electrically Heat Traced Pipe-in-Pipe Plug Weld OMAE2022-79401

Daowu Zhou, Lingjun Cao

Subsea 7, Sutton, United Kingdom

Numerical Simulation of a Subsea Pipeline Subjected to near-Field Underwater Explosion Loads with the Coupled Eulerian-Lagrangian (CEL) Method OMAE2022-80657

Zhenhui Liu¹ Ragnar Igland²

1. Western Norway University of Applied Science, Haugesund, Norway; 2. Aker Solutions, Trondheim, Norway

Ocean Space Utilization

05-02-02 Aquaculture and Related Technology II

Thursday June 9 | Room Y3 | 08:30–10:00

Session Organizer: Muk Chen Ong, University of Stavanger, Norway

Numerical Study of an Alternative Way of Evaluating the Remaining Volume of a Fish Cage OMAE2022-79431

Hung-Jie Tang¹ Po-Hung Yeh² Ray-Yeng Yang³ Fan-Hua Nan⁴

1. National Cheng Kung University, Tainan, Taiwan (Greater China); 2. National Sun Yat-sen University, Kaohsiung, Taiwan (Greater China); 3. Department of Hydraulic and Ocean Engineering, National Cheng Kung University, Tainan, Taiwan (Greater China); 4. National Taiwan Ocean University, Keelung, Taiwan (Greater China)

A New (Or Forgotten?) Stochastic Linearization Technique for Stiffness Dominated Structures Subjected to Morison Type Loading OMAE2022-80446

Martin Slagstad, Jørgen Amdahl

Norwegian University of Science and Technology, Trondheim, Norway

System Simulation-based Feasibility and Performance Study of Alternative Fuel Concepts for Aquaculture Wellboats OMAE2022-81106

Lene ~~Æsøy~~, Henry Peter Piehl, Ann Rigmor Nerheim
Norwegian University of Science and Technology, Ålesund, Norway

Ocean Engineering

06-13-01 Towed and Undersea Cables and Pipes, Mooring, and Buoy Technology

Thursday June 9 | Room Y4 | 08:30–10:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Yi-Hsiang Yu, National Yang Ming Chiao Tung University, Department of Civil Engineering, Taiwan; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Muk Chen Ong, University of Stavanger, Norway

Model Experiments and Numerical Simulations on GPS Buoy with Steep Wave Mooring OMAE2022-79783

Motoki Araki¹ Mitsushi Watanabe² Sotarou Masanobu² Atsuo Omura³ Shouhei Kaita³ Atsushi Kunita³
1. National Maritime Research Institute, National Institute of Maritime, Port and Aviation Technology, Mitaka, Japan; 2. National Maritime Research Institute, Mitaka, Japan; 3. Coastal Development Institute of Technology, Minato-ku, Japan

Numerical and Empirical Based Fatigue Life Analyses of Submarine

Cables under Hydrodynamic Loads OMAE2022-80516

Clemens Schütt, Christoph Otto, Sascha Kosleck
University of Rostock, Rostock, Germany

Bending Study of Copper Conductors from Power Cables OMAE2022-86113

Xiaoli Jiang¹ Hans Hopman¹ Yong Bai² Pan Fang¹
1. Technology University of Delft, Delft, Netherlands; 2. Zhejiang University, Hangzhou, China (Mainland)

Ocean Engineering

06-14-01 Underwater Vehicles and Design Technology I

Thursday June 9 | Room Y12 | 08:30–10:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Yi-Hsiang Yu, National Yang Ming Chiao Tung University, Department of Civil Engineering, Taiwan; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Muk Chen Ong, University of Stavanger, Norway; Mohammad Mobasheramini, Federal University of Rio de Janeiro, Brazil

Hydrodynamic Investigation of a Remora-Inspired Autonomous Underwater

Vehicle Docking onto a Benchmark Submarine OMAE2022-78048

Yunxin Xu, Weichao Shi, Callum Stark
Strathclyde University, Glasgow, United Kingdom

Modelling of a Subsea Shuttle Tanker Hovering in Ocean Currents OMAE2022-78146

Yucong Ma, Yihan Xing, Marina Simplicio Da Silva, Dan Sui
University of Stavanger, Stavanger, Norway

UiS Subsea Freight-Glider: Controller Design and Analysis OMAE2022-79448

Usman Nawaz Ahmad, Yihan Xing
University of Stavanger, Stavanger, Norway

Propeller Full Parameterization Modeling Method OMAE2022-79642

Chunxiao Wu, Yu Lu, Shewen Liu, Zhuhao Gu, Wu Shao, Chuang Li
Dalian Maritime University, Dalian, China (Mainland)

Ocean Engineering

06-16-01 Wave Mechanics, Modeling and Wave Effects I

Thursday June 9 | Room Y9 | 08:30–10:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Alessandro Iafrazi, CNR, Italy; Hans Bihs, Norwegian University of Science & Technology, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; João Victor Padilha, Universidade Federal do Rio de Janeiro, Brazil; Guang Yin, University of Stavanger, Norway

Characterisation of Ship-Induced Long-Period Primary Waves Using Nonlinear Fourier Transform (KdV-NFT) OMAE2022-78098

Markus Brühl, Sander Wahls

Delft University of Technology, Delft Center for Systems and Control (DCSC), Delft, Netherlands

Water-depth Identification from Free-surface Data Using the KdV-based Nonlinear Fourier Transform OMAE2022-78882

Pascal de Koster, Markus Bruehl, Sander Wahls

Delft University of Technology, Delft, Netherlands

A Numerical Investigation on Wave Spectrum Identification and Transformation from Deep to Shallow Waters for the Coastal and Offshore Installations OMAE2022-79010

Weizhi Wang¹ Arun Kamath¹ Csaba Pakozdi² Hans Bihs¹

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF Ocean, Trondheim, Norway

Effects of Nonlinearity on the Formulation of the Crest Elevation and the Crest Width of Extreme Waves in Random Seas OMAE2022-79089

George Spiliotopoulos, Vanessa Katsardi

University of Thessaly, Volos, Greece

CFD and VIV

08-01-01 Waves and Loads

Thursday June 9 | Room Y6 | 08:30–10:00

Session Organizer: Stephen Cosgrove, Altair, USA

Session Co-Organizer: Owen Oakley, Retired, USA

Development and Verification of Modelling Practice for CFD Calculations to Obtain Hydrodynamic Damping of Offshore Vessels OMAE2022-78981

Arjen Koop¹ Sebastien Loubeyre² Kai Yu³ Haihua Xu⁴ Yingying Zheng⁴ Jerry Huang⁵

1. MARIN, Wageningen, Netherlands; 2. Bureau Veritas Solutions Marine & Offshore, Paris, France; 3. American Bureau of Shipping, Spring, TX, USA; 4. Technology Centre for Offshore and Marine, Singapore, Singapore, Singapore; 5. ExxonMobil, Spring, TX, USA

Investigation of Springing Responses to High Harmonics of Wave Loads by Direct Coupling between CFD and FEM OMAE2022-79446

Sumit Kumar Pal, Kazuhiro Iijima

Osaka University, Suita, Japan

Full Scale CFD Validation Using Ship Performance and Wave Pattern Measurements of a Mega Cruise Ship OMAE2022-79208

D.R. Schouten¹ Aurelien Drouet² Miloš Birvalski¹ Loic Morand²

1. MARIN, Wageningen, Netherlands; 2. Chantiers de l'Atlantique, Saint-Nazaire, France

Response Mitigation of Floating Platform by Porous-media Tuned Liquid Dampers OMAE2022-79607

Wen-Huai Tsao¹ Ying-Chuan Chen² Christopher E. Kees¹ Lance Manuel³

1. Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, LA, USA; 2. KBR, Houston, TX, USA; 3. Dept. of Civil, Architectural and Environmental Engineering, The University of Texas at Austin, Austin, TX, USA

Ocean Renewable Energy

09-01-08 FWT Moorings and Arrays I

Thursday June 9 | Room Y7 | 08:30–10:00

Session Organizer: Zhen Gao, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Analysis of a Hybrid Mooring System Concept for a Semi-submersible Wind Turbine in Intermediate Water Depth under Operational, Extreme, and Yaw Error Conditions OMAE2022-78666

Qun Cao¹ Erin Bachynski-Polić² Zhen Gao² Longfei Xiao¹ Zhengshun Cheng¹ Mingyue Liu¹

1. Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. Norwegian University of Science and Technology, Trondheim, Norway

Influence of Aerodynamic Loads on a Dual-spar Floating Offshore Wind Farm with a Shared Line in Parked Conditions OMAE2022-78929

Guodong Liang¹ Zhiyu Jiang¹ Karl Merz²

1. University of Agder, Grimstad, Norway; 2. SINTEF Energy Research, Trondheim, Norway

Development of a Modular, Adaptable and Scalable Gravity Anchor System for Various Floating Foundations OMAE2022-79916

Imanol Flores Ganuza¹ Johannes Wahrendorf² Eva Hlawatsch² Frank Adam² Jochen Großmann²

1. GICON®-Großmann Ingenieur Consult GmbH, Rostock, Germany; 2. GICON®-Großmann Ingenieur Consult GmbH, Dresden, Germany

Double Braid Mooring Damper for Floating Offshore Wind Application OMAE2022-79855

Faryal Khalid¹ Philipp R. Thies¹ Peter Halswell¹ David Newsam² Lars Johanning¹

1. University of Exeter, Penryn, United Kingdom; 2. Intelligent Moorings Limited, Denbighshire, United Kingdom

Ocean Renewable Energy

09-01-13 Novel and Hybrid Offshore Wind Concepts

Thursday June 9 | Room Y8 | 08:30–10:00

Session Organizer: Amir R. Nejad, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Assessment of the Power Obtained by a Multi Wind Turbine Floating Platform OMAE2022-79827

Raquel Martín-San-Román¹ José Azcona-Armendáriz¹ Mikel Iribas-Latour¹ Alvaro Cuerva-Tejero²

1. CENER, Sarriguren, Spain; 2. Universidad Politécnica de Madrid, Madrid, Spain

Dynamic Analysis of an Integrated Structure Consists of Jacket Offshore Wind Turbine and Aquaculture Cage OMAE2022-80493

Na Li, Haisheng Zhao, Wei Shi, Wenhua Wang, Xin Li

State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, Dalian, China (Mainland)

Power Performance and Response Analysis of a Semi-Submersible Wind Turbine with Combined Flap Type and Torus Wave Energy Converters OMAE2022-79483

Chern Fong Lee, Christodoulos Tryfonidis, Muk Chen Ong

University of Stavanger, Stavanger, Norway

Development of 12MW Cross-shaped Semi-submersible Floating Offshore Wind Turbine OMAE2022-79432

Ryo Matsuoka¹ Takashi Takeda¹ Hiroki Kusumoto¹ Shu Kuwada¹ Haruki Yoshimoto² Ken Kamizawa²

1. Nihon Shipyard, Yokohama, Japan; 2. Japan Marine United, Yokohama, Japan

Petroleum Technology

11-01-02 Well Drilling Technology II

Thursday June 9 | Room Y11 | 08:30–10:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Stephen Butt, Memorial University of Newfoundland, Canada; Mohammad Azizur Rahman, Texas A&M University at Qatar, Qatar

Empirical Evaluation of Influence of pVARD on Drilling Performance through Static, Dynamic, and Drilling Applications OMAE2022-79349

Abdelsalam Abugharara, Mohammad Shafaet Jamil, Stephen Butt
Memorial University of Newfoundland, St. John's, NL, Canada

Casing Collapse Resistance under Long-term, Non-uniform Salt Loading OMAE2022-80089

Peter Batruny¹ Scott Campbell¹ Azral Abdul Rahim¹ Yun Thiam Yap¹
Syed Yunus Syed Kamarul Ariffin² Pete Lumley³ Poodipeddi V Suryanarayana⁴
1. PETRONAS, Kuala Lumpur, Malaysia; 2. Petronas Petroleo Brasil Limitada, Rio de Janeiro, RJ, Brazil;
3. Blade Energy Partners, Newmachar, United Kingdom; 4. Blade Energy Partners, Frisco, TX, USA

A Special Thread Design Based on TC4 Titanium Alloy and its Successful Application in Offshore Extended-reach Drilling OMAE2022-80261

Zhenkun Li¹ Qishuai Yin² Yingying Guo³ Yang Long² Minshi Li² Xu Zhou³ Shujun Guo⁴ Fanhua Meng¹
1. CNOOC Ener Tech-Drilling & Production Co., Tianjin, China (Mainland); 2. China University of Petroleum Beijing, Beijing, China (Mainland); 3. Louisiana State University, Baton Rouge, LA, USA; 4. Zhongshi Titanium Industry Co., Dandong, China (Mainland)

A New Approach for Rock Strength Estimation through a Semi-point Load Strength Index and Correlation with Destructive and Nondestructive Tests OMAE2022-81556

Abdelsalam Abugharara, Salum Mafazy, Stephen Butt
Memorial University of Newfoundland, St. John's, NL, Canada

Petroleum Technology

11-04-01 Data Science and Machine Learning Applications in Drilling I

Thursday June 9 | Room Y10 | 08:30–10:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Evren Ozbayoglu, University of Tulsa, USA

Well Path Design Using Q-Learning Algorithms and Bezier Curves with Obstacles Avoidance OMAE2022-78427

Jie Cao, Samiul Ehsan, Tomasz Wiktorski, Dan Sui
University of Stavanger, Stavanger, Norway

Application of Recurrent Neural Network Long Short-term Memory Model on Early Kick Detection OMAE2022-78739

Junzhe Wang¹ Evren Ozbayoglu²
1. University of Tulsa, Tulsa, OK, USA; 2. University of Tulsa - Petroleum Engineering Dept., Tulsa, OK, USA

Evaluation and Interpretation on Data Driven ROP Models from Engineering Perspectives OMAE2022-78752

Miguel Fernandez Berrocal, Jie Cao, Dan Sui
University of Stavanger, Stavanger, Norway

Rate of Penetration Prediction Using Quantile Regression Deep Neural Networks OMAE2022-79046

Adrian Ambrus¹ Sergey Alyaev¹ Nazanin Jahani¹ Felix James Pacis² Tomasz Wiktorski²
1. NORCE, Bergen, Norway; 2. University of Stavanger, Stavanger, Norway

CONCURRENT SESSIONS

10:30 – 12:00

Structures, Safety and Reliability

02-09-02 Extreme Loading and Responses II

Thursday June 9 | Room Hall F | 10:30–12:00

Session Organizer: Spyros Hirdaris, Aalto University, Finland

Session Co-Organizer: Martin Storheim, Entail AS, Norway

Study on Protective Structure Penetrated by the Shaped-charge Jet for Ship Hull OMAE2022-79898

Jingjing Song, Jingxia Yue, Xiaobin Li, Runze Tan

Wuhan University of Technology, Wuhan, China (Mainland)

Prediction of Structural Damages and Armament Accelerations of a Surface

Naval Ship due to Underwater Explosions OMAE2022-80686

Hyunwoo Kim, Burak Can Cerik, Joonmo Choung

Inha University, Incheon, Korea

Prediction of Inclined Surface Spreading Extent for High Flashpoint Fuel

in Large Compartments under Ship Motion OMAE2022-81061

Daeyu Baeg¹ Hyun Ho Lee¹ Seung Yul Lee² Seon Jin Kim¹ Jeong Hwan Kim² Jung Kwan Seo³

1. Pusan National University, Busan, Korea; 2. The Korea Ship and Offshore Research Institute, Busan, Korea;

3. Pusan National University, The Korea Ship and Offshore Research Institute, Busan, Korea

Blast Loading Profile of Gaseous Hydrogen in Confined Space under Various Leak Conditions OMAE2022-81305

Seonjin Kim¹ Hyun Ho Lee¹ Soung Woo Park² Dae Yu Baeg¹ Jeong Hwan Kim² Jung Kwan Seo^{1, 2}

1. Pusan National University, Busan, Korea; 2. The Korea Ship And Offshore Research Institute, Busan, Korea

Structures, Safety and Reliability

02-14-01 Risk Based Maintenance

Thursday June 9 | Room Hall E | 10:30–12:00

Session Organizer: Marcelo Ramos Martins, USP, Brazil

Session Co-Organizer: Bernt Leira, Norwegian University of Science & Technology, Norway

Genetic Algorithms Applied to the Concept of Risk Based Inspection

(RBI): Optimization of Inspection Plans OMAE2022-78612

Carlos Henrique Bittencourt Morais¹ Elcio Abrahão¹ Marcos Coelho Maturana¹

Marcelo Ramos Martins¹ André Luis Debiaso Rossi² Adriana Miralles Schleder³

Fernanda M. Moura⁴ Leonardo Oliveira Barros⁵ Rene Thiago Capelari Orlowski⁶

1. Analysis, Evaluation and Risk Management Laboratory - LabRisco; University of São Paulo, São Paulo, SP, Brazil;

2. UNESP - Universidade Estadual Paulista "Júlio Mesquita Filho", Itapeva, SP, Brazil; 3. UNESP – Itapeva / LabRisco, USP,

São Paulo, SP, Brazil; 4. University of São Paulo, São Paulo, SP, Brazil; 5. Research and Development Center – CENPES -

Petrobras, Sao Paulo, SP, Brazil; 6. Research and Development Center – CENPES - Petrobras, Rio de Janeiro, RJ, Brazil

Sensitivity Analysis of a Corrosion Prediction Model Using Monte Carlo Simulation OMAE2022-79179

Stephane Santana De Miranda Santos¹ Gilberto Francisco Martha Souza² Leonardo Oliveira De Barros³

Rene Thiago Capelari Orlowski³ Marcelo Ramos Martins¹ Adriana Miralles Schleder⁴

1. Analysis, Evaluation and Risk Management Laboratory - LabRisco; University of São Paulo, São Paulo, SP, Brazil;

2. Mechanical Engineering Department - University of São Paulo Brazil, São Paulo, SP, Brazil; 3. Research and Development

Center – CENPES - Petrobras, Rio de Janeiro, RJ, Brazil; 4. UNESP – Itapeva / LabRisco, USP, São Paulo, SP, Brazil

Inspection and Maintenance Planning for Offshore Wind Support Structures:

Modelling Reliability and Inspection Costs at the System Level OMAE2022-78269

Felipe Giro, Jose Mishael, Pablo G. Morato, Philippe Rigo

ANAST, Liège, Belgium

Methodology for Defining Risk Indices Applicable to Subsea Equipment OMAE2022-79316

Marcos Maturana¹ Adriana Schleder¹ Paulo Frutuoso E Melo² Marcelo Martins¹ Leonardo Barros³

1. LABRISCO/USP, São Paulo, SP, Brazil; 2. COOPE/UFRJ, Rio de Janeiro, RJ, Brazil;

3. Subsea Group/PETROBRAS, Rio de Janeiro, RJ, Brazil

Pipeline, Risers, and Subsea Systems

04-04-01 Flow Assurance and Subsea Equipment

Thursday June 9 | Room Y2 | 10:30–12:00

Session Organizer: Theodoro Netto, Fundacao Coppetec, Brazil

Session Co-Organizers: Theodoro Netto, Fundacao Coppetec, Brazil

CFD Modelling of Flexible Concrete Mattress Hydrodynamic Forces OMAE2022-78728

Terry Griffiths¹ Randall Griggs² Mehdi Khiadani²

1. Aurora Offshore Engineering, Perth, WA, Australia; 2. Edith Cowan University, Perth, WA, Australia

Time Series Prediction of the Trend of Hydrate Risk Using

Principal Component Analysis and Deep Learning OMAE2022-79494

Nayoung Lee¹ Hyunho Kim² Yutaek Seo¹

1. Seoul National University, Seoul, Korea; 2. National University of Singapore, Singapore, Singapore

Technical and Environmental Evaluation of a Hydrate Cold Flow Technique to Produce an Oil Reservoir Using a Long Tie-Back and Comparison against Traditional Development Concepts OMAE2022-79513

Leila Eyni¹ Mostafa Fattahi² Heiner Schumann³ Fredrik Lund⁴ Milan Stanko¹ Lars Strømmegjerde⁴

1. Norwegian University of Science and Technology, Trondheim, Norway; 2. Politecnico di Torino, Torino, Italy; 3. Sintef Industry, Trondheim, Norway; 4. EMPIG, Trondheim, Norway

Ocean Space Utilization

05-04-01 Underwater Development and Technology

Thursday June 9 | Room Y3 | 10:30–12:00

Sea Trials Summarization on Fundamental Formation Control of Multiple Cruising AUVs – 2nd Report: 3 Cruising AUVs with 1 ASV Trial, and Hovering AUVs' AUV-AUV Positioning and Communication OMAE2022-78370

Toshifumi Fujiwara¹ Kangsoo Kim¹ Masahiko Sasano¹ Takumi Sato¹ Shogo Inaba¹

Akihiro Okamoto¹ Motonobu Imasato¹ Hiroyuki Osawa²

1. National Maritime Research Institute, Tokyo, Japan; 2. Japan Agency for Marine-Earth Science and Technology, Kanagawa, Japan

Navigational Simulation of Cruising AUVs OMAE2022-78745

Toshifumi Fujiwara, Jun Umeda, Takumi Sato, Kangsoo Kim, Masahiko Sasano

National Maritime Research Institute, Tokyo, Japan

Experimental Investigation of Roughness Effect on Flow Field around Cylinder in Steady Flow OMAE2022-79452

Masahiro Suzuki¹ Tomoki Ikoma¹ Chang-Kyu Rheem² Yasuhiro Aida¹

1. CST, Nihon University, Funabashi, Japan; 2. Institute of Industrial Science The University of Tokyo, Meguro, Japan

Ocean Engineering

06-11-01 Ocean Engineering Technology I

Thursday June 9 | Room Y4 | 10:30–12:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Sotaro Masanobu, National Maritime Research Institute, Japan; Arun Kamath, Norwegian University of Science & Technology, Norway; Celso K. Morooka, Unicamp/petro Eng Dept, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Daniel De Oliveira Costa, Universidade Federal do Rio de Janeiro, Brazil

A Comparison of Design Wave Methods for Flexible Fish Farms OMAE2022-79186

Leiv Aspelund¹ Christoffer Skjulstad¹ Markus Bjørkli Jansen² Tim Fristedt¹

1. Multiconsult Norway ASA, Tromsø, Norway; 2. Norwegian University of Science and Technology, Trondheim, Norway

Analysis of Fluid Induced Transverse Forces on Multi-strand Twisted Ropes OMAE2022-79854

Stephan Schacht, Sascha Kosleck
University of Rostock, Rostock, Germany

Dynamic Property of a Floating Multi-body System for Dual Barge Float-over Operation with a Mechanical TLS (Topside Lifting System) OMAE2022-78400

Shujie Zhao¹ Zhen Gao² Dejiang Li³ Xun Meng¹
1. Ocean University of China, Qingdao, China (Mainland); 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Yantai CIMC Ocean Engineering Co., Ltd, Yantai, China (Mainland)

Digital Twin of a Maneuvering Ship: Real-time Estimation of Drift and Resistance Coefficients Based on Ship Motion and Rudder and Propeller Commands OMAE2022-78714

Humberto Akira Uehara Sasaki, Pedro Cardozo De Mello, Eduardo Aoun Tannuri
Universidade de São Paulo / Numerical Offshore Tank (TPN-USP), São Paulo, SP, Brazil

Development of a Response Assessment Tool for a Floating Dock System OMAE2022-78997

Jianan Zhang¹ Lin Li¹ Muk Chen Ong¹ Omar El Beshbichi¹ Aleksander Kniat²
1. University of Stavanger, Stavanger, Norway; 2. Gdańsk University of Technology, Gdańsk, Poland

Ocean Engineering

06-14-02 Underwater Vehicles and Design Technology II

Thursday June 9 | Room Y12 | 10:30–12:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Muk Chen Ong, University of Stavanger, Norway; Mohammad Mobasheramini, Federal University of Rio de Janeiro, Brazil

Numerical Analysis on Model- and Full-scale Unsteady Propeller Force for Underwater Vehicle OMAE2022-79760

Kenshiro Takahashi, Jun Arai, Takayuki Mori
Naval Systems Research Center, Acquisition, Technology & Logistics Agency, Meguro-ku, Japan

Influence of Sail Design Parameters on Unsteady Propeller Thrust for Underwater Vehicles OMAE2022-79762

Kenshiro Takahashi, Jun Arai, Takayuki Mori
Naval Systems Research Center, Acquisition, Technology & Logistics Agency, Meguro-ku, Japan

Artificial Underwater Dataset: Generating Custom Images Using Deep Learning Models OMAE2022-79891

Ioannis Polymenis, Maryam Haroutunian, Rose Norman, David Trodden
Newcastle University, Newcastle upon Tyne, United Kingdom

Design of a Prototype Renewably-powered Offshore AUV Servicing Platform OMAE2022-80349

Maha Haji¹ Jimmy Tran² Luke Woodcock² Olivier De Weck²
1. Cornell University, Ithaca, NY, USA; 2. Massachusetts Institute of Technology, Cambridge, MA, USA

Optimization of a Flexible Flapping-Foil Thruster Based on a Coupled BEM-FEM Model OMAE2022-79677

Dimitra Anevlavi, Evangelos Filippas, Angeliki Karperaki, Kostas Belibassakis
National Technical University of Athens, Athens, Greece

CFD and VIV

08-01-02 Propulsion, VIM, and CFD Spectra

Thursday June 9 | Room Y6 | 10:30–12:00

Session Organizer: Stephen Cosgrove, Altair, USA

Session Co-Organizer: Owen Oakley, Retired, USA

Large-Eddy Simulation of Vortex Flow Field of the Cylinder with Variable Cross Section OMAE2022-79795

Tao He, Liwei Liu, Chaobang Yao, Dakui Feng, Xianzhou Wang
Huazhong University of Science and Technology, WuHan, China (Mainland)

Numerical Simulation of Bimodal Wave Spectrum Based on Viscous CFD Method OMAE2022-79828

Jingyao Chen¹ Liwei Liu¹ Xianzhou Wang¹ Jianxin Li¹ Xi Yao²

1. Huazhong University of Science and Technology, Wuhan, China (Mainland); 2. Wuhan Tongxing Naval and Marine Engineering Design Co. Ltd, Wuhan, China (Mainland)

Numerical Simulations of Static Rudder Tests Based on Two Propeller Modeling Methods OMAE2022-78547

Chen Chang-Zhe, Liu Jin-Zhou, Zou Lu, Zou Zao-Jian

School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland)

Research on the Influence of Waterjet Propulsion on the Attitude of Planing Ship OMAE2022-79788

Jun Yang, Liwei Liu, Dakui Feng, Tao He, Chaobang Yao

Huazhong University of Science and Technology, Wuhan, China (Mainland)

Ocean Renewable Energy

09-01-09 FWT Moorings and Arrays II

Thursday June 9 | Room Y7 | 10:30–12:00

Session Organizer: Guodong Liang, University of Agder, Norway

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Suspended Power Cable Configurations for Floating Offshore Wind Turbines in Deep Water Powering an FPSO OMAE2022-80071

Anja Schnepf^{1, 3} Carlos Lopez-Pavon² Aymeric Devulder² Øyvind Johnsen³ Muk Chen Ong¹

1. University of Stavanger, Stavanger, Norway; 2. Coremarine Solutions SL, Leioa, Spain; 3. CoreMarine AS, Oslo, Norway

Mooring System Design for Floating Offshore Wind Turbine Working in Intermediate Water OMAE2022-80593

Zhenju Chuang, Zhen He, Chunzheng Li, Aobo Zhang

Dalian Maritime University, Dalian, China (Mainland)

Preliminary Investigation of a Shared Mooring Arrangement for a Floating Offshore Wind Turbine Farm in Deep Water OMAE2022-81245

Yutao Wang¹ Hugh Wolgamot² Phil Watson² Christophe Gaudin² Wenhua Zhao² Ian Milne²

1. University of Western Australia, Scarborough, WA, Australia; 2. University of Western Australia, Crawley, WA, Australia

Ocean Renewable Energy

09-03-02 Current and Tidal Energy II

Thursday June 9 | Room Y8 | 10:30–12:00

Session Organizer: Marc Cahay, Technip Energies, France

Session Co-Organizer: Madjid Karimirad, Queen's University Belfast, United Kingdom

Fatigue Life Evaluation of a Tidal Turbine Blade: from Simulations Using BEMT/FEM and CFD/FEM Couplings to Full-scale Test OMAE2022-79114

Stephane Paboeuf¹ Meryem Guisser¹ Sebastien Loubeyre¹ Peter Davies² Mael Arhant² Nicolas Dumergue² Erwann Nicolas³

1. Bureau Veritas, Saint-Herblain, France; 2. IFREMER, Plouzane, France; 3. Sabella, Quimper, France

Flow-induced Vibration Marine Current Energy Harvesting Using a Centrally-pivoted Cylinder OMAE2022-80245

Brad Stappenbelt

University of Wollongong, Wollongong, NSW, Australia

Hydrodynamic Performance of a Vertical-axis Tidal Current Turbine in Surge Motion Using a 2-D Vortex Panel Model OMAE2022-80276

Federica Perassi, Antonio Jarquin Laguna, Carlos Simao Ferreira

Delft University of Technology, Delft, Netherlands

Petroleum Technology

11-03-01 Well Control and Managed Pressure Drilling I

Thursday June 9 | Room Y11 | 10:30–12:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Yuanhang Chen, Louisiana State University, USA; Kjell Kåre Fjelde, University of Stavanger, Norway

Pressure Build-up in Closed Wells during Kick Migration and Fluid Compressibility Effects OMAE2022-79700

Mesfin Belayneh Agonafir¹ Johnny Petersen² Kjell Kåre Fjelde¹

1. University of Stavanger, Stavanger, Norway; 2. Retired, Bergen, Norway

Data Assimilation-based Real-time Estimation of Downhole Gas Influx Rate and Void Fraction Distribution in a Drilling Riser OMAE2022-79176

Chen Wei, Yuanhang Chen

Louisiana State University, Baton Rouge, LA, USA

Dynamics of Gas Kick Migration in the Annulus While Drilling/Circulating OMAE2022-79570

Chinemerem Obi¹ Kaushik Manikonda¹ Luis Abril¹ Rashid Hasan¹ Mohammad Azizur Rahman²

1. Texas A&M University, College Station, TX, USA; 2. Texas A&M University at Qatar, College Station, TX, USA

Safety Evaluation Technique of Annular Pressure in Offshore

High-temperature High-pressure Gas Wells OMAE2022-80748

YanJun Li¹ Shujie Liu¹ Deli Gao¹ Zhi Zhang² Yang Long¹

1. China University of Petroleum Beijing, Beijing, China (Mainland); 2. Southwest Petroleum University, Chengdu, China (Mainland)

Petroleum Technology

11-04-02 Data Science and Machine Learning Applications in Drilling II

Thursday June 9 | Room Y10 | 10:30–12:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Evren Ozbayoglu, University of Tulsa, USA

Unsupervised Machine Learning: a Well Planning Tool for the Future OMAE2022-78423

Peter Batruny¹ Tim Robinson²

1. PETRONAS, Kuala Lumpur, Malaysia; 2. Exeбенus, Stavanger, Norway

A Deep Learning Model for Rate of Penetration Prediction and Drilling Performance Optimization Using Genetic Algorithm OMAE2022-79623

Oney Erge¹ Evren Ozbayoglu² Murat Ozbayoglu³

1. N/A, Houston, TX, USA; 2. University of Tulsa, Tulsa, OK, USA; 3. TOBB University of Economics and Technology, Ankara, Turkey

Global Optimization Workflow for Offshore Drilling Rate of Penetration with Dynamic Drilling Log Data OMAE2022-79747

Jie Cao¹ Hui Ren² Dan Sui¹

1. University of Stavanger, Stavanger, Norway; 2. Xi'an Shiyou University, Xi'an, China (Mainland)

Optimizing Models for Predicting Torque on Bit Using Data from the Volve Field in Norway OMAE2022-79543

Patrick Höhn¹ Ahmed Bashara² Carlos Paz² Joachim Oppelt¹

1. Clausthal University of Technology, Celle, Germany; 2. Clausthal University of Technology, Clausthal-Zellerfeld, Germany

CONCURRENT SESSIONS

13:30 – 15:00

Structures, Safety and Reliability

02-04-01 Fatigue and Fracture Reliability I

Thursday June 9 | Room Hall E | 13:30–15:00

Session Organizer: Bernt Leira, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Gaute Storhaug, DNV, Norway

The Influence of Edge Treatment on Fatigue Behavior of Thermal Cut Edges OMAE2022-78431

Jan-Hendrik Grimm¹ Hubertus Von Selle¹ Moritz Braun¹ R. U. Franz von Bock und Polach¹

Sören Ehlers¹ Jonas Hensel² Juliana Diniz E Castro³ Ann-Christin Hesse³ Klaus Dilger³

1. Institute for Ship Structural Design and Analysis, Hamburg University of Technology, Hamburg, Germany; 2. University of Technology Chemnitz, Chemnitz, Germany; 3. Institute of Joining and Welding, University of Braunschweig, Braunschweig, Germany

Research on Fatigue Load Analysis and Fatigue Strength Assessment of Stern Shaft Bracket of Large Ship OMAE2022-80212

Chen Xianyin¹ Wang Gaoxiang² Zhu Qingchun¹

1. Marine Design and Research Institute of China, Shanghai, China (Mainland); 2. China Construction Steel Structure Corp, LTD, Shenzhen, China (Mainland)

Fatigue Assessment of Pump Tower in LNG Membrane Tanks OMAE2022-81275

Gaute Storhaug, Hui Sun, Yuelong Zang, Olav Rognebakke

DNV, Oslo, Norway

Mooring Fatigue Damage Prediction Based on Importance Sampling OMAE2022-81441

Siril Okkenhaug¹ Daniel Merino Hoyos² Eivind Tørset Magnussen¹ Michael Macke¹

1. DNV, Høvik, Norway; 2. COWI AS, Oslo, Norway

Structures, Safety and Reliability

02-09-03 Extreme Loading and Responses III

Thursday June 9 | Room Hall F | 13:30–15:00

Session Organizer: Spyros Hirdaris, Aalto University, Finland

Session Co-Organizer: Martin Storheim, Entail AS, Norway

Short-Term Analysis of Ship Capsizing Probability in Random Seas OMAE2022-80098

Lin He¹ Wei Chai¹ Bernt Leira² Chana Sinsabvarodom² Peiyuan Feng³

1. Wuhan University of Technology, Wuhan, China (Mainland); 2. Norwegian University of Science and Technology, Trondheim, Norway; 3. Marine Design and Research Institute of China, Shanghai, China (Mainland)

Efficient Long-term Extreme Response Analysis of Floating Bridges Using Multiple Timescale Spectral Analysis OMAE2022-80114

Aksel Fenerci¹ Margaux Geuzaine² Vincent Denoël² Ole Øiseth³

1. Norwegian University of Science and Technology, Ålesund, Norway; 2. University of Liege, Liege, Belgium; 3. Norwegian University of Science and Technology, Trondheim, Norway

The Influence of Added Mass in Ship-Ice-Wave Interactions: a Potential Flow Hydromechanics Model OMAE2022-80393

Zongyu Jiang, Fang Li, Tommi Mikkola, Pentti Kujala, Spyros Hirdaris

Aalto University, Espoo, Finland

Ocean Engineering

06-11-02 Ocean Engineering Technology II

Thursday June 9 | Room Y4 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Sotaro Masanobu, National Maritime Research Institute, Japan; Arun Kamath, Norwegian University of Science & Technology, Norway; Celso K. Morooka, Unicamp/petro Eng Dept, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Daniel De Oliveira Costa, Universidade Federal do Rio de Janeiro, Brazil

Experimental Studies of Additive Manufacturing for Subsea Enclosures OMAE2022-79026

Sascha Krohmann¹ Louis Leon Rautmann² Lars Glatzer² Sascha Kosleck²

1. Universität Rostock / MSF/ Lehrstuhl Meerestechnik, Rostock, Germany;

2. University of Rostock, Ocean Engineering, Rostock, Germany

Influence of Extreme Environmental and Deep-sea Temperature Conditions on Silicone Oil Used for Insulating Underwater Electrical Switching Systems OMAE2022-79049

Yvonne Haba¹ Saravanakumar Arumugam¹ Sascha Krohmann¹ Gerhard Körner² Ranko Richert³ Sascha Kosleck¹

1. University of Rostock, Ocean Engineering, Rostock, Germany; 2. FormLED GmbH, Karlsruhe, Germany;

3. Arizona State University, School of Molecular Sciences, Tempe, AZ, USA

Simulation Tool for Evaluation of Investment in Sustainable Technology OMAE2022-79261

Joannes Gullaksen

JG Maritime Engineering Ltd, Bucksburn, United Kingdom

A Bayesian Networks Approach for Safety Barriers Analysis:

a Case Study on Cryogenic Hydrogen Leakage OMAE2022-79725

Manuel Lenti, Lorenzo Balestra, Ingrid Schjøberg

Norwegian University of Science and Technology, Trondheim, Norway

Ocean Engineering

06-14-03 Underwater Vehicles and Design Technology III

Thursday June 9 | Room Y12 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Emerson Andrade, Federal University of Rio de Janeiro, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Muk Chen Ong, University of Stavanger, Norway; Mohammad Mobasheramini, Federal University of Rio de Janeiro, Brazil

Relevance of VPMM: A Survey, Conundrum and Conclusions OMAE2022-80537

Lakshmi Miller, Taylor Njaka, Stefano Brizzolara

Virginia State and Polytechnical University, Blacksburg, VA, USA

Experimental Study of the Drag and Wave-induced Surge Forces on an Underwater Vehicle Operating near the Surface OMAE2022-81058

Kristia Suriben¹ Kathryn Yeager² Joseph Klamo¹ Young Kwon¹

1. Naval Postgraduate School, Monterey, CA, USA; 2. Yale University, New Haven, CT, USA

Propulsive Performance of Morphing and Heaving Foil OMAE2022-81308

Pragalbh Dev Singh, Ishan Neogi, Vardhan Niraj Shah, Vaibhav Joshi

Birla Institute of Technology & Science Pilani, K K Birla Goa Campus, Sancoale, GA, India

Man-portable Hybrid Unmanned Underwater Vehicle with High-bandwidth Wireless Communication OMAE2022-81477

Alexandre Immas, Chong Hang Fong, Rebecca Sung, James Liao, Mohammad-Reza Alam

University of California, Berkeley, Berkeley, CA, USA

Ocean Engineering

06-16-02 Wave Mechanics, Modeling and Wave Effects II

Thursday June 9 | Room Y9 | 13:30–15:00

Session Organizer: Solomon Yim, Oregon State University, USA

Session Co-Organizers: Alessandro Iafrazi, CNR, Italy; Hans Bihs, Norwegian University of Science & Technology, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; João Victor Padilha, Universidade Federal do Rio de Janeiro, Brazil; Guang Yin, University of Stavanger, Norway

Development of an Online Ship Simulator to Represent the Dynamic Ship Responses in Regular Waves Using an Inertial Measurement Unit OMAE2022-79278

Luis Angel Zorrilla Gomez¹ Beatriz Karol Miranda Sandoval¹ Miguel Hinostroza²

Saida Milagros Ramos Quiñonez¹ Nain Maximo Ramos Alvarez¹

1. Universidad Nacional de Ingeniería, Lima, Peru; 2. Instituto Superior Tecnico, Universidade de Lisboa, Lisbon, Portugal

A Semianalytical Framework for the Prediction of Weakly Nonlinear Broadband Surface Waves with Large Directional Spreading OMAE2022-79462

Yan Li

Norwegian University of Science and Technology, Trondheim, Norway

Evaluation of Nonlinear Fourier-based Maximum Wave Height Predictors under the Nonlinear Schrödinger Equation OMAE2022-79838

Yu-Chen Lee, Sander Wahls, Markus Brühl

Delft Center for Systems and Control, Mechanical, Maritime and Materials Engineering, Delft University of Technology, Delft, Netherlands

The Dual Effect of Rain and Wind on Waves in a Small Lake OMAE2022-79865

Claire Bergin¹ Vikram Pakrashi² Frederic Dias²

1. University College Dublin, Naas, Ireland; 2. University College Dublin, Dublin, Ireland

CFD and VIV

08-02-01 Maneuvering

Thursday June 9 | Room Y6 | 13:30–15:00

Session Organizer: Owen Oakley, Retired, USA

Session Co-Organizers: Owen Oakley, Retired, USA

URANS Predictions of Drift Loads on a Semi Submersible in Steep Waves OMAE2022-79001

Frederick Jaouen, Arjen Koop, Tim Bunnik

MARIN, Wageningen, Netherlands

NuMerial Investigation on Scale Effect of 5415M Maneuverability OMAE2022-79450

Donglei Zhang, Qing Wang, Kai Dong, Xianzhou Wang

Huazhong University of Science and Technology, Wuhan, China (Mainland)

CFD Prediction and Validation for the Maneuverability of a Damaged Ship OMAE2022-79453

Kai Dong¹ Liwei Liu¹ Xianzhou Wang¹ Rui Luo²

1. School of Naval Architecture & Ocean Engineering, Huazhong University of Science and Technology, Wuhan, China (Mainland); 2. China Ship Design and Development Center, Wuhan, China (Mainland)

Study on Hydrodynamic Performance of a Conceptional Sea-Train OMAE2022-79779

Yan Qin¹ Chaobang Yao¹ Yi Zheng² Jianghao Huang¹

1. Huazhong University of Science and Technology, Wuhan, China (Mainland); 2. China Marine Development and Research Center, Wuhan, China (Mainland)

Ocean Renewable Energy

09-01-14 Fatigue and Structural Analysis

Thursday June 9 | Room Y7 | 13:30–15:00

Session Organizer: Amir R. Nejad, Norwegian University of Science & Technology, Norway

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Probabilistic Assessment of the Effect of Bolt Pre-Load Loss over Time in Offshore Wind Turbine Bolted Ring-Flanges Using a Gaussian Process Surrogate Model OMAE2022-79265

Jack Jorgensen¹ Melinda Hodkiewicz² Edward Cripps² Ghulam Mubashar Hassan²

1. University of Western Australia, Bassendean, WA, Australia; 2. University of Western Australia, Crawley, WA, Australia

A Review of End-of-Life Decision Making for Offshore Wind Turbines OMAE2022-78352

David Boyd¹ Madjid Karimirad¹ Vinayagamoothy Sivakumar¹ Soroosh Jalilvand² Cian Desmond²

1. Queen's University Belfast, Belfast, United Kingdom; 2. Gavin & Doherty Geosolutions, Dublin, Ireland

Fatigue Analysis of Wind Turbine Blade Coating considering Uncertainty Due to Voids Subjected to Impact Fatigue OMAE2022-79302

Nikesh Kuthe, Suhail Ahmad, Puneet Mahajan

Indian Institute of Technology Delhi, Delhi, DL, India

Sustainable Reuse of Decommissioned Jacket Platforms for Offshore Wind Energy Accounting for Accumulated Fatigue Damage OMAE2022-79598

Taemin Heo¹ Ding Peng Liu¹ Lance Manuel¹ Jose Correia² Paulo Mendes²

1. The University of Texas at Austin, Austin, TX, USA; 2. University of Porto, Porto, Portugal

Petroleum Technology

11-03-02 Well Control and Managed Pressure Drilling II

Thursday June 9 | Room Y11 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizers: Yuanhang Chen, Louisiana State University, USA; Kjell Kåre Fjelde, University of Stavanger, Norway

Experimental Investigation of Methane Absorption for Offshore Gas Influx Management OMAE2022-78721

Shahriar Mahmud, Yuanhang Chen

Louisiana State University, Baton Rouge, LA, USA

Feasibility of Riser Emergency Disconnections during Drilling MPD Operations with Surface Back Pressure OMAE2022-80858

Luan Richa, Germain Venero, Roberto Carvalho

Wood, Rio de Janeiro, RJ, Brazil

Mitigation of Barite Sagging for Proper Well Control: Lab Investigation and Field Application OMAE2022-81450

Abdullah Al-Yami, Vikrant Wagle

Saudi ARAMCO, Dhahran, Saudi Arabia

A Validated Computation Fluid Dynamics Model Investigating Cuttings Transport with Herschel Bulkley Drilling Fluids OMAE2022-79540

Mohamed Shafik Khaled¹ Muhammad Khan² Mohammad Azizur Rahman² Abu Rashid Hasan³

1. University of Texas at Austin, Bryan, TX, USA; 2. Texas A&M University at Qatar, Doha, Qatar; 3. Texas A&M University, College Station, TX, USA

Petroleum Technology

11-04-03 Data Science and Machine Learning Applications in Drilling III

Thursday June 9 | Room Y10 | 13:30–15:00

Session Organizer: Ergun Kuru, University of Alberta, Canada

Session Co-Organizer: Evren Ozbayoglu, University of Tulsa, USA

Picking the Optimum Directional Drilling Technology (RSS vs PDM): a Machine Learning-Based Model OMAE2022-80569

Muhammad Nour¹ Mohamed S. Farahat² Omar Mahmoud³

1. QPC, Qeft, Egypt; 2. Suez University, Suez, Egypt; 3. Future University in Egypt, Suez, Egypt

The Influence of Directional Well Azimuth on Bit Performance: a Statistical Approach OMAE2022-80570

Muhammad Nour¹ Mohamed S. Farahat² Omar Mahmoud³

1. QPC, Qeft, Egypt; 2. Suez University, Suez, Egypt; 3. Future University in Egypt, Suez, Egypt

New Approach to Predict the Filtrate Invasion of Nanoparticle-Based Drilling Mud Using Artificial Neural Network OMAE2022-81524

Moamen Gasser, Ahmed Naguib, Omar Mahmoud

Future University in Egypt, Cairo, Egypt

CONCURRENT SESSIONS

15:30 – 17:30

Structures, Safety and Reliability

02-04-02 Fatigue and Fracture Reliability II

Thursday June 9 | Room Hall E | 15:30–17:30

Session Organizer: Gaute Storhaug, DNV, Norway

Session Co-Organizer: Bernt Leira, Norwegian University of Science & Technology, Norway

Numerical Study on Weld Magnification Method for a Semi-Circular Surface Crack under an Arbitrary Stress Distribution OMAE2022-78529

Phyo Myat Kyaw¹ Naoki Osawa² Satoyuki Tanaka³ Ramy Gadallah⁴

1. Osaka University, Minoo, Japan; 2. Osaka University, Suita, Japan; 3. Hiroshima University, Higashihiroshima, Japan; 4. Osaka Prefecture University, Naka-ku, Japan

Irreversible Cohesive Zone Model Based Low-cycle Fatigue Analysis for a Subsea Pipeline OMAE2022-78707

Zhihao Song, Nian-Zhong Chen

Tianjin University, Tianjin, China (Mainland)

Theoretical and Experimental Analysis on Low-cycle Fatigue Crack Initiation for High Strength Steel Stiffened Plates OMAE2022-79688

Jiankang Lei¹ Jingxia Yue¹ Zhiting Xu² Xuan Fang¹ Hongrui Liu¹

1. Wuhan University of Technology, Wuhan, China (Mainland); 2. Marine Design and Research Institute of China, Shanghai, China (Mainland)

New Findings on the Impact of the Idealization of Corrosion on the Brittle Failure of Steel OMAE2022-82014

Michael Biglu, Rüdiger Ulrich Franz von Bock und Polach, Sören Ehlers

Hamburg University of Technology, Hamburg, Germany

Structures, Safety and Reliability

02-05-01 Reliability of Marine Structures

Thursday June 9 | Room Hall F | 15:30–17:30

Session Organizer: Sören Ehlers, Hamburg University of Technology, Germany

Session Co-Organizer: Martin Storheim, Entail AS, Norway

Degradation and Testing of Marine Heavy Duty Protective Coatings OMAE2022-87377

Ole Knudsen¹ Catalina Hagen¹ Anders W.B. Skilbred² Andreas Løken² Daniel Höche³ Bahman Daneshian³

1. SINTEF, Trondheim, Norway; 2. Jotun, Sandefjord, Norway; 3. Helmholtz-Zentrum Hereon, Geesthacht, Germany

Long Term Performance of Protective Coatings – a Case Study of a Glass Flake

Polyester Coating after 35 Years under Offshore Conditions OMAE2022-87376

Anders W. Skilbred, Andreas Løken, Lasse Isaksen

Jotun AS, Sandefjord, Norway

Coating Degradation in Marine Atmospheric: Analysis of Real-time Data

Acquired from On-site Sensors OMAE2022-87375

Bahman Daneshian¹ Daniel Höche² Ole Øystein Knudsen³ Anders Werner Bredvei Skilbred⁴

1. Hereon, Geesthacht, Germany; 2. Institute of Surface Science Helmholtz-Zentrum Hereon, Geesthacht, Germany; 3. SINTEF Materials and Chemistry, Department of Applied Mechanics and Corrosion, Trondheim, Norway; 4. Jotun Performance Coatings, Sandefjord, Norway

Ocean Space Utilization

05-03-01 Deepsea Mining and Ocean Resources

Thursday June 9 | Room Y3 | 15:30–17:30

Session Organizer: Marcio Yamamoto, National Maritime Research Institute, Japan

Simulation of a Vertical Riser System Composed of Two Pipes for Deep Sea Mining OMAE2022-78330

Marcio Yamamoto, Joji Yamamoto, Sotaro Masanobu

National Maritime Research Institute, Mitaka, Japan

Study on Large Particle Slurry Transport in Jumper for Subsea Mining OMAE2022-79597

Sotaro Masanobu¹ Marcio Yamamoto² Satoru Takano² Yuichi Mura³

1. National Maritime Research Institute, Tokyo, Japan; 2. National Maritime Research Institute, Mitaka, Japan; 3. Hokkaido University, Sapporo, Japan

Flow Assurance for Gas-Liquid-Solid Three-phase Flow at High Void Fraction of Gas Phase for Methane Hydrate Transport OMAE2022-79601

Satoru Takano, Sotaro Masanobu, Shigeo Kanada, Masao Ono

National Maritime Research Institute, Mitaka, Japan

Assessment of Power Requirements for Alternative Vertical Transportation System for Deepsea Mining OMAE2022-80149

Lucas Sevillano, Sigbjørn Sangesland

Norwegian University of Science and Technology, Trondheim, Norway

Preliminary Experiments for Construction of an Evaluation Model for Methane Hydrate Transportation OMAE2022-80247

Joji Yamamoto¹ Yasuharu Nakajima² Marcio Yamamoto¹ Satoru Takano¹ Masao Ono¹ Shigeo Kanada¹ Kazuhisa Otsubo¹

1. National Maritime Research Institute, Mitaka, Japan; 2. National Institute of Maritime, Mitaka, Japan

Ocean Engineering**06-11-03 Ocean Engineering Technology III****Thursday June 9 | Room Y4 | 15:30–17:30****Session Organizer:** Solomon Yim, Oregon State University, USA**Session Co-Organizers:** Sotaro Masanobu, National Maritime Research Institute, Japan; Arun Kamath, Norwegian University of Science & Technology, Norway; Celso K. Morooka, Unicamp/petro Eng Dept, Brazil; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; Daniel De Oliveira Costa, Universidade Federal do Rio de Janeiro, Brazil**Roll Stability Evaluation of the Floating Multi-body System at TML (Twin Marine Lifter) Operation** OMAE2022-79871**Xun Meng**, Xingqi Deng, Shujie Zhao, Dejiang Li, Qiang Fu*Ocean University of China, Qingdao, China (Mainland)***Underwater Vehicle Manipulator System (UVMS) with BlueROV2 and SeaArm-2 Manipulator** OMAE2022-79913**Martin Skaldebø¹** Ingrid Schjølberg¹ Bent Haugaløkken²*1. Norwegian University of Science and Technology, Trondheim, Norway; 2. SINTEF, Trondheim, Norway***Human-Machine Engineering Virtual Simulation for the Wheelhouse on Large Ships** OMAE2022-80032**Chuntong Li¹** Naikun Wei² Xiaomeng Luo³ Jianjun Lv³ Xuelian Yang⁴ Deyu Wang²*1. Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. Shanghai Jiao Tong University, Shanghai, China (Mainland); 3. Shipbuilding Technology Research Institute, Shanghai, China (Mainland); 4. Shanghai Waigaoqiao Shipbuilding Co., Ltd., Shanghai, China (Mainland)***Comparison of Cutter Suction Dredger Slurry Concentration Soft Measurement Method Based on the Mechanism and Data Dual-Driven Model** OMAE2022-80359**Wang Bin**, Shidong Fan, Ting Xiong, Hanhua Zhu*Wuhan University of Technology, Wuhan, China (Mainland)***Numerical Simulation of Hybrid Synthetic Mooring Lines Based on a Finite Difference Dynamic Model** OMAE2022-81238**Xinyi Li**, Liwei Yu, Shuqing Wang*Ocean University of China, Qingdao, China (Mainland)*

Ocean Engineering**06-16-03 Wave Mechanics, Modeling and Wave Effects III****Thursday June 9 | Room Y12 | 15:30–17:30****Session Organizer:** Solomon Yim, Oregon State University, USA**Session Co-Organizers:** Alessandro Iafrazi, CNR, Italy; Hans Bihs, Norwegian University of Science & Technology, Norway; Antonio Carlos Fernandes, Universidade Federal do Rio de Janeiro, Brazil; João Victor Padilha, Universidade Federal do Rio de Janeiro, Brazil; Guang Yin, University of Stavanger, Norway**Generation of Controlled Irregular Wave Crest Statistics in a Numerical Wavetank Using HOS-NWT Solver** OMAE2022-79880**Maxime Canard**, Guillaume Ducozet, Benjamin Bouscasse*LHEEA, Nantes, France***Interaction Effects of Weakly Nonlinear Surface Waves and a Vertically Sheared Current on Loads on a Vertical Cylinder** OMAE2022-80038**Zirui Xin¹** Xin Li¹ Yan Li²*1. State Key Laboratory of Ocean Engineering, School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Shanghai, China (Mainland); 2. Department of Energy and Process Engineering, Norwegian University of Science and Technology; Department of Mathematics, University of Bergen, Trondheim, Norway***The Impact of the Spectral Tail on the Kurtosis of Random Seas** OMAE2022-80594**Dylan Barratt**, Ton Van Den Bremer, Thomas Adcock*University of Oxford, Oxford, United Kingdom***On Rogue Waves Generated by Abrupt Depth Transitions** OMAE2022-80596**Zhenhao Li¹** Tianning Tang¹ Yan Li¹ Samuel Draycott² Ton Van Den Bremer¹ Thomas Adcock¹*1. University of Oxford, Oxford, United Kingdom; 2. University of Manchester, Manchester, United Kingdom*

Observations on Horizontal Velocities under Waves in Shallow Water at a Wave Energy Site OMAE2022-81143

Arne Vogler¹ Diego Miguez¹ Ben Pepper²

1. MEECE ORE Catapult, Pembroke Dock, United Kingdom; 2. University of Strathclyde, Glasgow, United Kingdom

CFD and VIV

08-07-02 Internal Flows and FIV II

Thursday June 9 | Room Y6 | 15:30–17:30

Session Organizer: Owen Oakley, Retired, USA

Session Co-Organizer: Madhusuden Agrawal, BP, USA

Prediction and Benchmarking of a Nearly Horizontal Flowline Slug Flow OMAE2022-87489

Jose Mesa, Haijing Gao, Yiannis Constantinides

Chevron, Houston, TX, USA

Lazy Wave Riser Slug Induced Vibration – Modelling Validation OMAE2022-80271

Matthieu Miguez¹ Kevin Le Prin¹ Cristian Jara¹ Alain Liné² Alexandre Cinello³ Thierry Rippol³

1. SEAL Engineering (TechnipFMC subsidiary), NIMES, France; 2. TBI Université de Toulouse, Toulouse, France; 3. Océanide, La Seyne sur Mer, France

Study on the Hydrodynamic Coefficients of a Submarine in the Density Stratified Flow OMAE2022-79791

Guohua Dong¹ Chaobang Yao² Dakui Feng³ Guangli Zhou⁴

1. Huazhong University of Science and Technology, Hubei, China (Mainland); 2. Hubei Key Laboratory of Naval Architecture and Ocean Engineering Hydrodynamics(HUST), Wuhan, China (Mainland); 3. Huazhong University of Science and Technology, Wuhan, China (Mainland); 4. China Marine Development and Research Center, Beijing, China (Mainland)

Numerically Analysing Liquid-cargo Sloshing Diminishment in Partitioned Rectangular Tanks OMAE2022-86100

Mitchell Borg¹ Claire Demarco Muscat-Fenech¹ Tahsin Tezdogan² Tonio Sant¹ Simon Mizzi¹ Yigit Kemal Demirel²

1. University of Malta, Msida, Malta; 2. University of Strathclyde, Glasgow, United Kingdom

Simulation of Wind Flow around the Terrain of a High-altitude Transmission Tower: a Case Study of Saurdal Accident OMAE2022-81503

Arvind Keprate¹ Nikhil Bagalkot¹ Mohammad Reza Shah Mohammadi² Agnes Marie Horn³

1. Oslo Met, Oslo, Norway; 2. DNV, Arnhem, Netherlands; 3. DNV, Snarøya, Norway

Ocean Renewable Energy

09-01-11 Design and Optimization

Thursday June 9 | Room Y7 | 15:30–17:30

Session Organizer: Wei Yu, Stuttgart Wind Energy, Institute of Aircraft Design, University of Stuttgart, Germany

Session Co-Organizer: Krish Thiagarajan, University of Massachusetts Amherst, USA

Conceptual Design of a Concrete Multi-Column Floating Platform

Supporting a 10 MW Offshore Wind Turbine OMAE2022-78816

Muhammad Sohail Hasan¹ Wichuda Munbua¹ Edgard Borges Malta² Goncalves Rodolfo³ Chikako Fujiyama¹ Koichi Maekawa¹

1. Yokohama National University, Yokohama, Japan; 2. Technomar Engenharia Oceanica, Pinheiros, SP, Brazil; 3. The University of Tokyo, Meguro City, Japan

Optimization of Semi-submersible Hull Design for Floating Offshore Wind Turbines OMAE2022-86751

I-Jen Hsu¹ Glib Ivanov¹ Kai-tung Ma¹ Zheng-Zhang Huang² Hua-Tung Wu² Yun-Tzu Huang³ Mike Chou³ Yen-Hao Lin⁴

1. National Taiwan University, Taipei, Taiwan (Greater China); 2. SOIC, New Taipei City, Taiwan (Greater China); 3. CSBC, Kaohsiung, Taiwan (Greater China); 4. ABS, Taipei, Taiwan (Greater China)

Design Methodology Evolution: Transition from O&G FPU to FOWT OMAE2022-81555

Shaosong Zhang¹ Daewoong Son² Antoine Peiffer²

1. Principle Power Inc., Houston, TX, USA; 2. Principle Power Inc., Emeryville, CA, USA

LQR Optimal Control of Two-rotor Wind Turbine Mounted on Spar-type Floating Platform OMAE2022-78877

Omar El Beshbichi, Yihan Xing, Muk Chen Ong

UiT The Arctic University of Norway, Stavanger, Norway

Petroleum Technology

11-05-04 Well Cementing Theory and Practice IV

Thursday June 9 | Room Y10 | 15:30–17:30

Session Organizer: Ian Frigaard, University of British Columbia, Canada

Session Co-Organizer: Seyed Mohammad Taghavi, Laval University, Canada

Expanded Vermiculite Blended Foamed Cement Composite for Geothermal Wells Cementing and Its High Temperature Adaptability OMAE2022-81113

Wei Zhou, Chengwen Wang, Haoxin Lu

China University of Petroleum (East China), Qingdao, China (Mainland)

Practical Application of Pressure and Temperature Dependent Viscosity Calculations in Well Cementing Simulations OMAE2022-81120

Nicolas Flamant¹ Sviatoslav Pelipenko²

1. Schlumberger, Clamart, France; 2. Oxford Numerics Ltd, London, United Kingdom

Establishing New Guidelines for Stability Testing of Cementing Mix Fluids OMAE2022-81453

Abdullah Al-Yami, Vikrant Wagle

Saudi ARAMCO, Dhahran, Saudi Arabia

Long-term Mechanical Properties of Barrier Materials for Cementing Operations – Analysis of Morphology and Micro-structure OMAE2022-78634

Kamali Mohammadreza, Mahmoud Khalifeh, Arild Saasen, Paulo Henrique Silva Santos Moreira

University of Stavanger, Stavanger, Norway

Technical Tours

TOUR THE MARITIME LABORATORIES AT TECHNICAL UNIVERSITY HAMBURG

Fee: No charge

Date: Friday, June 10, 2022

Schedule: Depart at 9:00 am from the CCH, tour concludes with lunch (at own expense, cash only) at 1 pm at the University cafeteria, return to hotel on own.

Capacity: 60 people maximum

An exceptional opportunity to visit the maritime laboratories at the Technical University Hamburg. The tour will start at 9:00 am at CCH and take you via public transportation (at own expense) to the University campus in Hamburg. Once on campus you will have the opportunity to visit the many facilities including:

- Europe's largest wind tunnel for ship model testing
- The Strength laboratory
- Large scale, fatigue and ice-structure-interaction testing capabilities
- The complex single cylinder engine test stand for fuels and additives

The group will be split into smaller groups to allow for greater interaction with the scientific staff. The tour will conclude with lunch (at own expense, cash only) at the University cafeteria around 1 pm. Participants will then make their own way back to their hotel.



TOUR OF THE HAMBURG SHIP MODEL BASIN (HSVA)

Fee: €80 plus VAT

Date: Friday, June 10, 2022

Schedule: Depart at 9:30 am from the CCH, depart from HSVA at 1 pm, arrive at CCH at approximately 1:30 pm.

Capacity: 56 people maximum

HSVA is providing a unique opportunity to OMAE 2022 participants to view its facilities, which are usually open only to its customers. For a century, the private and independent Hamburg Ship Model Basin (HSVA) has been at the forefront of hydrodynamic research. Today, HSVA is a service and consulting company for customers from the maritime industry worldwide. HSVA offers advanced technologies and modern test facilities. Our engineers and scientists develop a detailed understanding of the intricate questions related to ship and offshore hydrodynamics, propeller and ship design in calm water, waves and ice.

During the tour, you will view live demonstrations of the main facilities and learn about the capabilities of smaller tanks and tunnels. In small groups, you can experience different measurement techniques and view the special equipment used at HSVA. Refreshments will be provided.



Short Course

Dynamics and Vibrations in Offshore Structures

Sunday, June 5th, 2022: 9:00 am – 5:00 pm

Course Description

An understanding of the principles of dynamics and vibrations is important for assuring system integrity and operational functionality in different engineering areas. However, practical problems regarding dynamics are in many cases handled without success, despite large expenditures of investment. It is essential in approaching dynamic analysis and design that one develops an “intuition” to solve the relevant problems at hand; both academic knowhow and professional experience play equally important roles in developing such intuition. To meet the objectives above, this course aims to address a wide range of topics in the field of offshore structures, starting from fundamentals and moving on to relevant and practical engineering challenges and solutions. Special emphasis is placed on engineering applications that utilize state-of-the-art knowledge, the finite element method, relevant codes, probabilistic methods, and recommended practices. The course is primarily intended for industry professionals, researchers, and graduate students in offshore, civil, and marine engineering who desire an introduction to principles of dynamic analysis and design as well as those who are eager to learn advanced and efficient techniques used to mitigate vibrations for offshore as well as land-based structures.

Instructors: Junbo Jia & Bernt Leira

Dr. Junbo Jia has been an engineering expert at Aker Solutions, Norway since 2006. He holds a Ph.D. degree in Ocean Engineering from Chalmers University of Technology. He has been extensively involved in many engineering projects for offshore and energy industries. He currently serves as secretary general of International Seismic Safety Organization (ISSO), committee member of ISO TC67/SC7, member of Eurocode 3, and committee members of several other international

scientific organizations. He has been invited as speakers, course lecturers, and permanent members of PhD examination committees by various organizations and research institutes. Dr. Jia is the sole author of three comprehensive scientific monographs by Springer. Two of the books receive the “Best Offshore Engineering Books of All Time” and “Best Earthquake Engineering Books of All Time” award by BOOKAUTHORITY. He is also the editor of a book volume (with J.K. Paik) by CRC press. He has received several scientific awards such as the Vice Admiral E.L. Cochrane award by SNAME (2008) and the 2014 Best Paper Award by Journal of Ships and Offshore Structures (Taylor & Francis).

Bernt J. Leira is a Professor at the Department of Marine Technology, Norwegian University of Science and Technology. His Doctoral Thesis is on structural reliability formulations involving multiple stochastic processes. He has previously been working in SINTEF, Division of Structural Engineering for a period of 20 years related to design analysis of a variety of structures. Examples are fixed offshore platforms (e.g. jackets, jack-ups, gravity platforms), long-span bridges (e.g. suspension bridges, floating bridges, submerged tubular bridges), floating production systems and marine risers (rigid risers, non-bonded flexible risers, titanium risers). He has been project manager for a number of industry projects. He has been involved in teaching at University level for a period of 30 years, and has held an industry Professorship from 1994 to 1999, and a full Professorship since 1999. Main areas of teaching are reliability methods, probabilistic load modelling, dynamic response analysis and design methods for marine structures. He has published more than 300 papers in scientific journals, conferences and books. Relevant ISO and other standardization work comprises Dynamic Risers and Floating Production Systems.



Outreach for Engineers

14TH ANNUAL OUTREACH FOR ENGINEERS SPECIALTY FORUM

This is the fourteenth year of the Outreach for Engineers Specialty Forum. Highlights of the Forum will include presentations of the various technologies required (e.g. from ocean /or offshore engineering, civil engineering, petroleum engineering, aerospace engineering, mechanical/structural engineering project management), types of job opportunities, possible career paths, and a team building activity. In addition, the Outreach for Engineers

Specialty Forum delegates are provided with the opportunity to participate at the 41st International Conference on Ocean, Offshore Arctic Engineering as full conference delegates.

Through funding provided by the OOA Division of ASME and corporate sponsors, the organizers of the Forum will be offering scholarships to cover registration costs and a limited number of travel subsidies. The scholarships are open to students' and early professionals from around the world.

SCHEDULE: SUNDAY, JUNE 5

Time (including Q&A)	Topic	Presenter
9:00 – 9:30	Introduction	Jon Mikkelsen (University of British Columbia)
9:30 – 11:00	Digitalization by World Practitioners	Denby Morrison (Shell)
11:00 – 11:15	Refreshment break	
11:15 – 12:00	Hydrodynamic Modeling of Large Offshore Wind Mono-pile	Csaba Pákozdi (SINTEF Ocean)
12:00 – 13:00	Networking Lunch	
13:00 – 13:45	Floating Wind Lifecycle	Alexia Aubault (Ocergy)
13:45 – 14:30	Sustainable and Marketable Solutions for the Energy Industry	Walter Kuehnlein (terra.blue)
14:30 – 14:45	Refreshment break	
14:45 – 15:30	Digital Twins and Autonomous Vessels	Allan Magee (Technology Center for Offshore and Marine)
15:30 – 16:00	Closing remarks	Jon Mikkelsen and all

Thank you to this year's co-sponsors of the Outreach Forum



WE COVER WHAT'S NEXT

SUBSCRIBE TODAY TO STAY INFORMED



www.oceannews.com/subscribe

Committees & Organizers

Conference Organizing Committee:

OMAE 2022 Conference Chair

Sören Ehlers, *German Space Centre (DLR). Institute for Maritime Energy Systems. Full Professor for Ship Structural Design and Analysis, Hamburg University of Technology (TUHH)*

OMAE 2022 Conference Co-Chair

Dr. Walter L. Kuehnlein, *Principal Advisor, terra.blue*

OMAE 2022 Technical Program Chair

Yiannis Constantinides, *Facilities Engineering Advisor, Chevron*

Volunteers

The Conference Organizing Committee would like to express their gratitude to all the OMAE 2022 volunteers. We sincerely appreciate all the support they provide!

Technical Program Committee

SYMP 1: Offshore Technology

Symposium Coordinator: R. Cengiz Ertekin, *University of Hawaii*

SYMP 2: Structures, Safety and Reliability

Symposium Coordinator: Carlos Guedes Soares, *Instituto Superior Técnico*

SYMP 3: Materials Technology

Symposium Coordinator: Mamdouh Salama, *ConocoPhillips*

SYMP 4: Pipelines, Risers, and Subsea Systems

Symposium Coordinator: Theodoro Netto, *COPPE-Federal University of Rio de Janeiro*
Symposium Co-Coordinator: Duane Degeer, *INTECSEA*

SYMP 5: Ocean Space Utilization

Symposium Coordinator: Tomoki Ikoma, *Nihon University*

SYMP 6: Ocean Engineering

Symposium Coordinator: Solomon Yim, *Oregon State University*
Symposium Co-Coordinator: Antonio Carlos Fernandes, *UFRJ/COPPE*

SYMP 7: Polar and Arctic Sciences and Technology

Symposium Coordinator: Sören Ehlers, *German Space Centre (DLR). Institute for Maritime Energy Systems. Full Professor for Ship Structural Design and Analysis, Hamburg University of Technology (TUHH)*
Symposium Co-Coordinator: Walter Kuehnlein, *terra.blue*

SYMP 8: CFD, VIV & FSI

Symposium Coordinator: Yiannis Constantinides, *Chevron*
Symposium Co-Coordinator: Owen H. Oakley, Jr, *Retired*

SYMP 9: Ocean Renewable Energy

Symposium Coordinator: Krish Thiagarajan Sharman, *University of Massachusetts*

SYMP 10: Offshore Geotechnics

Symposium Coordinator: Dr. Denby Morrison, *FASME, Retired Shell Major Projects*

SYMP 11: Petroleum Technology

Symposium Coordinator: Ergun Kuru, *University of Alberta*

SYMP 12: Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

Symposium Coordinator: Marco Klein, *Hamburg University of Technology*

Topic Organizers

SYMP 1: Offshore Technology

01-01 Offshore Platforms I: Anil Sablok, *Technip Energies, USA*

01-02 Offshore Platforms II: Anil Sablok, *Technip Energies, USA*

02-01 Station Keeping I: Allan Magee, *National University of Singapore, Singapore*

03-01 Hydrodynamics: Longbin Tao, *University of Strathclyde, United Kingdom*

05-01 FLNG Technology I: Marc Cahay, *Technip Energies, France*

06-01 CFD Modeling Practice and Verification I: Jerry Huang, *ExxonMobil, USA*

07-01 Wave Loading and Motions in Extreme Seas: Nuno Fonseca, *Marintek, Norway*

08-01 Digitalization, AI, Neural Networks, ML I: Rajiv Aggarwal, *Consultant, USA*

08-02 Digitalization, AI, Neural Networks, ML II: Rajiv Aggarwal, *Consultant, USA*

09-01 Adapting/Mitigating Climate Change: Denby Morrison, *Shell, USA*

SYMP 2: Structures, Safety and Reliability

01-01 Abnormal Waves: Elzbieta Maria Bitner-Gregersen, *DNV/Ocean Wave Research, Norway*

01-02 Extreme Waves: Carlos Guedes Soares, *IST, University of Lisbon, Portugal*

01-03 Extreme Sea States: Alexander Babanin, *University of Melbourne, Australia*

02-01 Probabilistic and Spectral Wave Models: Carlos Guedes Soares, *IST, University of Lisbon, Portugal*

03-01 Probabilistic Response Models: Lance Manuel, *University of Texas at Austin, USA*

04-01 Fatigue and Fracture Reliability I: Bernt Leira, *Norwegian University of Science & Technology, Norway*

04-02 Fatigue and Fracture Reliability II: Gaute Storhaug, *DNV, Norway*

05-01 Reliability of Marine Structures: Sören Ehlers, *Hamburg University of Technology, Germany*

06-01 Reliability of Mooring and Riser Systems I: Luis Sagrilo, *Coppe/Federal University of Rio de Janeiro, Brazil*

06-02 Reliability of Mooring and Riser Systems II: Ying Min Low, *National University of Singapore, Singapore*

07-01 Reliability of Renewable Energy Systems: Zhen Gao, *Norwegian University of Science & Technology, Norway*

09-01 Extreme Loading and Responses I: Carlos Guedes Soares, *IST, University of Lisbon, Portugal*

09-02 Extreme Loading and Responses II: Spyros Hirdaris, *Aalto University, Finland*

09-03 Extreme Loading and Responses III: Spyros Hirdaris, *Aalto University, Finland*

10-01 Collision and Crashworthiness I: Sören Ehlers, *Hamburg University of Technology, Germany*

10-02 Collision and Crashworthiness II: Zhiqiang Hu, *Newcastle University, United Kingdom*

LISTING OF COMMITTEES & ORGANIZERS

- 11-01 Ultimate Strength I:** Carlos Guedes Soares, *IST, University of Lisbon, Portugal*
- 11-02 Ultimate Strength II:** Carlos Guedes Soares, *IST, University of Lisbon, Portugal*
- 12-01 Structural Analysis and Optimization I:** Jonas Ringsberg, *Chalmers University of Technology, Sweden*
- 12-02 Structural Analysis and Optimization II:** Jonas Ringsberg, *Chalmers University of Technology, Sweden*
- 13-01 Risk Analysis and Management:** Marcelo Ramos Martins, *USP, Brazil*
- 14-01 Risk Based Maintenance:** Marcelo Ramos Martins, *USP, Brazil*
- 16-01 Data-driven Models for Marine Structures I:** YeongAe Heo, *Case Western Reserve University, USA*
- 16-02 Data-driven Models for Marine Structures II:** YeongAe Heo, *Case Western Reserve University, USA*

SYMP 3: Materials Technology

- 01-01 Fracture Assessment and Control:** Mamdouh Salama, *MMS4AIM LLC, USA*
- 02-01 Fatigue Performance and Testing:** Mamdouh Salama, *MMS4AIM LLC, USA*
- 03-01 Integrity Assessment and Life Extension:** Mamdouh Salama, *MMS4AIM LLC, USA*
- 04-01 Environmental Effect on Materials Performance:** Mamdouh Salama, *MMS4AIM LLC, USA*
- 05-01 Performance and Reliability of Non-Metallics:** Mamdouh Salama, *MMS4AIM LLC, USA*
- 06-01 Advances in Materials and Manufacturing Technology:** Mamdouh Salama, *MMS4AIM LLC, USA*

SYMP 4: Pipeline, Risers, and Subsea Systems

- 01-01 Flexible Pipes and Umbilicals I:** Zhimin Tan, *Baker Hughes, USA*
- 01-02 Flexible Pipes and Umbilicals II:** Zhimin Tan, *Baker Hughes, USA*
- 01-03 Flexible Pipes and Umbilicals III:** Zhimin Tan, *Baker Hughes, USA*
- 01-04 Flexible Pipes and Umbilicals IV:** Zhimin Tan, *Baker Hughes, USA*
- 01-05 Flexible Pipes and Umbilicals V:** Zhimin Tan, *Baker Hughes, USA*
- 02-01 Rigid Risers I:** Theodoro Netto, *Fundacao Coppetec, Brazil*
- 02-02 Rigid Risers II:** Theodoro Netto, *Fundacao Coppetec, Brazil*
- 02-03 Rigid Risers III:** Theodoro Netto, *Fundacao Coppetec, Brazil*
- 03-01 Rigid Pipelines I:** Theodoro Netto, *Fundacao Coppetec, Brazil*
- 03-02 Rigid Pipelines II:** Theodoro Netto, *Fundacao Coppetec, Brazil*
- 04-01 Flow Assurance and Subsea Equipment:** Theodoro Netto, *Fundacao Coppetec, Brazil*

SYMP 5: Ocean Space Utilization

- 02-02 Aquaculture and Related Technology II:** Muk Chen Ong, *University of Stavanger, Norway*
- 03-01 Deepsea Mining and Ocean Resources:** Marcio Yamamoto, *National Maritime Research Institute, Japan*
- 05-01 Floating System for Renewable Energy I:** Shigeru Tabeta, *The University of Tokyo, Japan*

SYMP 6: Ocean Engineering

- 01-01 Computational Mechanics and Design Applications:** Solomon Yim, *Oregon State University, USA*
- 02-01 Coastal Engineering I:** Solomon Yim, *Oregon State University, USA*
- 02-02 Coastal Engineering II:** Solomon Yim, *Oregon State University, USA*

- 03-01 Fluid-structure, Multi-body and Wave-body Interaction I:** Solomon Yim, *Oregon State University, USA*
- 03-02 Fluid-structure, Multi-body and Wave-body Interaction II:** Solomon Yim, *Oregon State University, USA*
- 03-03 Fluid-structure, Multi-body and Wave-body Interaction III:** Solomon Yim, *Oregon State University, USA*
- 04-01 Marine Engineering and Technology I:** Solomon Yim, *Oregon State University, USA*
- 04-02 Marine Engineering and Technology II:** Solomon Yim, *Oregon State University, USA*
- 05-01 Marine Hydrodynamics I:** Solomon Yim, *Oregon State University, USA*
- 05-02 Marine Hydrodynamics II:** Solomon Yim, *Oregon State University, USA*
- 05-03 Marine Hydrodynamics III:** Solomon Yim, *Oregon State University, USA*
- 05-04 Marine Hydrodynamics IV:** Solomon Yim, *Oregon State University, USA*
- 07-01 Metocean, Measurement and Data Interpretation I:** Solomon Yim, *Oregon State University, USA*
- 07-02 Metocean, Measurement and Data Interpretation II:** Solomon Yim, *Oregon State University, USA*
- 08-01 Model Tests:** Solomon Yim, *Oregon State University, USA*
- 11-01 Ocean Engineering Technology I:** Solomon Yim, *Oregon State University, USA*
- 11-02 Ocean Engineering Technology II:** Solomon Yim, *Oregon State University, USA*
- 11-03 Ocean Engineering Technology III:** Solomon Yim, *Oregon State University, USA*
- 12-01 Ship Hydromechanics I:** Solomon Yim, *Oregon State University, USA*
- 12-02 Ship Hydromechanics II:** Solomon Yim, *Oregon State University, USA*
- 13-01 Towed and Undersea Cables and Pipes, Mooring, and Buoy Technology:** Solomon Yim, *Oregon State University, USA*
- 14-01 Underwater Vehicles and Design Technology I:** Solomon Yim, *Oregon State University, USA*
- 14-02 Underwater Vehicles and Design Technology II:** Solomon Yim, *Oregon State University, USA*
- 14-03 Underwater Vehicles and Design Technology III:** Solomon Yim, *Oregon State University, USA*
- 15-01 Unsteady Hydrodynamics, Vibrations, Acoustics and Propulsion:** Solomon Yim, *Oregon State University, USA*
- 16-01 Wave Mechanics, Modeling and Wave Effects I:** Solomon Yim, *Oregon State University, USA*
- 16-02 Wave Mechanics, Modeling and Wave Effects II:** Solomon Yim, *Oregon State University, USA*
- 16-03 Wave Mechanics, Modeling and Wave Effects III:** Solomon Yim, *Oregon State University, USA*

SYMP 7: Polar and Arctic Sciences and Technology

- 01-01 Structures in Ice:** Sören Ehlers, *Hamburg University of Technology, Germany*
- 02-01 Arctic Sea Transportation:** Marc Cahay, *Technip Energies, France*
- 03-01 Vessels in Ice – Loads:** Gesa Ziemer, *DLR, Germany*
- 04-01 Vessels in Ice – Simulations:** Angelo Mario Böhm, *TUHH, Germany*
- 05-01 Ice Model Tests:** Brendon Nickerson, *Stellenbosch University, South Africa*
- 06-01 Numerical Ice Modeling:** T. C. Hammer, *Tu Delft, Netherlands*
- 07-01 Marine Propulsion System Under Ice Impact:** Daniela Myland, *HSVA, Germany*
- 09-01 Scenario-based Risk Management for Ice-covered Waters: LRF- CEPOLAR Activities:** Pentti Kujala, *Aalto University, Finland*

LISTING OF COMMITTEES & ORGANIZERS

SYMP 8: CFD, VIV & FSI

- 01-01 **Waves and Loads:** Stephen Cosgrove, *Altair, USA*
- 01-02 **Propulsion, VIM, and CFD Spectra:** Stephen Cosgrove, *Altair, USA*
- 02-01 **Maneuvering:** Owen Oakley, *Retired, USA*
- 03-01 **Waves, Motions, Impact:** Tim Bunnik, *MARIN, Netherlands*
- 04-01 **FSI:** Guilherme Vaz, *blueOASIS, Portugal*
- 04-02 **Ship Design:** Guilherme Vaz, *blueOASIS, Portugal*
- 04-03 **Offshore Wind:** Guilherme Vaz, *blueOASIS, Portugal*
- 04-04 **Advanced Analytics:** Guilherme Vaz, *blueOASIS, Portugal*
- 05-01 **Free Surface Flows I:** Hans Bihs, *Norwegian University of Science & Technology, Norway*
- 05-02 **Free Surface Flows II:** Hans Bihs, *Norwegian University of Science & Technology, Norway*
- 06-01 **VIV in Time-Varying Flows:** Shixiao Fu, *SJTU, China (Mainland)*
- 06-02 **VIV of Flexible Risers and Cables:** Jie Wu, *SINTEF, Norway*
- 07-01 **Internal Flows and FIV I:** Owen Oakley, *Retired, USA*
- 07-02 **Internal Flows and FIV II:** Owen Oakley, *Retired, USA*

SYMP 9: Ocean Renewable Energy

- 01-01 **Installation, Marine Operations and Maintenance I:** P. R. Thies, *Exeter, United Kingdom*
- 01-02 **Installation, Marine Operations and Maintenance II:** P. R. Thies, *Exeter, United Kingdom*
- 01-03 **Installation, Marine Operations and Maintenance III:** Amir R. Nejad, *Norwegian University of Science & Technology, Norway*
- 01-04 **FWT Structural Dynamics I:** Zhengshun Cheng, *Shanghai Jiao Tong University, China (Mainland)*
- 01-05 **FWT Structural Dynamics II:** Zhengshun Cheng, *Shanghai Jiao Tong University, China (Mainland)*
- 01-06 **Wind Turbine Aerodynamics:** D. Todd Griffith, *University of Texas at Dallas, USA*
- 01-07 **Wind Turbine Aerodynamics II:** Tonio Sant, *Department of Mechanical Engineering, University of Malta, Malta*
- 01-08 **FWT Moorings and Arrays I:** Zhen Gao, *Norwegian University of Science & Technology, Norway*
- 01-09 **FWT Moorings and Arrays II:** Guodong Liang, *University of Agder, Norway*
- 01-10 **FWT Hydrodynamics:** Enzo Marino, *Department of Civil and Environmental Engineering, University of Florence, Italy*
- 01-11 **Design and Optimization:** Wei Yu, *Stuttgart Wind Energy, Institute of Aircraft Design, University of Stuttgart, Germany*
- 01-12 **Experimental Methods:** Seung-yoon HAN, *Ecole Centrale Nantes, France*
- 01-13 **Novel and Hybrid Offshore Wind Concepts:** Amir R. Nejad, *Norwegian University of Science & Technology, Norway*
- 01-14 **Fatigue and Structural Analysis:** Amir R. Nejad, *Norwegian University of Science & Technology, Norway*
- 02-01 **Wave Environmental Modeling:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 02-02 **Techno-economic Modeling of WEC:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 02-03 **WEC Performance Analysis:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 02-04 **WEC Numerical Modeling:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 02-05 **WEC Controls and PTO I:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 02-06 **WEC Controls and PTO II:** Masoud Hayatdavoodi, *University of Dundee, United Kingdom*
- 03-01 **Current and Tidal Energy I:** Marc Cahay, *Technip Energies, France*
- 03-02 **Current and Tidal Energy II:** Marc Cahay, *Technip Energies, France*

- 04-01 **Hybrids and Floating Solar Energy:** Madjid Karimirad, *Queen's University Belfast, United Kingdom*
- 05-01 **Energy Storage and Hydrogen:** Tonio Sant, *Department of Mechanical Engineering, University of Malta, Malta*

SYMP 10: Offshore Geotechnics

- 01-01 **Seabed Properties and Processes:** Christian Windt, *Technical University of Braunschweig, Ireland*
- 01-02 **Seabed Properties and Processes II:** Christian Windt, *Technical University of Braunschweig, Ireland*
- 02-01 **Piles:** Benjamin Cerfontaine, *University of Southampton, United Kingdom*
- 03-01 **Anchors and Pipelines I:** Katherine Kwa, *University of Southampton, United Kingdom*
- 03-02 **Anchors and Pipelines II:** Hyungchui Jang, *Technip, USA*
- 04-01 **Bucket, Gravity Foundations and Caissons:** Giuseppe Abbiati, *Aarhus University, Denmark*

SYMP 11: Petroleum Technology

- 01-01 **Well Drilling Technology I:** Ergun Kuru, *University of Alberta, Canada*
- 01-02 **Well Drilling Technology II:** Ergun Kuru, *University of Alberta, Canada*
- 02-01 **Well Drilling Fluids and Hydraulics I:** Ergun Kuru, *University of Alberta, Canada*
- 02-02 **Well Drilling Fluids and Hydraulics II:** Ergun Kuru, *University of Alberta, Canada*
- 02-03 **Well Drilling Fluids and Hydraulics III:** Ergun Kuru, *University of Alberta, Canada*
- 03-01 **Well Control and Managed Pressure Drilling I:** Ergun Kuru, *University of Alberta, Canada*
- 03-02 **Well Control and Managed Pressure Drilling II:** Ergun Kuru, *University of Alberta, Canada*
- 04-01 **Data Science and Machine Learning Applications in Drilling I:** Ergun Kuru, *University of Alberta, Canada*
- 04-02 **Data Science and Machine Learning Applications in Drilling II:** Ergun Kuru, *University of Alberta, Canada*
- 04-03 **Data Science and Machine Learning Applications in Drilling III:** Ergun Kuru, *University of Alberta, Canada*
- 05-01 **Well Cementing Theory and Practice I:** Ergun Kuru, *University of Alberta, Canada*
- 05-02 **Well Cementing Theory and Practice II:** Ergun Kuru, *University of Alberta, Canada*
- 05-03 **Well Cementing Theory and Practice III:** Ian Frigaard, *University of British Columbia, Canada*
- 05-04 **Well Cementing Theory and Practice IV:** Ian Frigaard, *University of British Columbia, Canada*
- 06-01 **Integrity of Well Barriers:** Ergun Kuru, *University of Alberta, Canada*
- 07-01 **Permanent Well Abandonment:** Ergun Kuru, *University of Alberta, Canada*
- 08-01 **Production Systems and Subsea Operations:** Ergun Kuru, *University of Alberta, Canada*
- 10-01 **Development of Unconventional Reservoirs I:** Ergun Kuru, *University of Alberta, Canada*
- 10-02 **Development of Unconventional Reservoirs II:** Hadi Belhaj, *Khalifa University, U.A.E.*
- 10-03 **Development of Unconventional Reservoirs III:** Ergun Kuru, *University of Alberta, Canada*
- 10-04 **Development of Unconventional Reservoirs IV:** Ergun Kuru, *University of Alberta, Canada*
- 11-01 **Advances in Carbon Capture Utilization and Storage:** Ergun Kuru, *University of Alberta, Canada*
- 12-01 **Sustainability and Green Transition in Petroleum Industry I:** Ergun Kuru, *University of Alberta, Canada*
- 12-02 **Sustainability and Green Transition in Petroleum Industry II:** Ergun Kuru, *University of Alberta, Canada*

LISTING OF COMMITTEES & ORGANIZERS

13-01 Digitalization of Subsurface, Well Systems, Subsea Systems and Operations: Ergun Kuru, *University of Alberta, Canada*

SYMP 12: Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

- 01-01 Hydrodynamics, Seakeeping and Global Performance:** Marco Klein, *Hamburg University of Technology, Germany*
- 01-02 Hydrodynamics, Seakeeping and Global Performance:** Marco Klein, *Hamburg University of Technology, Germany*
- 02-01 Extreme Waves and their Impact on Ships and Structures:** Marco Klein, *Hamburg University of Technology, Germany*
- 03-01 Deterministic Wave and Motion Prediction:** Marco Klein, *Hamburg University of Technology, Germany*

Event Organizer

Sea to Sky Meeting and Association Management Inc.

President: Ian Holliday

Project Director: Ian Holliday

Project Managers: Brittany Minskip, Eunji Na

Registration Manager: Helena Yang

Co-sponsoring Organizations

Association/Institution	Country
American Society of Mechanical Engineers International	USA
American Concrete Institute	USA
American Society of Civil Engineers, Coasts, Oceans, Ports, and Rivers Institute	USA
Associazione Italiana di Ingegneria Offshore e Marina	Italy
Università degli Studi Mediterranea di Reggio Calabria	Italy
Brazilian Society of Naval Architects	Brazil
Canadian Association of Petroleum Producers	Canada
Canadian Society for Mechanical Engineering	Canada
Chinese Society of Ocean Engineers	China
Conseil de Liaison des Assoc. de Recherche sur les Ouvrages en Mer	France
Energy Polymer Group	
Engineering Committee on Oceanic Research	
European Safety and Reliability Association	Portugal
German Association for Marine Technology	Germany
Institute of Materials	
Institution of Engineers of Ireland	Ireland
Institution of Mechanical Engineers	UK
Instituto Brasileiro de Petróleo	Brazil
Japan Society of Mechanical Engineers	Japan
Japan Society of Naval Architects of and Ocean Engineers	Japan
Korean Institute of Metals	Korea
Marine Technology Society	USA
National Association of Corrosion Engineers	USA
Norwegian Society of Chartered Engineers	Norway
Office of Science and Technology, Australia	Australia
Portuguese Engineering Association	Portugal
The Petroleum Society of CIM (Canadian Institute of Mining)	Canada
Royal Flemish Engineers Association	Belgium
Society of Danish Engineers	Denmark
Society of Naval Architects and Marine Engineers	USA
Society of Naval Architects and Marine Engineers	Taiwan, China
Society for Underwater Technology	UK
TWI (formerly The Welding Institute)	UK

Past and Future Conferences

PAST CONFERENCES



1982 New Orleans, USA
 1983 Houston, USA
 1984 New Orleans, USA
 1985 Dallas, USA
 1987 Houston, USA
 1988 Houston, USA



1986 Tokyo, Japan



1989 The Hague, Netherlands



Jin S. Chung
 Chair 1982–1989



Hisaaki Maeda
 Co-chair
 1986

Virgil Lunardini
 Co-chair
 1984 & 1985



1990 Houston, USA



1991 Stavanger, Norway



1992 Calgary, Canada



1993 Glasgow, U.K.



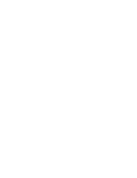
Mamdouh Salama
 Chair, 1990–1991



Bjorn Lian
 Co-chair



M. Idris Mansor
 Chair



R. Brawn
 Co-chair



Geoff Booth
 Chair



1994 Houston, USA



1995 Copenhagen, Denmark



1996 Florence, Italy



1997 Yokohama, Japan



James N. Brekke
 Chair



Christian Aage
 Chair



Daniela Mercati
 Chair



Hisaaki Maeda
 Chair



Koichiro Yoshida
 Co-chair



1998 Lisbon, Portugal



1999 St. John's, Canada



2000 New Orleans, USA



2001 Rio de Janeiro, Brazil



Carlos Guedes Soares
 Chair



Stephen Jones
 Chair



Terry Jones (1934–2005)
 Chair



Segen Farid Estefen
 Chair



2002 Oslo, Norway



2003 Cancun, Mexico



2004 Vancouver, Canada



2005 Halkidiki, Greece



Arvid Naess
 Chair



Oscar Valle Molina
 Chair



Sander Calisal
 Chair



Jon Mikkelsen
 Co-chair



Spyros A. Mavrakos
 Chair



Michael M. Bernitsas
 Co-chair

PAST AND FUTURE CONFERENCES

 **2006
Hamburg,
Germany**



Walter L. Kuehnlein
Chair

 **2007
San Diego, USA**



John Halkyard
Chair



Richard Seymour
Co-chair



Barbara Fletcher
Co-chair

 **2008
Estoril,
Portugal**



Carlos Guedes Soares
Chair

 **2009
Honolulu, USA**



R. Cengiz Ertekin
Chair



H. Ronald Riggs
Co-chair

 **2010
Shanghai, China**



Gang Chen
Chair



Jianmin Yang
Co-chair

 **2011
Rotterdam,
Netherlands**



Bas Buchner
Chair

 **2012
Rio de Janeiro, Brazil**



Segen F. Estefen
Chair



Antonio C. Fernandes
Co-chair

 **2013
Nantes,
France**



Pierre Ferrant
Chair


 **2014
San Francisco, USA**



Ronald W. Yeung
Chair



Dominique Roddier
Co-chair

 **2015
St. John's, Canada**



Wei Qiu
Chair



Charles Smith
Co-chair

 **2016
Busan,
South Korea**



Jeom Kee Paik
Chair

 **2017
Trondheim, Norway**



Bernt J. Leira
Chair



Atle Minsaas
Co-chair

 **2018
Madrid, Spain**



Antonio Souto-Iglesias
Chair



Raúl Guanche
Chair




Francisco Huera-Huarte
Chair

 **2019
Glasgow,
U.K.**



Atilla Incecik
Chair

 **2020
Ft. Lauderdale, USA
(Virtual)**



Manhar Dhanak
Chair



Ronald W. Yeung
Co-Chair

**2021
(Virtual)**



Dr. Franz von Bock und Polach
Chair



Denby Morrison
Co-Chair

FUTURE CONFERENCES

 **2023
Melbourne, Australia**



Alexander Babanin
Chair



Hayden Marcollo
Co-Chair

 **2024
Singapore**



Allan Magee
Chair

Author Index

A

Aarsæther, Karl Gunnar	OMAE2022-79919 (06-04-02)
Aarsnes, Ulf Jakob	OMAE2022-78339 (11-01-01)
Aasland, Tale	OMAE2022-79469 (08-06-02)
Aasly, Kurt	OMAE2022-81273 (11-12-02)
Abam, Joshua	OMAE2022-79044 (04-02-03); OMAE2022-79084 (04-02-03)
Abbasnia, Arash	OMAE2022-78762 (09-04-01); OMAE2022-79728 (09-04-01); OMAE2022-79732 (09-04-01)
Abbiati, Giuseppe	OMAE2022-79853 (10-04-01)
Abdel-Maksoud, Moustafa	OMAE2022-78713 (06-12-01); OMAE2022-80507 (08-04-01)
Abdel-Salam, Tarek	OMAE2022-78191 (09-02-03)
Abdul Rahim, Azral	OMAE2022-80089 (11-01-02)
Abrahamsen Prsic, Mia	OMAE2022-79718 (01-03-01)
Abrahão, Elcio	OMAE2022-78612 (02-14-01)
Abril, Luis	OMAE2022-79570 (11-03-01)
Abugharara, Abdelsalam	OMAE2022-79227 (10-01-02); OMAE2022-79273 (11-01-01); OMAE2022-79349 (11-01-02); OMAE2022-81556 (11-01-02)
Abulimiti, Wailli	OMAE2022-79610 (11-02-03)
Adam, Frank	OMAE2022-79821 (10-01-01); OMAE2022-79916 (09-01-08)
Adcock, Thomas	OMAE2022-80594 (06-16-03); OMAE2022-80596 (06-16-03); OMAE2022-80636 (02-01-01)
Adiputra, Ristiyanto	OMAE2022-78135 (05-05-01); OMAE2022-78136 (05-05-01)
Æsøy, Lene	OMAE2022-81106 (05-02-02)
Agonafir, Mesfin Belayneh	OMAE2022-79700 (11-03-01)
Agrawal, Madhusuden	OMAE2022-79147 (01-06-01); OMAE2022-79277 (08-07-01)
Ahmad, Suhail	OMAE2022-79302 (09-01-14)
Ahmed, Salim	OMAE2022-79255 (07-06-01)
Ahsan, Faraz	OMAE2022-78715 (09-01-06)
Ai, Shangmao	OMAE2022-81470 (09-02-06)
Aida, Yasuhiro	OMAE2022-79153 (05-05-02); OMAE2022-79452 (05-04-01)
Akahoshi, Takuya	OMAE2022-78305 (03-01-01)
Akamatsu, Tatsuya	OMAE2022-80042 (12-03-01)
Akbari, Soheil	OMAE2022-78848 (11-05-01)
Akinturk, Ayhan	OMAE2022-78578 (06-03-01)
Akselsen, Andreas	OMAE2022-79152 (01-06-01); OMAE2022-81324 (06-08-01)
Aksnes, Vegard	OMAE2022-79167 (05-05-03)
Akter, Shamima	OMAE2022-79255 (07-06-01)
Al-Ragum, Alanoud	OMAE2022-80202 (06-08-01)
Al-Safran, Ali	OMAE2022-81446 (11-02-03)
Al-Yami, Abdullah	OMAE2022-81049 (11-05-03); OMAE2022-81446 (11-02-03); OMAE2022-81450 (11-03-02); OMAE2022-81453 (11-05-04)
Alam, Mohammad-Reza	OMAE2022-80867 (09-02-04); OMAE2022-81477 (06-14-03)
Alanqari, Khawlah	OMAE2022-81049 (11-05-03)
Albisu, Beatriz	OMAE2022-80919 (01-02-01)
Aldhuhori, Mohammed	OMAE2022-79249 (11-10-02)
Alencar Bisinotto, Gustavo	OMAE2022-78603 (06-07-01)
Alexander Morán Arellano, Jonathan	OMAE2022-79672 (02-10-01)
Alkhalaf, Sara	OMAE2022-80939 (11-05-03)
Alkuwaiti, Hamda	OMAE2022-79249 (11-10-02)
Alluri, Satya Kiran Raju	OMAE2022-80930 (09-01-03)
Alsos, Hagbart	OMAE2022-79167 (05-05-03)
Álvarez-Buylla Puente, Santiago	OMAE2022-78308 (03-06-01)
Alves, Erick Fernando	OMAE2022-80645 (11-12-02)
Alyae, Sergey	OMAE2022-79046 (11-04-01)
Alyami, Abdullah	OMAE2022-80939 (11-05-03)
Amaral, Tiago	OMAE2022-80578 (09-02-04)
Ambrus, Adrian	OMAE2022-78339 (11-01-01); OMAE2022-79046 (11-04-01)

AUTHOR INDEX

Amdahl, Jørgen	OMAE2022-78575 (02-11-01); OMAE2022-80446 (05-02-02)
Amini, Mohammad Reza	OMAE2022-81006 (09-03-01)
An, Hongwei	OMAE2022-80172 (04-01-05)
Andersen, Lars Vabbersgaard	OMAE2022-79853 (10-04-01)
Andersen, Marius	OMAE2022-79649 (01-02-01)
Andersen, Terje L.	OMAE2022-81289 (03-03-01)
Andersen, Torgrim	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Andersson, Helge I.	OMAE2022-79469 (08-06-02)
Andresen-Paulsen, Gyde	OMAE2022-78674 (06-03-01)
Anevlavi, Dimitra	OMAE2022-79677 (06-14-02)
Annetis, Manolis	OMAE2022-79031 (06-01-01)
Anwaier, Maieryemuguli	OMAE2022-78776 (11-10-03); OMAE2022-80060 (11-10-04)
Anyfantis, Konstantinos	OMAE2022-79308 (03-05-01)
Aoun Tannuri, Eduardo	OMAE2022-78608 (06-07-01); OMAE2022-78714 (06-11-01); OMAE2022-79603 (06-02-02)
Arafat, Andi Muhammad Alfian	OMAE2022-79120 (02-11-01)
Aragall, Roger	OMAE2022-78394 (11-02-01)
Arai, Jun	OMAE2022-79760 (06-14-02); OMAE2022-79762 (06-14-02)
Araki, Motoki	OMAE2022-79783 (06-13-01); OMAE2022-80248 (06-12-02)
Araki, Susumu	OMAE2022-80063 (05-06-01)
Arana, José Luis	OMAE2022-80919 (01-02-01)
Arena, Felice	OMAE2022-79148 (02-09-01); OMAE2022-81138 (09-02-05); OMAE2022-81323 (02-01-02)
Arenfeldt Vilsen, Stefan	OMAE2022-79928 (04-03-01)
Arhant, Mael	OMAE2022-79114 (09-03-02)
Arredondo, Alberto	OMAE2022-80919 (01-02-01)
Arroyo, Fabio	OMAE2022-79322 (03-04-01)
Arumugam, Saravanakumar	OMAE2022-79049 (06-11-02)
Ashton, Ian	OMAE2022-79897 (09-02-01)
Aspelund, Leiv	OMAE2022-79186 (06-11-01)
Assbrock, Gerrit	OMAE2022-78435 (06-03-01)
Ataei, Behfar	OMAE2022-79844 (09-01-02)
Auler Da Silva Ferreira, Marcos Donato	OMAE2022-79917 (04-02-01)
Ay, Ahmet	OMAE2022-78659 (11-01-01)
Azcona-Armendáriz, José	OMAE2022-79827 (09-01-13)
Azuma, Koji	OMAE2022-78305 (03-01-01)

B

Babanin, Alexander	OMAE2022-78512 (02-01-03); OMAE2022-78567 (02-02-01); OMAE2022-78938 (02-01-03); OMAE2022-79053 (02-02-01); OMAE2022-79652 (02-01-03); OMAE2022-80598 (06-03-04)
Bacelli, Giorgio	OMAE2022-78810 (06-03-02); OMAE2022-80731 (09-02-02)
Bachimanchi, Pranitha	OMAE2022-80590 (07-05-01)
Bachynski-Polić, Erin	OMAE2022-78666 (09-01-08); OMAE2022-79167 (05-05-03)
Baeg, Daeyu	OMAE2022-81061 (02-09-02); OMAE2022-81305 (02-09-02)
Bagalkot, Nikhil	OMAE2022-81503 (08-07-02)
Bai, Hao	OMAE2022-79908 (11-10-04)
Bai, Qiang	OMAE2022-79292 (04-03-02)
Bai, Wei	OMAE2022-79230 (09-01-07); OMAE2022-79942 (01-01-02)
Bai, Yong	OMAE2022-86113 (06-13-01)
Bailey, Jonathan	OMAE2022-80547 (01-08-01)
Bakken, Bård Owe	OMAE2022-79008 (04-01-03)
Bakti, Farid P.	OMAE2022-79802 (06-03-03)
Balachandran, Balakumar	OMAE2022-78557 (02-01-01)
Balch, Robert	OMAE2022-80974 (11-06-01); OMAE2022-81041 (11-06-01)
Balestra, Lorenzo	OMAE2022-79725 (06-11-02)
Baltazar, João	OMAE2022-80578 (09-02-04)
Bamford, Richard	OMAE2022-80547 (01-08-01)
Baquet, Aldric	OMAE2022-87901 (01-06-01)
Bar, Daniel	OMAE2022-78564 (02-01-01)

AUTHOR INDEX

Barbier, Jeremie	OMAE2022-81285 (04-01-04)
Barker, Robert	OMAE2022-80547 (01-08-01)
Barratt, Dylan	OMAE2022-80594 (06-16-03)
Barros, Leonardo Oliveira	OMAE2022-78612 (02-14-01); OMAE2022-79179 (02-14-01); OMAE2022-79316 (02-14-01)
Baruah, Gautam	OMAE2022-79728 (09-04-01); OMAE2022-79732 (09-04-01)
Bashara, Ahmed	OMAE2022-79543 (11-04-02)
Bastos Vieira, João Marcos	OMAE2022-78325 (04-01-02)
Batalden, Bjørn-Morten	OMAE2022-79583 (06-04-02)
Batruny, Peter	OMAE2022-78423 (11-04-02); OMAE2022-80089 (11-01-02)
Battistella, Tommaso	OMAE2022-81065 (09-01-12)
Battisti, Beatrice	OMAE2022-81447 (09-02-04)
Bay, Raymond	OMAE2022-80796 (08-05-02)
Bayazit, Nursen	OMAE2022-78583 (06-05-01)
Bazuin, Rens	OMAE2022-78693 (08-07-01)
Behnen, Jonas	OMAE2022-78878 (07-07-01)
Behrendt, Jasper	OMAE2022-78988 (12-03-01)
Behrens, Arno	OMAE2022-79652 (02-01-03)
Beiranvand, Zeinab Malekshahi	OMAE2022-79192 (03-06-01)
Bekker, Anriette	OMAE2022-78787 (07-07-01)
Belfroid, Stefan	OMAE2022-78693 (08-07-01); OMAE2022-78833 (08-07-01)
Belhaj, Hadi	OMAE2022-79249 (11-10-02)
Belibassakis, Kostas	OMAE2022-78811 (06-15-01); OMAE2022-79490 (06-04-01); OMAE2022-79677 (06-14-02); OMAE2022-79699 (06-15-01)
Belloni, Filippo	OMAE2022-80169 (10-04-01)
Benetazzo, Alvise	OMAE2022-78334 (12-02-01)
Benites Munoz, Daniela	OMAE2022-80110 (09-02-03)
Benson, Simon	OMAE2022-79566 (02-11-02)
Berenguer Todo Bom, Luís	OMAE2022-79329 (10-04-01)
Bergin, Claire	OMAE2022-79865 (06-16-02)
Bergmo, Per Eirik Strand	OMAE2022-78790 (11-12-01)
Bergström, Martin	OMAE2022-80767 (07-09-01)
Berthelsen, Petter Andreas	OMAE2022-79167 (05-05-03)
Bhaskaran, Saravanan	OMAE2022-80701 (09-01-03)
Bhattacharyya, Anirban	OMAE2022-79051 (07-02-01)
Bian, Jiang	OMAE2022-78523 (11-11-01)
Bidlot, Jean	OMAE2022-79652 (02-01-03)
Biglu, Michael	OMAE2022-82014 (02-04-02)
Bihs, Hans	OMAE2022-79010 (06-16-01); OMAE2022-79036 (06-05-01); OMAE2022-81080 (08-05-01)
Bin, Wang	OMAE2022-80359 (06-11-03)
Bing, Zhao	OMAE2022-81293 (04-01-03)
Birvalski, Miloš	OMAE2022-79208 (08-01-01)
Bisinotto, Gustavo Alencar	OMAE2022-78607 (06-07-01)
Bjar, Lars	OMAE2022-80520 (08-03-01)
Bjerre Nielsen, Martin	OMAE2022-79907 (02-12-02)
Bjørheim, Lars Geir	OMAE2022-79149 (01-02-01); OMAE2022-81289 (03-03-01)
Björkli Jansen, Markus	OMAE2022-79186 (06-11-01)
Blanco, David	OMAE2022-79834 (09-01-12)
Boerner, Thomas	OMAE2022-80867 (09-02-04)
Böhm, Angelo Mario	OMAE2022-78068 (07-01-01); OMAE2022-78186 (07-07-01)
Bolf, Davor	OMAE2022-79308 (03-05-01)
Bomfimsilva, Carlos	OMAE2022-85000 (04-02-03)
Bonfanti, Mauro	OMAE2022-81464 (09-02-02)
Boote, Dario	OMAE2022-81100 (12-01-02)
Bordalo, Sergio N.	OMAE2022-79985 (11-08-01)
Borg, Mitchell	OMAE2022-86100 (08-07-02)
Borges Malta, Edgard	OMAE2022-80344 (09-01-12)
Bouscasse, Benjamin	OMAE2022-79152 (01-06-01); OMAE2022-79880 (06-16-03); OMAE2022-81116 (09-01-10)
Boyd, David	OMAE2022-78352 (09-01-14)

AUTHOR INDEX

Bracco, Giovanni	OMAE2022-81530 (09-02-01)
Brandini, Carlo	OMAE2022-78661 (02-01-02)
Braun, Moritz	OMAE2022-78431 (02-04-01); OMAE2022-78764 (07-01-01)
Breidenstein, Sebastian	OMAE2022-81150 (10-02-01)
Brett, Kent	OMAE2022-81324 (06-08-01)
Breugem, Alexander	OMAE2022-80407 (06-07-02)
Breunung, Thomas	OMAE2022-78557 (02-01-01)
Briffa, Luke Jurgen	OMAE2022-78138 (09-05-01)
Brindley, Will	OMAE2022-79879 (09-01-07)
Brizzolara, Stefano	OMAE2022-80485 (06-05-04); OMAE2022-80537 (06-14-03)
Browne, Thomas	OMAE2022-79514 (07-09-01); OMAE2022-80767 (07-09-01)
Bruehl, Markus	OMAE2022-78882 (06-16-01)
Brühl, Markus	OMAE2022-78098 (06-16-01); OMAE2022-79838 (06-16-02)
Brun Coser, Thiago	OMAE2022-79419 (04-01-02)
Brunner, Mark	OMAE2022-79292 (04-03-02)
Buesken, Andreas	OMAE2022-80803 (06-15-01)
Buhagiar, Daniel	OMAE2022-78138 (09-05-01); OMAE2022-79073 (09-05-01)
Bui, Khanh	OMAE2022-79488 (06-04-01)
Buil, Patrik	OMAE2022-87434 (07-05-01)
Bunnik, Tim	OMAE2022-79001 (08-02-01); OMAE2022-79045 (08-05-01)
Burge, Cole	OMAE2022-81518 (09-02-06)
Butt, Stephen	OMAE2022-79227 (10-01-02); OMAE2022-79273 (11-01-01); OMAE2022-79349 (11-01-02); OMAE2022-81556 (11-01-02)
Butterfield, Joseph	OMAE2022-79407 (09-01-02)
Byrne, Tom	OMAE2022-80313 (03-05-01)

C

Cai, Minbo	OMAE2022-78850 (01-01-01)
Cai, Wei	OMAE2022-80679 (08-04-03)
Cai, Yuecheng	OMAE2022-79199 (02-12-01)
Califano, Andrea	OMAE2022-79152 (01-06-01)
Cambuli, Francesco	OMAE2022-80986 (09-02-05)
Campbell, Scott	OMAE2022-80089 (11-01-02)
Campobasso, Sergio	OMAE2022-79230 (09-01-07)
Canard, Maxime	OMAE2022-79880 (06-16-03)
Cao, Jie	OMAE2022-78427 (11-04-01); OMAE2022-78752 (11-04-01); OMAE2022-79747 (11-04-02)
Cao, Lingjun	OMAE2022-79401 (04-03-02)
Cao, Qun	OMAE2022-78666 (09-01-08)
Capelle, François-Guillaume	OMAE2022-79870 (04-03-01)
Carapellese, Fabio	OMAE2022-81530 (09-02-01)
Cardozo De Mello, Pedro	OMAE2022-78714 (06-11-01)
Carlton, Brian	OMAE2022-80164 (10-01-02); OMAE2022-80169 (10-04-01)
Carneiro Campello, George	OMAE2022-79419 (04-01-02)
Carre De Oliveira, Allan	OMAE2022-79917 (04-02-01)
Carvalho, Roberto	OMAE2022-80858 (11-03-02)
Casalone, Pietro	OMAE2022-81447 (09-02-04)
Castro Casas, Natalia	OMAE2022-79155 (09-01-04)
Castro, Gustavo	OMAE2022-80003 (11-12-02)
Caurin, Glauco Augusto De Paula	OMAE2022-78607 (06-07-01)
Cayeux, Eric	OMAE2022-78339 (11-01-01); OMAE2022-78633 (11-02-02)
Cederfeldt, Markus	OMAE2022-79862 (04-03-01)
Cerik, Burak Can	OMAE2022-80686 (02-09-02); OMAE2022-81221 (02-10-01)
Cetin, Ali	OMAE2022-78261 (06-05-01)
Chai, Wei	OMAE2022-80095 (02-03-01); OMAE2022-80098 (02-09-03); OMAE2022-81304 (07-03-01)
Chalkias, Dimitris	OMAE2022-78395 (01-06-01)
Chamssine, Fawzi	OMAE2022-78376 (11-07-01)
Chang-Zhe, Chen	OMAE2022-78547 (08-01-02)
Chang, Xueying	OMAE2022-81033 (02-13-01)

AUTHOR INDEX

Chapeleau, Xavier	OMAE2022-79079 (01-01-01)
Chataigner, Sylvain	OMAE2022-79079 (01-01-01)
Chatzipetros, Dimitrios	OMAE2022-80962 (04-01-05)
Chauvigné, Camille	OMAE2022-79155 (09-01-04); OMAE2022-80174 (06-05-03)
Chen, Bai-Qiao	OMAE2022-87473 (03-06-01)
Chen, Haibo	OMAE2022-78952 (02-10-02)
Chen, Haoliang	OMAE2022-78937 (06-12-01)
Chen, Hongbo	OMAE2022-78264 (11-02-01)
Chen, Jialun	OMAE2022-81298 (12-03-01)
Chen, Jiaxin	OMAE2022-79897 (09-02-01)
Chen, Jingyao	OMAE2022-79828 (08-01-02)
Chen, Ke	OMAE2022-78799 (06-05-01)
Chen, Lifen	OMAE2022-81242 (06-03-04)
Chen, Ming	OMAE2022-81470 (09-02-06)
Chen, Mingqiang	OMAE2022-79775 (11-10-04)
Chen, Nian-Zhong	OMAE2022-78707 (02-04-02)
Chen, Peng	OMAE2022-79735 (09-01-05)
Chen, Wei	OMAE2022-79456 (11-08-01)
Chen, Ying-Chuan	OMAE2022-79607 (08-01-01)
Chen, Yuanhang	OMAE2022-78721 (11-03-02); OMAE2022-79176 (11-03-01)
Chen, Yunbin	OMAE2022-81032 (06-05-04)
Chen, Zehua	OMAE2022-80869 (11-11-01)
Chen, Zhanyang	OMAE2022-79661 (07-03-01)
Chen, Zhengqiao	OMAE2022-80679 (08-04-03)
Chen, Zhishuo	OMAE2022-79610 (11-02-03)
Cheng, Ankang	OMAE2022-78405 (02-06-01)
Cheng, Hui	OMAE2022-78570 (05-02-01)
Cheng, Liang	OMAE2022-80172 (04-01-05)
Cheng, Po Wen	OMAE2022-81065 (09-01-12)
Cheng, Yongming	OMAE2022-79323 (05-05-02)
Cheng, Zhengshun	OMAE2022-78666 (09-01-08)
Childs, Ian	OMAE2022-78650 (02-06-01)
Chiu, Pao-Hsiung	OMAE2022-81237 (08-04-04)
Choi, Young Jae	OMAE2022-80164 (10-01-02)
Chong, Dave Chen Lung	OMAE2022-81373 (01-01-02)
Chou, Mike	OMAE2022-86751 (09-01-11)
Choung, Joonmo	OMAE2022-80686 (02-09-02); OMAE2022-81221 (02-10-01)
Christensen, Erik Damgaard	OMAE2022-79002 (06-02-01); OMAE2022-80255 (08-05-02)
Chrysochos, Andreas I.	OMAE2022-80962 (04-01-05)
Chu, Kai	OMAE2022-80407 (06-07-02)
Chu, Zhuyu	OMAE2022-79323 (05-05-02)
Chua, Kie Hian	OMAE2022-79054 (06-05-02); OMAE2022-80042 (12-03-01)
Chuang, Zhenju	OMAE2022-80593 (09-01-09)
Chujo, Toshiki	OMAE2022-78964 (09-01-01)
Chunmiao, Luo	OMAE2022-81293 (04-01-03)
Cinello, Alexandre	OMAE2022-78985 (09-01-12); OMAE2022-80271 (08-07-02)
Coe, Ryan	OMAE2022-78810 (06-03-02); OMAE2022-80731 (09-02-02)
Cohen, Rotem	OMAE2022-78564 (02-01-01)
Coles, Daniel	OMAE2022-80172 (04-01-05)
Collier, Benjamin	OMAE2022-79308 (03-05-01)
Colmenares-Rausseo, Luis	OMAE2022-78379 (09-05-01)
Colonna Rosman, Paulo César	OMAE2022-79603 (06-02-02)
Coloschi, Mariano	OMAE2022-79322 (03-04-01)
Connaire, Adrian	OMAE2022-79008 (04-01-03)
Constantinides, Yiannis	OMAE2022-87489 (08-07-02)
Coppejans, Okko	OMAE2022-79655 (02-10-02)
Correia, Jose	OMAE2022-79598 (09-01-14)
Costa, Anna Helena Reali	OMAE2022-78607 (06-07-01)

AUTHOR INDEX

Costa, Daniel	OMAE2022-78926 (06-03-02)
Cotrim, Lucas Pereira	OMAE2022-78603 (06-07-01)
Coules, Harry	OMAE2022-80997 (03-04-01)
Cournoyer, Elliott	OMAE2022-79424 (11-05-02)
Cozman, Fabio Gagliardi	OMAE2022-78603 (06-07-01)
Cravero, Sebastian	OMAE2022-79322 (03-04-01)
Crego-Loureiro, César	OMAE2022-78810 (06-03-02)
Crespo, Alejandro Jacobo	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Cripps, Edward	OMAE2022-79265 (09-01-14)
Croonenborghs, Eloïse	OMAE2022-79147 (01-06-01); OMAE2022-79152 (01-06-01)
Crowle, Alan	OMAE2022-78095 (09-01-01)
Cuerva-Tejero, Alvaro	OMAE2022-79827 (09-01-13)
Cui, Qing	OMAE2022-81085 (01-01-02)
Cui, Yongdong	OMAE2022-81256 (08-04-03)
Cutajar, Charise	OMAE2022-78138 (09-05-01)

D

Dahl, Niels Christian	OMAE2022-79907 (02-12-02)
Dahl, Thomas	OMAE2022-78394 (11-02-01)
Daneshian, Bahman	OMAE2022-87375 (02-05-01); OMAE2022-87377 (02-05-01)
Dao, Duy Anh	OMAE2022-80822 (10-03-01)
Dao, My Ha	OMAE2022-81236 (08-03-01); OMAE2022-81237 (08-04-04); OMAE2022-81256 (08-04-03); OMAE2022-81334 (08-04-03)
Darcis, Philippe	OMAE2022-79322 (03-04-01)
Das Neves, Luciana	OMAE2022-81070 (09-02-04)
Das, Suvabrata	OMAE2022-80547 (01-08-01); OMAE2022-86835 (06-07-02)
Davies, Peter	OMAE2022-79114 (09-03-02)
Davis, Jacob	OMAE2022-81518 (09-02-06)
de Alfonso, Marta	OMAE2022-78334 (12-02-01)
De Arruda Martins, Clóvis	OMAE2022-78599 (04-01-03)
De Barros Gallo, Alexandre	OMAE2022-80003 (11-12-02)
De Guzmán, Santiago	OMAE2022-81065 (09-01-12)
de Koster, Pascal	OMAE2022-78882 (06-16-01)
De La Cour, Dorthé	OMAE2022-78959 (04-01-03)
De Lacerda, Thiago Ângelo	OMAE2022-79118 (02-06-02)
De Marco Muscat-Fenech, Claire	OMAE2022-81431 (08-05-01)
De Pinho, Uggo F.	OMAE2022-81191 (02-01-01)
De Ridder, Erik-Jan	OMAE2022-79509 (08-06-02)
De Siqueira, Marcos	OMAE2022-79118 (02-06-02)
De Souza, Rodolfo F.	OMAE2022-79419 (04-01-02)
De Weck, Olivier	OMAE2022-80349 (06-14-02)
De Wilde, Jaap	OMAE2022-78434 (12-01-02); OMAE2022-79509 (08-06-02)
Decrop, Boudewijn	OMAE2022-80407 (06-07-02)
Deeks, Andrew	OMAE2022-81101 (10-03-01)
Delhayé, Virgile	OMAE2022-79167 (05-05-03)
Delivré, Quentin	OMAE2022-79924 (01-01-01)
Delizisis, Panagiotis	OMAE2022-79509 (08-06-02); OMAE2022-80962 (04-01-05)
Dell'edera, Oronzo	OMAE2022-81447 (09-02-04)
Demarco Muscat-Fenech, Claire	OMAE2022-86100 (08-07-02)
Demirel, Yigit Kemal	OMAE2022-81431 (08-05-01); OMAE2022-86100 (08-07-02)
Dempwolff, León-Carlos	OMAE2022-81080 (08-05-01)
Deng, Weihua	OMAE2022-78951 (08-04-02); OMAE2022-79104 (08-07-01); OMAE2022-79768 (08-04-02)
Deng, Xingqi	OMAE2022-79871 (06-11-03)
Denoël, Vincent	OMAE2022-78644 (01-03-01); OMAE2022-80114 (02-09-03)
Desmars, Nicolas	OMAE2022-78601 (12-03-01); OMAE2022-78988 (12-03-01)
Desmond, Cian	OMAE2022-78352 (09-01-14); OMAE2022-79407 (09-01-02)
Detlefsen, Ole	OMAE2022-78713 (06-12-01)
Dev Singh, Pragalbh	OMAE2022-81308 (06-14-03)

AUTHOR INDEX

Devulder, Aymeric	OMAE2022-80071 (09-01-09)
Dhar, Sushmit	OMAE2022-79919 (06-04-02)
Dias, Frederic	OMAE2022-79817 (01-08-02); OMAE2022-79865 (06-16-02)
Dib, Elie	OMAE2022-79151 (04-03-02)
Dilger, Klaus	OMAE2022-78431 (02-04-01)
Diniz E Castro, Juliana	OMAE2022-78431 (02-04-01)
Djanuar, Yanfidra	OMAE2022-79074 (11-10-03)
Dobson, Tamsin	OMAE2022-80997 (03-04-01)
Dodge, Michael	OMAE2022-79852 (03-04-01)
Dogan, Huseyin Ali	OMAE2022-78659 (11-01-01)
Dolatshah, Azam	OMAE2022-79613 (01-09-01)
Domínguez, José Manuel	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Donderer, Matthias	OMAE2022-78674 (06-03-01)
Dong, Guohua	OMAE2022-79791 (08-07-02)
Dong, Kai	OMAE2022-79450 (08-02-01); OMAE2022-79453 (08-02-01)
Dong, Pingsha	OMAE2022-87473 (03-06-01)
Dong, Sheng	OMAE2022-79283 (09-01-02); OMAE2022-79286 (06-02-01); OMAE2022-79289 (02-03-01)
Donni De Sena, Bernardo	OMAE2022-79917 (04-02-01)
Doole, Siobhan	OMAE2022-80172 (04-01-05)
Doran, W. John	OMAE2022-79407 (09-01-02)
Dörner, Alfons	OMAE2022-78764 (07-01-01)
Dørum, Cato	OMAE2022-81112 (02-10-01)
Dourdounis, Efthimios	OMAE2022-79129 (04-03-01)
Draper, Scott	OMAE2022-79449 (01-05-01); OMAE2022-80172 (04-01-05); OMAE2022-80885 (09-02-01); OMAE2022-81219 (06-12-02); OMAE2022-81242 (06-03-04); OMAE2022-81298 (12-03-01)
Draycott, Samuel	OMAE2022-80596 (06-16-03)
Drobyshevski, Yuriy	OMAE2022-79924 (01-01-01)
Drouet, Aurelien	OMAE2022-79208 (08-01-01)
Drumond, Geovana	OMAE2022-79165 (03-05-01)
Du, Yongjun	OMAE2022-79231 (04-02-02)
Duba, Kurabachew	OMAE2022-78191 (09-02-03)
Ducrozet, Guillaume	OMAE2022-79152 (01-06-01); OMAE2022-79163 (06-03-03); OMAE2022-79880 (06-16-03)
Dührkop, Jan	OMAE2022-79329 (10-04-01)
Dumergue, Nicolas	OMAE2022-79114 (09-03-02)
Durand-Gasselin, Jonas	OMAE2022-79870 (04-03-01)
Durgut, Ismail	OMAE2022-78659 (11-01-01)
Düster, Alexander	OMAE2022-80507 (08-04-01)
Duz, Bulent	OMAE2022-78434 (12-01-02); OMAE2022-79126 (06-07-01)

E

E. Schellin, Thomas	OMAE2022-80115 (08-06-02)
Echtermeyer, Andreas T.	OMAE2022-80646 (06-04-02)
Edoardo, Pasta	OMAE2022-81361 (09-02-03)
Edvardsen, Kåre	OMAE2022-79919 (06-04-02)
Ehlers, Sören	OMAE2022-78431 (02-04-01); OMAE2022-78764 (07-01-01); OMAE2022-78878 (07-07-01); OMAE2022-80767 (07-09-01); OMAE2022-82014 (02-04-02); OMAE2022-87434 (07-05-01)
Ehlers, Svenja	OMAE2022-78601 (12-03-01)
Ehsan, Samiul	OMAE2022-78427 (11-04-01)
Eidnes, Solve	OMAE2022-79015 (08-06-01)
Ekerhovd, Ivan	OMAE2022-80758 (01-05-01)
El Beshbichi, Omar	OMAE2022-78877 (09-01-11); OMAE2022-78997 (06-11-01)
El Moctar, Bettar Ould	OMAE2022-78835 (12-01-01)
El Moctar, Ould	OMAE2022-78536 (06-03-01); OMAE2022-79571 (12-01-01); OMAE2022-80115 (08-06-02)
El Sheshtawy, Hassan	OMAE2022-80115 (08-06-02)
Ellefmo, Steinar	OMAE2022-81273 (11-12-02)
Elobeid, Mujahid	OMAE2022-79248 (09-01-10)
Emblemsvåg, Jan	OMAE2022-79488 (06-04-01)
Emmerson, Paul	OMAE2022-78758 (08-07-01)

AUTHOR INDEX

Endresen, Per Christian	OMAE2022-78924 (05-02-01)
Enet, Francois	OMAE2022-80274 (06-02-02)
Englund, Even	OMAE2022-79080 (03-06-01)
Erge, Oney	OMAE2022-79623 (11-04-02)
Eriksen, Morten	OMAE2022-78959 (04-01-03)
Ermakov, Andrei	OMAE2022-80990 (09-02-05)
Ersdal, Gerhard	OMAE2022-81289 (03-03-01)
Ertekin, R. Cengiz	OMAE2022-79413 (06-02-01)
Esperança, Paulo De Tarso Themistocles	OMAE2022-79063 (06-03-02)
Esteve, Jose	OMAE2022-81198 (01-08-01)
Evans, Cristina	OMAE2022-78261 (06-05-01)
Eves, Simon	OMAE2022-80313 (03-05-01)
Ewans, Kevin	OMAE2022-79053 (02-02-01)
Exposito, Aintzane	OMAE2022-80919 (01-02-01)
Eyni, Leila	OMAE2022-79513 (04-04-01)

F

Faanes, Audun	OMAE2022-80637 (11-08-01)
Fabricius, Lukas	OMAE2022-78378 (08-06-02)
Facciolo, Gabriele	OMAE2022-79817 (01-08-02)
Faedo, Nicolas	OMAE2022-81267 (09-02-06); OMAE2022-81361 (09-02-03)
Fan, Ning	OMAE2022-79515 (09-01-07)
Fan, Qi	OMAE2022-79775 (11-10-04)
Fan, Shejun	OMAE2022-86835 (06-07-02)
Fan, Shidong	OMAE2022-80359 (06-11-03)
Fang, Guangjie	OMAE2022-78936 (05-02-01); OMAE2022-78941 (01-06-01)
Fang, Pan	OMAE2022-86113 (06-13-01)
Fang, Xuan	OMAE2022-79688 (02-04-02)
Farahat, Mohamed S.	OMAE2022-80569 (11-04-03); OMAE2022-80570 (11-04-03)
Farrugia, Robert N.	OMAE2022-79073 (09-05-01)
Fattahi, Mostafa	OMAE2022-79513 (04-04-01)
Fenerci, Aksel	OMAE2022-78644 (01-03-01); OMAE2022-80114 (02-09-03)
Feneuil, Blandine	OMAE2022-81072 (11-06-01); OMAE2022-81074 (11-07-01)
Feng, Aichun	OMAE2022-78799 (06-05-01)
Feng, Dakui	OMAE2022-78951 (08-04-02); OMAE2022-79000 (08-05-01); OMAE2022-79104 (08-07-01); OMAE2022-79768 (08-04-02); OMAE2022-79772 (08-04-02); OMAE2022-79788 (08-01-02); OMAE2022-79791 (08-07-02); OMAE2022-79795 (08-01-02)
Feng, Guoqing	OMAE2022-79661 (07-03-01)
Feng, Peiyuan	OMAE2022-80098 (02-09-03)
Fernandes, Antonio Carlos	OMAE2022-78926 (06-03-02)
Fernandez Berrocal, Miguel	OMAE2022-78752 (11-04-01)
Fernandez, Gerard	OMAE2022-79239 (08-03-01)
Fernández, Jonathan	OMAE2022-80919 (01-02-01)
Féron, Marie	OMAE2022-79124 (09-01-04)
Ferreira Da Silva, Viviane	OMAE2022-79757 (11-13-01)
Ferreira González, Daniel	OMAE2022-80507 (08-04-01)
Ferreira Senra, Stael	OMAE2022-79917 (04-02-01)
Fershtman, Adam	OMAE2022-79290 (11-07-01)
Fiamma, Vincenzo	OMAE2022-79148 (02-09-01)
Fichler, Christine	OMAE2022-81273 (11-12-02)
Filho, David	OMAE2022-80313 (03-05-01)
Filho, Faete	OMAE2022-78191 (09-02-03)
Filippas, Evangelos	OMAE2022-78811 (06-15-01); OMAE2022-79490 (06-04-01); OMAE2022-79677 (06-14-02)
Finstad Opgård, Marie	OMAE2022-79928 (04-03-01)
Fischer, Claas	OMAE2022-78764 (07-01-01)
Fitzpatrick, Thomas	OMAE2022-79211 (07-05-01)
Fjelde, Kjell Kåre	OMAE2022-79700 (11-03-01)
Flamant, Nicolas	OMAE2022-81120 (11-05-04)

AUTHOR INDEX

Florence, Fred	OMAE2022-80314 (11-13-01)
Flores Ganuza, Imanol	OMAE2022-79916 (09-01-08)
Fogliani, Antonino	OMAE2022-80172 (04-01-05)
Fong, Chong Hang	OMAE2022-81477 (06-14-03)
Fonseca, Icaro	OMAE2022-81505 (01-08-02)
Fonseca, Nuno	OMAE2022-79052 (12-01-01); OMAE2022-79066 (06-05-02); OMAE2022-79149 (01-02-01); OMAE2022-81461 (01-07-01); OMAE2022-81467 (09-01-10)
Fontana, Marco	OMAE2022-81447 (09-02-04)
Fortin, Patrick	OMAE2022-78379 (09-05-01)
Fossa, Alberto	OMAE2022-80003 (11-12-02)
Fouques, Sebastien	OMAE2022-81324 (06-08-01)
Fouvry, Siegfried	OMAE2022-79102 (03-02-01)
Frank, Lemmer	OMAE2022-81065 (09-01-12)
Franza, Andrea	OMAE2022-79853 (10-04-01)
Frigaard, Ian	OMAE2022-78621 (11-05-01); OMAE2022-78935 (11-02-02); OMAE2022-79290 (11-07-01); OMAE2022-79461 (11-05-02); OMAE2022-79753 (11-05-02); OMAE2022-80561 (11-05-03)
Fristedt, Tim	OMAE2022-79186 (06-11-01)
Frühling, Christian	OMAE2022-78413 (12-01-01)
Frutuoso E Melo, Paulo	OMAE2022-79316 (02-14-01)
Fu, Qiang	OMAE2022-79871 (06-11-03)
Fu, Shixiao	OMAE2022-81325 (06-03-04)
Fujii, Kenji	OMAE2022-80883 (09-01-07)
Fujikubo, Masahiko	OMAE2022-78630 (02-16-02); OMAE2022-82308 (02-03-01)
Fujishima, Katsuhide	OMAE2022-79153 (05-05-02)
Fujiwara, Toshifumi	OMAE2022-78370 (05-04-01); OMAE2022-78745 (05-04-01)
Fujiyama, Chikako	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Furevik, Birgitte Rugaard	OMAE2022-79167 (05-05-03)

G

Gabrielsen, Øystein	OMAE2022-79649 (01-02-01)
Gadallah, Ramy	OMAE2022-78529 (02-04-02)
Gaggero, Stefano	OMAE2022-81431 (08-05-01)
Gagliardi Cozman, Fabio	OMAE2022-78608 (06-07-01)
Gaiotti, Marco	OMAE2022-80387 (02-12-01)
Gallego, Aitor	OMAE2022-81467 (09-01-10)
Gao, Deli	OMAE2022-80748 (11-03-01)
Gao, Haijing	OMAE2022-87489 (08-07-02)
Gao, Ju	OMAE2022-78715 (09-01-06)
Gao, Min	OMAE2022-81242 (06-03-04)
Gao, Shan	OMAE2022-79090 (10-02-01)
Gao, Zhen	OMAE2022-78400 (06-11-01); OMAE2022-78666 (09-01-08); OMAE2022-78912 (02-16-02)
Gaoxiang, Wang	OMAE2022-80212 (02-04-01)
Garbatov, Yordan	OMAE2022-78184 (02-07-01); OMAE2022-78185 (02-07-01)
Garcia Pariente, Cristobal	OMAE2022-78308 (03-06-01)
Garcia Prado, Vinicius	OMAE2022-79917 (04-02-01)
Gargili, Ugur	OMAE2022-78659 (11-01-01)
Garlid, Stian	OMAE2022-81122 (02-03-01)
Garrido-Mendoza, Carlos	OMAE2022-81467 (09-01-10)
Gash, Robert	OMAE2022-79255 (07-06-01)
Gaskill, Collin	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01)
Gaspar, Henrique	OMAE2022-81505 (01-08-02)
Gasser, Moamen	OMAE2022-81524 (11-04-03)
Gaudin, Christophe	OMAE2022-81245 (09-01-09)
Gavriilidis, Ilias	OMAE2022-79129 (04-03-01)
Ge, Yang	OMAE2022-79775 (11-10-04)
Georgallis, Georgios	OMAE2022-79509 (08-06-02)
Geremias Toni, Fernando	OMAE2022-78599 (04-01-03)
Geuzaine, Margaux	OMAE2022-78644 (01-03-01); OMAE2022-80114 (02-09-03)

AUTHOR INDEX

Ghazal, Abdallah M.	OMAE2022-78930 (11-05-01)
Ghigo, Alberto	OMAE2022-81530 (09-02-01)
Ghisu, Tiziano	OMAE2022-80986 (09-02-05)
Ghosh, Bisweswar	OMAE2022-79249 (11-10-02)
Ghoshal, Ritwik	OMAE2022-80601 (04-01-01)
Gibrata, Muhammad	OMAE2022-79074 (11-10-03)
Gilloteaux, Jean-Christophe	OMAE2022-79163 (06-03-03); OMAE2022-81116 (09-01-10)
Gioia, Daniele Giovanni	OMAE2022-81464 (09-02-02)
Giorcelli, Filippo	OMAE2022-81464 (09-02-02)
Giorgi, Giuseppe	OMAE2022-81267 (09-02-06)
Giro, Felipe	OMAE2022-78269 (02-14-01)
Giry, Eric	OMAE2022-79856 (04-03-01); OMAE2022-79870 (04-03-01)
Gittos, Mike	OMAE2022-79852 (03-04-01)
Gjersdal, Benedicte	OMAE2022-80314 (11-13-01)
Gjersvik, Tor Berge	OMAE2022-80637 (11-08-01); OMAE2022-81273 (11-12-02)
Glatzer, Lars	OMAE2022-79026 (06-11-02)
Glosson, Gabriel	OMAE2022-78191 (09-02-03)
Goerlandt, Floris	OMAE2022-79206 (07-03-01)
Golz, Matthias	OMAE2022-78583 (06-05-01)
Gomes, Tiago	OMAE2022-81337 (08-04-03)
Gómez Gesteira, Moncho	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Gomola, Alojz	OMAE2022-78912 (02-16-02)
Gonçalves, Rodolfo	OMAE2022-79016 (08-04-01); OMAE2022-79264 (06-05-02)
Gong, Hanyang	OMAE2022-81054 (07-03-01)
Gonzalez, Gabriel	OMAE2022-78468 (02-06-01)
Gopalakrishnakurup, Renjeev	OMAE2022-81456 (02-09-01)
Gordon, John	OMAE2022-83455 (04-02-01)
Goseberg, Nils	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01); OMAE2022-81080 (08-05-01)
Gotoh, Koji	OMAE2022-87473 (03-06-01)
Grabe, Jürgen	OMAE2022-80822 (10-03-01); OMAE2022-81150 (10-02-01); OMAE2022-81151 (10-01-02)
Grebstad, Ray Thomas	OMAE2022-81026 (06-05-04)
Greve, Martin	OMAE2022-78583 (06-05-01)
Griffith, D. Todd	OMAE2022-78715 (09-01-06); OMAE2022-79137 (09-01-06)
Griffiths, Terry	OMAE2022-78728 (04-04-01); OMAE2022-80172 (04-01-05)
Griggs, Randall	OMAE2022-78728 (04-04-01)
Grime, Andrew	OMAE2022-78017 (04-01-01)
Grimm, Jan-Hendrik	OMAE2022-78431 (02-04-01)
Grivas, Konstantinos	OMAE2022-79509 (08-06-02)
Grossmann, Ignacio E.	OMAE2022-78551 (11-12-01)
Großmann, Jochen	OMAE2022-79916 (09-01-08)
Grytøyr, Guttorm	OMAE2022-79006 (09-01-10); OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Gu, Jian	OMAE2022-80095 (02-03-01)
Gu, Xiechong	OMAE2022-79532 (06-12-02)
Gu, Zhuhao	OMAE2022-79642 (06-14-01)
Guanche, Raul	OMAE2022-79834 (09-01-12)
Gucuyener, Ismail Hakki	OMAE2022-78546 (11-02-02); OMAE2022-78659 (11-01-01)
Guedes Soares, Carlos	OMAE2022-78184 (02-07-01); OMAE2022-78185 (02-07-01); OMAE2022-79037 (12-02-01); OMAE2022-79048 (12-01-02)
Guerrero-Fernandez, Juan Luis	OMAE2022-80972 (09-02-05)
Gui, Hongbin	OMAE2022-79661 (07-03-01)
Guisser, Meryem	OMAE2022-79114 (09-03-02)
Gullaksen, Joannes	OMAE2022-79261 (06-11-02); OMAE2022-80153 (06-05-03)
Gumley, Jon	OMAE2022-79274 (02-03-01)
Gunawan, Suwarno	OMAE2022-79862 (04-03-01)
Günther, Heinz	OMAE2022-79652 (02-01-03)
Guo, Shujun	OMAE2022-80261 (11-01-02)

AUTHOR INDEX

Guo, Xinshuai	OMAE2022-80775 (10-04-01)
Guo, Yinghao	OMAE2022-80037 (06-03-04)
Guo, Yingying	OMAE2022-80261 (11-01-02)
Gurcay, Kazim Onur	OMAE2022-78546 (11-02-02)
Gustafsson, Sandra	OMAE2022-81319 (03-03-01)

H

Ha, Yoon-Jin	OMAE2022-87901 (01-06-01)
Haagensen, Per	OMAE2022-79649 (01-02-01)
Haba, Yvonne	OMAE2022-79049 (06-11-02)
Hageman, Remco	OMAE2022-79126 (06-07-01)
Hagen, Catalina	OMAE2022-87377 (02-05-01)
Haghighyeghi, Zohreh Sadat	OMAE2022-80863 (04-01-02)
Haji, Maha	OMAE2022-80349 (06-14-02)
Haldorsen, Lars Magne	OMAE2022-79852 (03-04-01)
Halse, Karl Henning	OMAE2022-79844 (09-01-02); OMAE2022-80701 (09-01-03)
Halsne, Marita	OMAE2022-81289 (03-03-01)
Halswell, Peter	OMAE2022-79855 (09-01-08)
Hamada, Eigai	OMAE2022-79320 (05-06-01)
Hammer, Tim	OMAE2022-78507 (07-05-01); OMAE2022-78972 (07-01-01)
Han, Jialin	OMAE2022-79503 (05-05-03)
Han, Seung-Yoon	OMAE2022-81116 (09-01-10)
Han, Xinyu	OMAE2022-79286 (06-02-01)
Hannigan, Paddy	OMAE2022-79407 (09-01-02)
Hansen, Ragnhild Christin	OMAE2022-80164 (10-01-02)
Hånsnar, Gaute	OMAE2022-80314 (11-13-01)
Hanssen, Finn-Christian	OMAE2022-80520 (08-03-01)
Hanssen, Jan Erik	OMAE2022-79248 (09-01-10)
Hao, Tongchun	OMAE2022-79022 (11-10-03)
Hardwick, Jon	OMAE2022-79348 (09-03-01)
Haroun, Mohamed	OMAE2022-79074 (11-10-03)
Haroutunian, Maryam	OMAE2022-79891 (06-14-02)
Harris, Trevor	OMAE2022-81324 (06-08-01)
Hartmann, Moritz	OMAE2022-78601 (12-03-01); OMAE2022-78988 (12-03-01)
Hasan, Abu Rashid	OMAE2022-79540 (11-03-02)
Hasan, Muhammad Sohail	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Hasan, Rashid	OMAE2022-79570 (11-03-01)
Hasegawa, Kenta	OMAE2022-80248 (06-12-02)
Haselsteiner, Andreas	OMAE2022-79081 (09-01-01); OMAE2022-79203 (09-01-02)
Haslum, Herbjørn	OMAE2022-79006 (09-01-10)
Hassan, Ghulam Mubashar	OMAE2022-79265 (09-01-14)
Hassan, Nurzarina	OMAE2022-81373 (01-01-02)
Hassani, Milad	OMAE2022-78823 (05-05-02)
Hassanzadeh, Hossein	OMAE2022-79424 (11-05-02)
Hasund, Nils	OMAE2022-78952 (02-10-02)
Haugaløkken, Bent	OMAE2022-79913 (06-11-03)
Haver, Sverre Kristian	OMAE2022-80945 (02-09-01)
Hayatdavoodi, Masoud	OMAE2022-79413 (06-02-01); OMAE2022-81210 (09-03-01)
Hayes, Kevin	OMAE2022-80539 (10-03-02); OMAE2022-81036 (10-03-02)
He, Lin	OMAE2022-80098 (02-09-03)
He, Tao	OMAE2022-79788 (08-01-02); OMAE2022-79795 (08-01-02)
He, Yining	OMAE2022-80564 (01-01-02)
He, Zhen	OMAE2022-80593 (09-01-09)
Heimdal, Anette	OMAE2022-79057 (03-05-01)
Hejazi, Rasoul	OMAE2022-78017 (04-01-01)
Helder, Joop	OMAE2022-80520 (08-03-01)
Helle, Inari	OMAE2022-80767 (07-09-01); OMAE2022-80903 (07-09-01)
Hellum, Vidar	OMAE2022-79057 (03-05-01)

AUTHOR INDEX

Helmerts, Jens Bloch	OMAE2022-81272 (08-04-04)
Hendrikse, Hayo	OMAE2022-78507 (07-05-01); OMAE2022-78764 (07-01-01); OMAE2022-78972 (07-01-01)
Hensel, Jonas	OMAE2022-78431 (02-04-01)
Heo, Taemin	OMAE2022-79353 (05-05-02); OMAE2022-79598 (09-01-14)
Heo, YeongAe	OMAE2022-81048 (02-16-01)
Herrnring, Hauke	OMAE2022-78068 (07-01-01); OMAE2022-78186 (07-07-01); OMAE2022-80767 (07-09-01)
Hesse, Ann-Christin	OMAE2022-78431 (02-04-01)
Hildebrandt, Arndt	OMAE2022-80510 (08-03-01)
Hildre, Hans Petter	OMAE2022-79844 (09-01-02)
Hinostroza, Miguel	OMAE2022-79278 (06-16-02)
Hirabayashi, Shinichiro	OMAE2022-80344 (09-01-12); OMAE2022-80564 (01-01-02)
Hirdaris, Spyros	OMAE2022-79702 (06-05-03); OMAE2022-80393 (02-09-03); OMAE2022-80598 (06-03-04)
Hisamatsu, Ryoya	OMAE2022-78136 (05-05-01)
Hisette, Quentin	OMAE2022-78885 (07-04-01); OMAE2022-79014 (07-05-01)
Hlawatsch, Eva	OMAE2022-79916 (09-01-08)
Hlophe, Thobani	OMAE2022-80885 (09-02-01)
Höche, Daniel	OMAE2022-87375 (02-05-01); OMAE2022-87377 (02-05-01)
Hodkiewicz, Melinda	OMAE2022-79265 (09-01-14)
Hoffmann, Norbert	OMAE2022-78569 (12-02-01); OMAE2022-78601 (12-03-01); OMAE2022-78988 (12-03-01)
Hoffmeister, Hasso	OMAE2022-80511 (02-07-01)
Høgsberg, Jan	OMAE2022-79907 (02-12-02)
Höhn, Patrick	OMAE2022-79543 (11-04-02)
Holden, Harald	OMAE2022-81117 (04-02-02); OMAE2022-81380 (04-02-02)
Holdyk, Andrzej	OMAE2022-78802 (11-12-01)
Holt, Torleif	OMAE2022-78790 (11-12-01)
Holyst, Cyril	OMAE2022-81285 (04-01-04)
Honaryar, Amir	OMAE2022-78762 (09-04-01)
Hopman, Hans	OMAE2022-86113 (06-13-01)
Horn, Agnes	OMAE2022-81319 (03-03-01); OMAE2022-81503 (08-07-02)
Hørte, Torfinn	OMAE2022-81122 (02-03-01); OMAE2022-81463 (02-06-02); OMAE2022-81465 (02-06-02)
Hou, Yucheng	OMAE2022-83730 (04-01-01)
Hou, Zhengmeng	OMAE2022-80506 (11-05-03)
Hovda, Sigve	OMAE2022-78532 (11-02-01)
Høyland, Knut	OMAE2022-78764 (07-01-01)
Hrycyna, Grzegorz	OMAE2022-79821 (10-01-01)
Hsu, I-Jen	OMAE2022-86751 (09-01-11)
Hu, Changhong	OMAE2022-79910 (06-03-03)
Hu, Tengyan	OMAE2022-79804 (08-06-01)
Hu, Zhengyu	OMAE2022-79099 (06-02-01)
Hu, Zhiqiang	OMAE2022-78196 (01-01-01); OMAE2022-79044 (04-02-03); OMAE2022-79084 (04-02-03); OMAE2022-79735 (09-01-05); OMAE2022-79879 (09-01-07)
Huang, Jerry	OMAE2022-78981 (08-01-01)
Huang, Jianghao	OMAE2022-79000 (08-05-01); OMAE2022-79779 (08-02-01)
Huang, Jin	OMAE2022-81422 (06-12-02)
Huang, Lin	OMAE2022-78523 (11-11-01)
Huang, Liuyi	OMAE2022-78936 (05-02-01)
Huang, Luofeng	OMAE2022-79099 (06-02-01); OMAE2022-80106 (07-04-01); OMAE2022-80110 (09-02-03); OMAE2022-80182 (06-01-01)
Huang, Maosong	OMAE2022-79769 (10-02-01)
Huang, Qiyu	OMAE2022-79456 (11-08-01)
Huang, Yang	OMAE2022-78288 (09-01-06)
Huang, Yun-Tzu	OMAE2022-86751 (09-01-11)
Huang, Zheng-Zhang	OMAE2022-86751 (09-01-11)
Huang, Zhenjia (Jerry)	OMAE2022-79147 (01-06-01)
Hübler, Clemens	OMAE2022-79698 (09-01-04)
Huera-Huarte, Francisco	OMAE2022-78552 (09-01-06)
Hughes, Nick	OMAE2022-79051 (07-02-01)
Husain, Salman	OMAE2022-78191 (09-02-03); OMAE2022-81518 (09-02-06)
Hydar, Venus	OMAE2022-81100 (12-01-02)

AUTHOR INDEX

I

Igland, Ragnar	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01); OMAE2022-80657 (04-03-02)
Iijima, Kazuhiro	OMAE2022-78630 (02-16-02); OMAE2022-79446 (08-01-01); OMAE2022-79636 (05-05-03); OMAE2022-82308 (02-03-01)
Ikoma, Tomoki	OMAE2022-79153 (05-05-02); OMAE2022-79452 (05-04-01); OMAE2022-79910 (06-03-03)
Ilistad, Håvar	OMAE2022-79216 (04-03-01); OMAE2022-79928 (04-03-01)
Imai, Motoko	OMAE2022-80564 (01-01-02)
Imasato, Motonobu	OMAE2022-78370 (05-04-01)
Immas, Alexandre	OMAE2022-81477 (06-14-03)
Imtiaz, Syed	OMAE2022-79255 (07-06-01)
Inaba, Shogo	OMAE2022-78370 (05-04-01)
Ingram, David	OMAE2022-79248 (09-01-10)
Innocenti, Alessio	OMAE2022-78661 (02-01-02)
Iribas-Latour, Mikel	OMAE2022-79827 (09-01-13)
Isaksen, Lasse	OMAE2022-87376 (02-05-01)
Ishida, Kei	OMAE2022-80248 (06-12-02)
Islam, Md Shafiqul	OMAE2022-79445 (01-05-01)
Islam, Shameem	OMAE2022-79255 (07-06-01)
Ismail, M Faqrudin B	OMAE2022-81373 (01-01-02)
Isnadi, Biramarta	OMAE2022-81373 (01-01-02)
Isnaini, Rodhiatul	OMAE2022-79636 (05-05-03)
Itakura, Hiroshi	OMAE2022-79503 (05-05-03)
Ivanov, Glib	OMAE2022-86751 (09-01-11)
Iwashita, Tsutomu	OMAE2022-78305 (03-01-01)
Izadi, Mahdi	OMAE2022-79461 (11-05-02)

J

Jafari, Mohammad	OMAE2022-78715 (09-01-06); OMAE2022-79137 (09-01-06)
Jahani, Nazanin	OMAE2022-79046 (11-04-01)
Jalilvand, Soroosh	OMAE2022-78352 (09-01-14)
Jamil, Mohammad Shafaet	OMAE2022-79349 (11-01-02)
Jamissen, Philip Lundberg	OMAE2022-79485 (06-01-01)
Jang, Hyunchul	OMAE2022-79147 (01-06-01); OMAE2022-80112 (09-01-03); OMAE2022-80539 (10-03-02); OMAE2022-81036 (10-03-02)
Janocha, Marek	OMAE2022-78378 (08-06-02); OMAE2022-78925 (06-05-01)
Jaouen, Frederick	OMAE2022-79001 (08-02-01)
Jara, Cristian	OMAE2022-80271 (08-07-02)
Jarquín Laguna, Antonio	OMAE2022-79119 (09-02-02); OMAE2022-80276 (09-03-02); OMAE2022-80422 (09-05-01)
Jarreta, Claudio	OMAE2022-80313 (03-05-01)
Jäschke, Johannes	OMAE2022-78647 (11-13-01)
Jayasinghe, Kanishka	OMAE2022-79274 (02-03-01)
Jelovica, Jasmin	OMAE2022-79199 (02-12-01); OMAE2022-79418 (02-12-01)
Jeong, Chan	OMAE2022-80112 (09-01-03)
Jia, Dezheng	OMAE2022-81422 (06-12-02)
Jiang, Boxi	OMAE2022-81006 (09-03-01)
Jiang, Changqing	OMAE2022-79571 (12-01-01)
Jiang, Fengjian	OMAE2022-79147 (01-06-01); OMAE2022-79469 (08-06-02)
Jiang, Houshun	OMAE2022-78020 (11-10-01); OMAE2022-78021 (11-10-01); OMAE2022-78031 (11-10-01)
Jiang, Minyee	OMAE2022-80796 (08-05-02)
Jiang, Xiaoli	OMAE2022-86113 (06-13-01)
Jiang, Xue	OMAE2022-81290 (09-01-05)
Jiang, Zhiyu	OMAE2022-78799 (06-05-01); OMAE2022-78823 (05-05-02); OMAE2022-78929 (09-01-08); OMAE2022-80933 (09-01-03)
Jiang, Zongyu	OMAE2022-80393 (02-09-03)
Jie, Wang	OMAE2022-78020 (11-10-01); OMAE2022-78021 (11-10-01)
Jin-Zhou, Liu	OMAE2022-78547 (08-01-02)

AUTHOR INDEX

Jin, Chungkuk	OMAE2022-79802 (06-03-03)
Jin, Jingzhe	OMAE2022-79015 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Jin, Yan	OMAE2022-80642 (06-07-02)
Johan Leira, Bernt	OMAE2022-79661 (07-03-01)
Johannesen, Magnus	OMAE2022-80770 (06-02-02)
Johannessen, Jahn Terje	OMAE2022-81026 (06-05-04)
Johanning, Lars	OMAE2022-78417 (09-03-01); OMAE2022-78673 (09-01-10); OMAE2022-79855 (09-01-08)
Johnsen, Lars	OMAE2022-78781 (06-12-01)
Johnsen, Øyvind	OMAE2022-80071 (09-01-09); OMAE2022-81078 (04-02-01)
Johnson, Erland	OMAE2022-79467 (02-12-02)
Johnson, Fraser	OMAE2022-80172 (04-01-05)
Johnston, Carol	OMAE2022-78556 (03-02-01); OMAE2022-78559 (03-01-01)
Jonathan, Philip	OMAE2022-79888 (06-07-02)
Jones, Justin	OMAE2022-78650 (02-06-01)
Jordal, Lars	OMAE2022-79709 (04-01-01)
Jorgensen, Jack	OMAE2022-79265 (09-01-14)
Josefson, Lennart	OMAE2022-79308 (03-05-01); OMAE2022-87473 (03-06-01)
Joshi, Vaibhav	OMAE2022-80601 (04-01-01); OMAE2022-81308 (06-14-03)
Josiah, N.R.	OMAE2022-80063 (05-06-01)
Jostad, Hans Petter	OMAE2022-79167 (05-05-03)
Jung, Dongho	OMAE2022-78729 (02-13-01)
Jung, Heeseok	OMAE2022-78621 (11-05-01); OMAE2022-79753 (11-05-02)
Junren, Que	OMAE2022-79271 (11-10-02)
Jurado, Alfonso	OMAE2022-78308 (03-06-01)
Juswan, Juswan	OMAE2022-79120 (02-11-01)

K

Kaasen, Karl Erik	OMAE2022-79149 (01-02-01)
Kabra, Saurabh	OMAE2022-80997 (03-04-01)
Kaeding, Patrick	OMAE2022-80194 (07-07-01); OMAE2022-80204 (02-11-02)
Kaita, Shouhei	OMAE2022-79783 (06-13-01)
Kakuta, Ryo	OMAE2022-80042 (12-03-01)
Kalofotias, Filippou	OMAE2022-78823 (05-05-02)
Kamath, Arun	OMAE2022-79010 (06-16-01); OMAE2022-79036 (06-05-01)
Kaminski, Pauline	OMAE2022-81151 (10-01-02)
Kamizawa, Ken	OMAE2022-79432 (09-01-13)
Kanada, Shigeo	OMAE2022-79601 (05-03-01); OMAE2022-80247 (05-03-01)
Kane, Pascal-Alexandre	OMAE2022-79649 (01-02-01)
Kaneko, Shunsuke	OMAE2022-80883 (09-01-07)
Kang, Mengchen	OMAE2022-79924 (01-01-01)
Kang, Song-Jin	OMAE2022-79685 (06-04-02)
Kang, Xiaodong	OMAE2022-81340 (11-10-02)
Kanitz, Manuela	OMAE2022-79329 (10-04-01)
Karamanos, Spyros	OMAE2022-79129 (04-03-01); OMAE2022-79151 (04-03-02)
Karatvuori, Helena	OMAE2022-79613 (01-09-01)
Karimfazli, Ida	OMAE2022-78930 (11-05-01)
Karimirad, Madjid	OMAE2022-78352 (09-01-14); OMAE2022-78419 (06-01-01); OMAE2022-78762 (09-04-01); OMAE2022-79728 (09-04-01); OMAE2022-79732 (09-04-01)
Karlsen, Kjetil André	OMAE2022-78139 (04-01-05); OMAE2022-79709 (04-01-01)
Karola, Aaro	OMAE2022-79702 (06-05-03)
Karperaki, Angeliki	OMAE2022-79677 (06-14-02); OMAE2022-79699 (06-15-01)
Karunakaran, Daniel	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Kassim, Yasin	OMAE2022-79862 (04-03-01)
Katayama, Toru	OMAE2022-78175 (05-05-01)
Katsardi, Vanessa	OMAE2022-79089 (06-16-01)
Kawano, Alexandre	OMAE2022-79264 (06-05-02)
Kaynia, Amir	OMAE2022-80164 (10-01-02); OMAE2022-80169 (10-04-01)

AUTHOR INDEX

Kazimierowicz-Frankowska, Krystyna	OMAE2022-78537 (10-01-01); OMAE2022-79821 (10-01-01)
Kees, Christopher E.	OMAE2022-79607 (08-01-01)
Kellner, Leon	OMAE2022-87434 (07-05-01)
Kelly, Michael	OMAE2022-80867 (09-02-04)
Kennedy, Allison	OMAE2022-79514 (07-09-01)
Keprate, Arvind	OMAE2022-81503 (08-07-02)
Kerkeni, Sofien	OMAE2022-79155 (09-01-04)
Ketabdari, Mohammad Javad	OMAE2022-80863 (04-01-02)
Khalid, Faryal	OMAE2022-79855 (09-01-08)
Khalifeh, Mahmoud	OMAE2022-78376 (11-07-01); OMAE2022-78535 (11-12-01); OMAE2022-78634 (11-05-04); OMAE2022-78994 (11-05-01)
Khalili, Pouya	OMAE2022-78994 (11-05-01)
Khan, Faisal	OMAE2022-80767 (07-09-01)
Khan, Muhammad	OMAE2022-79540 (11-03-02)
Khan, Riaz	OMAE2022-81373 (01-01-02)
Khanna, Samir	OMAE2022-79277 (08-07-01)
Khiadani, Mehdi	OMAE2022-78728 (04-04-01)
Khoo, Boo Cheong	OMAE2022-81256 (08-04-03)
Kilner, Andrew	OMAE2022-79274 (02-03-01)
Kim, Beomil	OMAE2022-79445 (01-05-01)
Kim, Chang-Je	OMAE2022-79685 (06-04-02)
Kim, Daegyoun	OMAE2022-87116 (09-05-01)
Kim, Do Kyun	OMAE2022-79566 (02-11-02)
Kim, Ekaterina	OMAE2022-79051 (07-02-01); OMAE2022-79661 (07-03-01)
Kim, Hyoungchul	OMAE2022-80112 (09-01-03)
Kim, Hyunho	OMAE2022-79494 (04-04-01)
Kim, Hyunwoo	OMAE2022-80686 (02-09-02)
Kim, Jang	OMAE2022-79152 (01-06-01); OMAE2022-87901 (01-06-01)
Kim, Jeong Hwan	OMAE2022-81061 (02-09-02); OMAE2022-81305 (02-09-02)
Kim, Ji Hoon	OMAE2022-79765 (03-02-01)
Kim, Kangsoo	OMAE2022-78370 (05-04-01); OMAE2022-78745 (05-04-01)
Kim, Ki Jong	OMAE2022-87116 (09-05-01)
Kim, Kyong-Hwan	OMAE2022-87901 (01-06-01)
Kim, Mark	OMAE2022-81155 (09-02-03)
Kim, Moohyun	OMAE2022-79802 (06-03-03)
Kim, Myung Hyun	OMAE2022-79765 (03-02-01)
Kim, Seon Jin	OMAE2022-81061 (02-09-02)
Kim, Seong Min	OMAE2022-79765 (03-02-01)
Kim, Seonjin	OMAE2022-81305 (02-09-02)
Kim, Seungnam	OMAE2022-81026 (06-05-04)
Kim, Won-Ouk	OMAE2022-79685 (06-04-02)
Kim, Yooil	OMAE2022-80627 (02-02-01)
Kim, Young-Rong	OMAE2022-78433 (06-12-01); OMAE2022-79685 (06-04-02)
Kimiaei, Mehrdad	OMAE2022-79356 (06-08-01)
Kinnas, Spyros A.	OMAE2022-81026 (06-05-04)
Kinugasa, Mizuki	OMAE2022-78175 (05-05-01)
Kirca, V. S. Ozgur	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01)
Kirezci, Cagil	OMAE2022-79053 (02-02-01)
Kistner, Gunnar	OMAE2022-80194 (07-07-01)
Kitazawa, Daisuke	OMAE2022-79503 (05-05-03)
Klæbo, Frank	OMAE2022-79928 (04-03-01)
Klamo, Joseph	OMAE2022-81058 (06-14-03)
Klein, Marco	OMAE2022-78601 (12-03-01); OMAE2022-78878 (07-07-01); OMAE2022-78988 (12-03-01); OMAE2022-79170 (12-02-01)
Klinkenberg, Arnout	OMAE2022-78833 (08-07-01)
Kloster, Ernst	OMAE2022-79073 (09-05-01)
Klungtvedt, Karl Ronny	OMAE2022-79501 (11-02-03); OMAE2022-79502 (11-02-03)
Klüss, Jörn	OMAE2022-80194 (07-07-01)

AUTHOR INDEX

Kniat, Aleksander	OMAE2022-78997 (06-11-01)
Knight, Bradford	OMAE2022-79139 (06-05-02)
Knittel, Lukas	OMAE2022-79696 (10-01-02)
Knobler, Sagi	OMAE2022-78564 (02-01-01); OMAE2022-78567 (02-02-01)
Knudsen, Brage Rugstad	OMAE2022-78551 (11-12-01)
Knudsen, Ole Øystein	OMAE2022-87375 (02-05-01); OMAE2022-87377 (02-05-01)
Kobos, Peter	OMAE2022-80731 (09-02-02)
Kokkinos, Charilaos	OMAE2022-80962 (04-01-05)
Komoriyama, Yusuke	OMAE2022-82308 (02-03-01)
Kong, Xinmin	OMAE2022-79271 (11-10-02)
Koo, Bonjun	OMAE2022-80112 (09-01-03)
Koop, Arjen	OMAE2022-78981 (08-01-01); OMAE2022-79001 (08-02-01)
Kopliku, Ardjan	OMAE2022-79277 (08-07-01)
Körgesaar, Mihkel	OMAE2022-79035 (07-01-01); OMAE2022-80767 (07-09-01)
Körner, Gerhard	OMAE2022-79049 (06-11-02)
Kosleck, Sascha	OMAE2022-79026 (06-11-02); OMAE2022-79049 (06-11-02); OMAE2022-79170 (12-02-01); OMAE2022-79854 (06-11-01); OMAE2022-80516 (06-13-01)
Kougioumtzoglou, Ioannis A.	OMAE2022-81138 (09-02-05)
Kousal, Joshua	OMAE2022-79652 (02-01-03)
Koutrouveli, Theofano	OMAE2022-81070 (09-02-04)
Kristiansen, Trygve	OMAE2022-78986 (06-03-02); OMAE2022-79167 (05-05-03); OMAE2022-79673 (06-03-03); OMAE2022-79718 (01-03-01)
Krogenes, Kåre Olav	OMAE2022-80520 (08-03-01)
Krohmann, Sascha	OMAE2022-79026 (06-11-02); OMAE2022-79049 (06-11-02)
Krueger, Stefan	OMAE2022-80803 (06-15-01)
Krüger, Stefan	OMAE2022-78413 (12-01-01); OMAE2022-78781 (06-12-01)
Ku, Albert	OMAE2022-79773 (02-12-02)
Kubiczek, Jan	OMAE2022-80767 (07-09-01)
Kudella, Matthias	OMAE2022-79821 (10-01-01)
Kuikka, Sakari	OMAE2022-81327 (07-09-01)
Kujala, Pentti	OMAE2022-79206 (07-03-01); OMAE2022-80393 (02-09-03); OMAE2022-80721 (07-09-01); OMAE2022-80767 (07-09-01); OMAE2022-80925 (07-02-01); OMAE2022-81327 (07-09-01)
Kulczykowski, Marek	OMAE2022-78537 (10-01-01)
Kumar Pal, Sumit	OMAE2022-79446 (08-01-01)
Kunita, Atsushi	OMAE2022-79783 (06-13-01)
Kunpeng, Chen	OMAE2022-81293 (04-01-03)
Kurnia, Ruddy	OMAE2022-79163 (06-03-03)
Kurniawan, Adi	OMAE2022-80885 (09-02-01)
Kurowski, Martin	OMAE2022-78583 (06-05-01)
Kuru, Ergun	OMAE2022-78264 (11-02-01)
Kusumoto, Hiroki	OMAE2022-79432 (09-01-13)
Kuthe, Nikesh	OMAE2022-79302 (09-01-14)
Kuwada, Shu	OMAE2022-79432 (09-01-13)
Kvingedal, Børge	OMAE2022-81191 (02-01-01)
Kwa, Katherine	OMAE2022-81101 (10-03-01)
Kwon, Young	OMAE2022-81058 (06-14-03)
Kyaw, Phyo Myat	OMAE2022-78529 (02-04-02)
Kymmell, Jelte	OMAE2022-79459 (04-01-01)
Kyoung, Johyun	OMAE2022-87901 (01-06-01)

L

La Ferlita, Alessandro	OMAE2022-80204 (02-11-02)
Laas, Jaco	OMAE2022-78787 (07-07-01)
Ladeira, Icaro	OMAE2022-79672 (02-10-01)
Laface, Valentina	OMAE2022-79148 (02-09-01); OMAE2022-81323 (02-01-02)
Lai, Lawrence	OMAE2022-80112 (09-01-03); OMAE2022-80539 (10-03-02); OMAE2022-81036 (10-03-02)
Laknath, D.P.C.	OMAE2022-80063 (05-06-01)
Lal, Kevin	OMAE2022-80194 (07-07-01)

AUTHOR INDEX

Lal, Mayank	OMAE2022-78590 (04-02-02); OMAE2022-80480 (04-02-03)
Lambert, William	OMAE2022-80485 (06-05-04)
Lamei, Azin	OMAE2022-81210 (09-03-01)
Lana, Luiz Daniel	OMAE2022-79165 (03-05-01)
Land, Edward	OMAE2022-79879 (09-01-07)
Lande, Øystein	OMAE2022-80770 (06-02-02); OMAE2022-81272 (08-04-04)
Langøy, Morten	OMAE2022-81289 (03-03-01)
Lanoelle, Max	OMAE2022-78017 (04-01-01)
Larrosa, Nicolas	OMAE2022-80997 (03-04-01)
Larsen, Anders A.	OMAE2022-78959 (04-01-03)
Larsen, Henrik Ø.	OMAE2022-78959 (04-01-03)
Larsen, Richard Thyssen Nørby	OMAE2022-79907 (02-12-02)
Lau, Kheng Hoong	OMAE2022-81373 (01-01-02)
Lavidas, George	OMAE2022-79674 (09-02-01); OMAE2022-79869 (09-02-02); OMAE2022-80731 (09-02-02)
Lavra Dias, Pedro Felipe	OMAE2022-78607 (06-07-01)
Laye, Amandine	OMAE2022-79870 (04-03-01)
Le Cunff, Cédric	OMAE2022-78985 (09-01-12)
Le Prin, Kevin	OMAE2022-80271 (08-07-02)
Le Sourne, Hervé	OMAE2022-79672 (02-10-01); OMAE2022-80209 (02-10-01)
Le Touze, David	OMAE2022-81116 (09-01-10)
Le, Quang Tuyen	OMAE2022-81236 (08-03-01); OMAE2022-81334 (08-04-03)
Lecacheux, Sophie	OMAE2022-79888 (06-07-02)
Ledoux, Bart	OMAE2022-79459 (04-01-01)
Lee, Chern Fong	OMAE2022-79483 (09-01-13)
Lee, Hyun Ho	OMAE2022-81061 (02-09-02); OMAE2022-81305 (02-09-02)
Lee, Nayoung	OMAE2022-79494 (04-04-01)
Lee, Patrick	OMAE2022-80169 (10-04-01)
Lee, Seung Yul	OMAE2022-81061 (02-09-02)
Lee, Yu-Chen	OMAE2022-79838 (06-16-02)
Lehmann, Katja	OMAE2022-81065 (09-01-12)
Lei, Jiankang	OMAE2022-79688 (02-04-02)
Leira, Bernt Johan	OMAE2022-78912 (02-16-02); OMAE2022-80095 (02-03-01); OMAE2022-80098 (02-09-03); OMAE2022-80767 (07-09-01); OMAE2022-81304 (07-03-01)
Lemaire, Sébastien	OMAE2022-81337 (08-04-03)
Lenti, Manuel	OMAE2022-79725 (06-11-02)
Lepretre, Emilie	OMAE2022-79079 (01-01-01)
Letournel, Lucas	OMAE2022-79155 (09-01-04); OMAE2022-80174 (06-05-03)
Leung, Pak	OMAE2022-86835 (06-07-02)
Levold, Erik	OMAE2022-79216 (04-03-01); OMAE2022-79928 (04-03-01)
Lewis, Mike	OMAE2022-78758 (08-07-01)
Ley, Jens	OMAE2022-78435 (06-03-01)
Li, Baozhen	OMAE2022-81340 (11-10-02)
Li, Baozhu	OMAE2022-80143 (11-08-01)
Li, Bojun	OMAE2022-79920 (11-10-04); OMAE2022-80060 (11-10-04)
Li, Chenfeng	OMAE2022-81437 (02-16-01)
Li, Chuang	OMAE2022-79642 (06-14-01)
Li, Chuntong	OMAE2022-80032 (06-11-03)
Li, Chunzheng	OMAE2022-80593 (09-01-09)
Li, Dejiang	OMAE2022-78400 (06-11-01); OMAE2022-79871 (06-11-03)
Li, Fang	OMAE2022-79206 (07-03-01); OMAE2022-80106 (07-04-01); OMAE2022-80393 (02-09-03)
Li, Fengxia	OMAE2022-78539 (11-10-01)
Li, Guoyuan	OMAE2022-81075 (02-16-02)
Li, Huazhou	OMAE2022-80010 (11-11-01)
Li, Jianxin	OMAE2022-79828 (08-01-02)
Li, Jin	OMAE2022-80440 (11-06-01); OMAE2022-80506 (11-05-03)
Li, Lin	OMAE2022-78570 (05-02-01); OMAE2022-78823 (05-05-02); OMAE2022-78997 (06-11-01)
Li, Minghao	OMAE2022-80106 (07-04-01)
Li, Minghui	OMAE2022-79920 (11-10-04)

AUTHOR INDEX

Li, Minshi	OMAE2022-80261 (11-01-02)
Li, Na	OMAE2022-80493 (09-01-13)
Li, Qiao	OMAE2022-79503 (05-05-03)
Li, Qingping	OMAE2022-79775 (11-10-04)
Li, Shen	OMAE2022-79566 (02-11-02)
Li, Shihao	OMAE2022-79022 (11-10-03)
Li, Shuai	OMAE2022-81325 (06-03-04)
Li, Xiang	OMAE2022-79016 (08-04-01)
Li, Xiaobin	OMAE2022-79898 (02-09-02)
Li, Xin	OMAE2022-80038 (06-16-03)
Li, Xin	OMAE2022-80493 (09-01-13); OMAE2022-80585 (09-01-05)
Li, Xinyi	OMAE2022-81238 (06-11-03)
Li, Yan	OMAE2022-79462 (06-16-02); OMAE2022-80038 (06-16-03)
Li, Yan	OMAE2022-80596 (06-16-03)
Li, Yanjun	OMAE2022-80748 (11-03-01)
Li, Yihong	OMAE2022-78196 (01-01-01)
Li, Yong	OMAE2022-80143 (11-08-01)
Li, Yuan	OMAE2022-78776 (11-10-03); OMAE2022-79908 (11-10-04); OMAE2022-79920 (11-10-04); OMAE2022-80060 (11-10-04)
Li, Yuzhu	OMAE2022-79099 (06-02-01)
Li, Zaoyuan	OMAE2022-80440 (11-06-01); OMAE2022-80506 (11-05-03)
Li, Zhenhao	OMAE2022-80596 (06-16-03)
Li, Zhenkun	OMAE2022-80261 (11-01-02)
Li, Zhiyuan	OMAE2022-79467 (02-12-02)
Li, Zijian	OMAE2022-79227 (10-01-02)
Lian, Gunnar	OMAE2022-79068 (01-03-01); OMAE2022-79076 (01-03-01); OMAE2022-80945 (02-09-01); OMAE2022-81191 (02-01-01)
Liang, Guodong	OMAE2022-78929 (09-01-08)
Liang, Hui	OMAE2022-79054 (06-05-02)
Liang, Xu	OMAE2022-81290 (09-01-05)
Liao, James	OMAE2022-81477 (06-14-03)
Liao, Kangping	OMAE2022-79515 (09-01-07)
Liao, Yingqian	OMAE2022-81006 (09-03-01)
Liberzon, Dan	OMAE2022-78564 (02-01-01); OMAE2022-78567 (02-02-01)
Licheri, Fabio	OMAE2022-80986 (09-02-05)
Lie, Halvor	OMAE2022-79006 (09-01-10); OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79147 (01-06-01); OMAE2022-79149 (01-02-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Lim, Ho-Joon	OMAE2022-80112 (09-01-03)
Lim, Jong Il	OMAE2022-79765 (03-02-01)
Limi, Morten	OMAE2022-79709 (04-01-01)
Lin, Gan	OMAE2022-79323 (05-05-02)
Lin, Yen-Hao	OMAE2022-86751 (09-01-11)
Lin, Yifan	OMAE2022-79283 (09-01-02)
Lin, Zaibin	OMAE2022-79230 (09-01-07); OMAE2022-79942 (01-01-02)
Linde, Michael	OMAE2022-79613 (01-09-01)
Lindemann, Thomas	OMAE2022-80204 (02-11-02)
Lindgård, Øyvind	OMAE2022-78379 (09-05-01)
Liné, Alain	OMAE2022-80271 (08-07-02)
Lipski, Wacek	OMAE2022-80172 (04-01-05)
Liu, An	OMAE2022-80173 (07-06-01)
Liu, Cong	OMAE2022-80925 (07-02-01)
Liu, Ding Peng	OMAE2022-79353 (05-05-02); OMAE2022-79598 (09-01-14)
Liu, Gang	OMAE2022-79090 (10-02-01)
Liu, Hongrui	OMAE2022-79688 (02-04-02)
Liu, Huaxing	OMAE2022-79903 (12-01-02)
Liu, Jian	OMAE2022-80506 (11-05-03)
Liu, Jianbin	OMAE2022-79022 (11-10-03)

AUTHOR INDEX

Liu, Jing	OMAE2022-80143 (11-08-01)
Liu, Jun	OMAE2022-80775 (10-04-01)
Liu, Kun	OMAE2022-87473 (03-06-01)
Liu, Liwei	OMAE2022-79453 (08-02-01); OMAE2022-79788 (08-01-02); OMAE2022-79795 (08-01-02); OMAE2022-79828 (08-01-02); OMAE2022-81133 (06-08-01)
Liu, Mingyue	OMAE2022-78666 (09-01-08)
Liu, Qingxiang	OMAE2022-78512 (02-01-03); OMAE2022-79652 (02-01-03)
Liu, Shewen	OMAE2022-79642 (06-14-01)
Liu, Shujie	OMAE2022-80748 (11-03-01)
Liu, Shukui	OMAE2022-78937 (06-12-01)
Liu, Song	OMAE2022-79231 (04-02-02)
Liu, Tie-Yan	OMAE2022-78523 (11-11-01)
Liu, Wei	OMAE2022-79271 (11-10-02)
Liu, Yanchi	OMAE2022-78776 (11-10-03)
Liu, Yisi	OMAE2022-80754 (01-08-02)
Liu, Zhenhui	OMAE2022-80657 (04-03-02)
Lockett, Timothy	OMAE2022-79277 (08-07-01)
Løken, Andreas	OMAE2022-87376 (02-05-01); OMAE2022-87377 (02-05-01)
London, Tyler	OMAE2022-78559 (03-01-01)
Long, Xin	OMAE2022-79772 (08-04-02); OMAE2022-81133 (06-08-01)
Long, Yang	OMAE2022-80261 (11-01-02); OMAE2022-80748 (11-03-01)
Longva, Vegard	OMAE2022-79216 (04-03-01); OMAE2022-79928 (04-03-01)
Lopez-Pavon, Carlos	OMAE2022-80071 (09-01-09)
Lou, Jing	OMAE2022-81256 (08-04-03)
Lou, Yuankeli	OMAE2022-80143 (11-08-01)
Loubeyre, Sebastien	OMAE2022-78981 (08-01-01); OMAE2022-79114 (09-03-02); OMAE2022-79152 (01-06-01)
Loukas, Konstantinos	OMAE2022-80962 (04-01-05)
Lourenço De Souza, Marcelo Igor	OMAE2022-79165 (03-05-01)
Low, Ying Min	OMAE2022-78405 (02-06-01); OMAE2022-78640 (02-06-01)
Lu, Chao	OMAE2022-78951 (08-04-02)
Lu, Gang	OMAE2022-81427 (02-16-02)
Lu, Haoxin	OMAE2022-81113 (11-05-04)
Lu, Liangliang	OMAE2022-81327 (07-09-01)
Lu, Xin	OMAE2022-81236 (08-03-01)
Lu, Yu	OMAE2022-79642 (06-14-01)
Lu, Zou	OMAE2022-78547 (08-01-02); OMAE2022-78558 (07-04-01)
Lubis, Michael Binsar	OMAE2022-79356 (06-08-01)
Lucas, Jorge	OMAE2022-78435 (06-03-01)
Ludvigsen, Halgeir	OMAE2022-79149 (01-02-01)
Lumley, Pete	OMAE2022-80089 (11-01-02)
Lund, Bjornar	OMAE2022-78266 (11-02-01); OMAE2022-78532 (11-02-01); OMAE2022-78830 (11-02-02); OMAE2022-79937 (11-05-02)
Lund, Fredrik	OMAE2022-79513 (04-04-01)
Lund, Jorrid	OMAE2022-80507 (08-04-01)
Lunde, Knud	OMAE2022-78693 (08-07-01)
Luo, Rui	OMAE2022-79453 (08-02-01)
Luo, Xiaomeng	OMAE2022-80032 (06-11-03)
Lv, Jianjun	OMAE2022-80032 (06-11-03)
Lyngvær, Bernt Karsten	OMAE2022-78986 (06-03-02); OMAE2022-79673 (06-03-03)
Lyu, Chaohui	OMAE2022-79775 (11-10-04)
Lyu, Xin	OMAE2022-79775 (11-10-04)

M

Ma, Bowen	OMAE2022-78236 (08-06-02)
Ma, Chengqian	OMAE2022-79532 (06-12-02)
Ma, Chong	OMAE2022-78638 (02-12-02)
Ma, Hongyang	OMAE2022-78671 (02-11-01)
Ma, Kai-tung	OMAE2022-86751 (09-01-11)

AUTHOR INDEX

Ma, Ning	OMAE2022-79532 (06-12-02)
Ma, Qisheng	OMAE2022-79074 (11-10-03)
Ma, Yucong	OMAE2022-78146 (06-14-01); OMAE2022-79485 (06-01-01)
Ma, Zhihua	OMAE2022-79230 (09-01-07)
Macchion, Olivier	OMAE2022-78758 (08-07-01)
Machida, Kaho	OMAE2022-80883 (09-01-07)
Mackay, Edward	OMAE2022-79348 (09-03-01)
Macke, Michael	OMAE2022-81441 (02-04-01)
Mackinnon, Pauline	OMAE2022-79732 (09-04-01)
Maeda, Teruo	OMAE2022-79503 (05-05-03)
Maekawa, Koichi	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Mafazy, Salum	OMAE2022-81556 (11-01-02)
Magee, Allan	OMAE2022-78850 (01-01-01); OMAE2022-79054 (06-05-02); OMAE2022-80042 (12-03-01); OMAE2022-80816 (06-05-04)
Magnussen, Eivind Tørset	OMAE2022-81441 (02-04-01)
Mahajan, Puneet	OMAE2022-79302 (09-01-14)
Mahmoud, Omar	OMAE2022-80569 (11-04-03); OMAE2022-80570 (11-04-03); OMAE2022-81524 (11-04-03)
Mahmud, Shahriar	OMAE2022-78721 (11-03-02)
Maillot, Elise	OMAE2022-79124 (09-01-04)
Majewski, Dawid	OMAE2022-78537 (10-01-01); OMAE2022-79821 (10-01-01)
Mak, Bart	OMAE2022-79126 (06-07-01)
Maki, Kevin	OMAE2022-79139 (06-05-02)
Malara, Giovanni	OMAE2022-81138 (09-02-05)
Malefaki, Iro	OMAE2022-79699 (06-15-01)
Mallela, Mounika	OMAE2022-80930 (09-01-03)
Malta, Edgard Borges	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Manikonda, Kaushik	OMAE2022-79570 (11-03-01)
Mansour, Ghiath (Guy)	OMAE2022-78905 (04-02-01)
Manuel, Lance	OMAE2022-79353 (05-05-02); OMAE2022-79598 (09-01-14); OMAE2022-79607 (08-01-01)
Maréchal, Benjamin	OMAE2022-79155 (09-01-04)
Mariani, Alessio	OMAE2022-78017 (04-01-01)
Marino Moreno, Felipe	OMAE2022-78608 (06-07-01)
Marley, Mathias	OMAE2022-82707 (09-02-06)
Maroju, Soma	OMAE2022-80547 (01-08-01); OMAE2022-86835 (06-07-02)
Martín-San-Román, Raquel	OMAE2022-79827 (09-01-13)
Martin, Tobias	OMAE2022-79036 (06-05-01); OMAE2022-81080 (08-05-01)
Martínez-Estévez, Iván	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Martinez, Michaël	OMAE2022-79102 (03-02-01)
Martins, Joaquim R. R. A.	OMAE2022-81006 (09-03-01)
Martins, Marcelo Ramos	OMAE2022-78612 (02-14-01); OMAE2022-79179 (02-14-01); OMAE2022-79316 (02-14-01)
Martinsen, Vegard	OMAE2022-81117 (04-02-02)
Masanobu, Sotaro	OMAE2022-78330 (05-03-01); OMAE2022-79597 (05-03-01); OMAE2022-79601 (05-03-01); OMAE2022-79783 (06-13-01)
Masuda, Koichi	OMAE2022-79153 (05-05-02)
Masuda, Mitsuhiro	OMAE2022-79338 (05-06-01)
Matsui, Sadaoki	OMAE2022-79056 (02-09-01)
Matsumoto, Yosuke	OMAE2022-80883 (09-01-07)
Matsuoka, Ryo	OMAE2022-79432 (09-01-13)
Mattiazzo, Giuliana	OMAE2022-81267 (09-02-06); OMAE2022-81361 (09-02-03); OMAE2022-81447 (09-02-04); OMAE2022-81464 (09-02-02)
Maturana, Marcos Coelho	OMAE2022-78612 (02-14-01); OMAE2022-79316 (02-14-01)
Matusiak, Jerzy	OMAE2022-79702 (06-05-03)
May, Roland	OMAE2022-78394 (11-02-01)
Mayorga, Pedro	OMAE2022-79248 (09-01-10)
Mccauley, Guy	OMAE2022-81242 (06-03-04)
Mccay, Katie	OMAE2022-78379 (09-05-01)
Mconochie, Jason	OMAE2022-79924 (01-01-01)
Mcgaughy, Tom	OMAE2022-78918 (03-01-01)

AUTHOR INDEX

McGeorge, Dag	OMAE2022-81326 (04-01-04)
Mcmorris, Jason	OMAE2022-78191 (09-02-03)
Meijer, Jawk	OMAE2022-79057 (03-05-01)
Mekha, Basim	OMAE2022-83455 (04-02-01)
Melling, Gregor	OMAE2022-81080 (08-05-01)
Mendes De Sousa, José Renato	OMAE2022-78325 (04-01-02)
Mendes, Paulo	OMAE2022-79598 (09-01-14)
Meng, Fanhua	OMAE2022-80261 (11-01-02)
Meng, Xun	OMAE2022-78400 (06-11-01); OMAE2022-79871 (06-11-03)
Mengmeng, Zhang	OMAE2022-81293 (04-01-03)
Mérigaud, Alexis	OMAE2022-81067 (01-08-02)
Merino Hoyos, Daniel	OMAE2022-81441 (02-04-01)
Merz, Karl	OMAE2022-78929 (09-01-08)
Mesa, Carlos Molina	OMAE2022-79329 (10-04-01)
Mesa, Jose	OMAE2022-87489 (08-07-02)
Messeri, Gianni	OMAE2022-78661 (02-01-02)
Metrikine, Andrei	OMAE2022-79674 (09-02-01)
Meucci, Alberto	OMAE2022-78610 (06-07-01); OMAE2022-79587 (02-01-02)
Meyer, Jannik	OMAE2022-80510 (08-03-01)
Miao, Qingqing	OMAE2022-78640 (02-06-01)
Middleditch, Ben	OMAE2022-80926 (09-01-03)
Miedema, Sape	OMAE2022-79119 (09-02-02)
Mierczyński, Jacek	OMAE2022-78537 (10-01-01)
Miguez, Diego	OMAE2022-81143 (06-16-03)
Mihai, Rodica	OMAE2022-78339 (11-01-01)
Miki, Koki	OMAE2022-78999 (05-05-03)
Mikkola, Tommi	OMAE2022-79702 (06-05-03); OMAE2022-80393 (02-09-03)
Miller, Lakshmi	OMAE2022-80537 (06-14-03)
Milne, Ian	OMAE2022-78017 (04-01-01); OMAE2022-79449 (01-05-01); OMAE2022-81245 (09-01-09); OMAE2022-81298 (12-03-01)
Ming, Zou	OMAE2022-78558 (07-04-01)
Minguez, Matthieu	OMAE2022-80271 (08-07-02)
Miranda Sandoval, Beatriz Karol	OMAE2022-79278 (06-16-02)
Mishael, Jose	OMAE2022-78269 (02-14-01)
Mitshita, Rodrigo	OMAE2022-78935 (11-02-02); OMAE2022-79290 (11-07-01)
Mizuno, Katsunori	OMAE2022-78999 (05-05-03)
Mizzi, Simon	OMAE2022-86100 (08-07-02)
Moan, Torgeir	OMAE2022-81325 (06-03-04)
Mochizuki, Akito	OMAE2022-79503 (05-05-03)
Moe Føre, Heidi	OMAE2022-78924 (05-02-01)
Moghtadaei, Abdolmajid	OMAE2022-79732 (09-04-01)
Mohammadi, Mohammad Reza Shah	OMAE2022-81503 (08-07-02)
Mohammadreza, Kamali	OMAE2022-78634 (11-05-04)
Mohr, William	OMAE2022-78918 (03-01-01)
Moir, Stuart	OMAE2022-81210 (09-03-01)
Moldestad, Lasse	OMAE2022-81078 (04-02-01)
Mols, Frank	OMAE2022-80422 (09-05-01)
Molven, Håkon	OMAE2022-81117 (04-02-02)
Montalvo, Sébastien	OMAE2022-79102 (03-02-01)
Mood, Fredrik	OMAE2022-79066 (06-05-02)
Moon, Won Ki	OMAE2022-79765 (03-02-01)
Moradiani, Amir	OMAE2022-79192 (03-06-01)
Morais, Carlos Henrique Bittencourt	OMAE2022-78612 (02-14-01)
Morand, Loic	OMAE2022-79208 (08-01-01)
Morato, Pablo G.	OMAE2022-78269 (02-14-01)
Moreau, Suzanne	OMAE2022-79124 (09-01-04)
Moreu, Jaime	OMAE2022-81065 (09-01-12)
Mori, Takayuki	OMAE2022-79760 (06-14-02); OMAE2022-79762 (06-14-02)

AUTHOR INDEX

Morita, Mayo	OMAE2022-78175 (05-05-01)
Morooka, Celso K.	OMAE2022-79985 (11-08-01)
Mortensen, Simon	OMAE2022-79613 (01-09-01)
Mosgren, Idun Runde	OMAE2022-78802 (11-12-01)
Mota, Daniel Dos Santos	OMAE2022-80645 (11-12-02)
Moura, Fernanda M.	OMAE2022-78612 (02-14-01)
Moutinho Dos Santos, Edmilson	OMAE2022-80003 (11-12-02)
Mouton, Luc	OMAE2022-79079 (01-01-01)
Moverley Smith, Ben	OMAE2022-80926 (09-01-03)
Mucha, Philipp	OMAE2022-80796 (08-05-02)
Muff, Anthony	OMAE2022-81380 (04-02-02)
Mühmer, Markus	OMAE2022-80204 (02-11-02)
Muis Alie, Muhammad Zubair	OMAE2022-79120 (02-11-01)
Müller, Franziska	OMAE2022-79698 (09-01-04)
Munbua, Wichuda	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Murai, Motohiko	OMAE2022-78521 (05-05-01)
Murai, Yuichi	OMAE2022-79597 (05-03-01)
Murphy, Adrian	OMAE2022-79407 (09-01-02)
Murphy, Thomas B.	OMAE2022-79817 (01-08-02)
Musharraf, Mashrura	OMAE2022-80904 (07-02-01); OMAE2022-80925 (07-02-01)
Mustafa, Wahyuddin	OMAE2022-79120 (02-11-01)
Musto, Anthony	OMAE2022-80539 (10-03-02); OMAE2022-81036 (10-03-02)
Myland, Daniela	OMAE2022-78885 (07-04-01)

N

Naciri, Mamoun	OMAE2022-79239 (08-03-01); OMAE2022-79591 (01-02-01)
Nadim, Farrokh	OMAE2022-80164 (10-01-02)
Naguib, Ahmed	OMAE2022-81524 (11-04-03)
Nakajima, Toshio	OMAE2022-80564 (01-01-02)
Nakajima, Yasuharu	OMAE2022-80247 (05-03-01)
Nakamura, Shuichi	OMAE2022-81027 (05-06-01)
Nan, Fan-Hua	OMAE2022-79431 (05-02-02)
Naseri, Masoud	OMAE2022-79919 (06-04-02)
Nawaz Ahmad, Usman	OMAE2022-79448 (06-14-01)
Neary, Vincent	OMAE2022-80731 (09-02-02)
Negi, Amresh	OMAE2022-79654 (01-07-01)
Neogi, Ishan	OMAE2022-81308 (06-14-03)
Nerheim, Ann Rigmor	OMAE2022-81106 (05-02-02)
Nestor, Ruairi	OMAE2022-79008 (04-01-03)
Netto, Theodoro	OMAE2022-79757 (11-13-01); OMAE2022-85000 (04-02-03)
Neufeldt, Henrik	OMAE2022-80510 (08-03-01)
Newsam, David	OMAE2022-79855 (09-01-08)
Ng, Sok Mooi	OMAE2022-81373 (01-01-02)
Ng, Yong Thiang	OMAE2022-80754 (01-08-02)
Nguyen, Nhu	OMAE2022-81518 (09-02-06)
Nguyen, Tan	OMAE2022-80974 (11-06-01); OMAE2022-81041 (11-06-01)
Ni, Weida	OMAE2022-80173 (07-06-01)
Nickerson, Brendon	OMAE2022-78787 (07-07-01)
Nicolaos Simos, Alexandre	OMAE2022-80344 (09-01-12)
Nicolas, Erwann	OMAE2022-79114 (09-03-02)
Niemunis, Andrzej	OMAE2022-79696 (10-01-02)
Nihei, Yasunori	OMAE2022-78933 (05-02-01)
Niki, Ryosuke	OMAE2022-80042 (12-03-01)
Nikmanesh, Melisa Begüm	OMAE2022-79867 (08-04-02)
Niral Shah, Vardhan	OMAE2022-81308 (06-14-03)
Nishizawa, Keita	OMAE2022-80042 (12-03-01)
Nittouji, Michio	OMAE2022-80883 (09-01-07)
Niu, Zhibo	OMAE2022-79804 (08-06-01)

AUTHOR INDEX

Njaka, Taylor	OMAE2022-80537 (06-14-03)
Noble, Stuart	OMAE2022-80172 (04-01-05)
Nord, Torodd Skjerve	OMAE2022-81075 (02-16-02)
Norland, Kristian	OMAE2022-78959 (04-01-03)
Norman, Rose	OMAE2022-79891 (06-14-02)
Nour, Muhammad	OMAE2022-80569 (11-04-03); OMAE2022-80570 (11-04-03)
Novgorodcev, Andre	OMAE2022-80422 (09-05-01)
Ntouni, Katerina	OMAE2022-79308 (03-05-01)
Nubli, Haris	OMAE2022-78729 (02-13-01)
Nuernberg, Martin	OMAE2022-79109 (09-01-02)
Nybø, Synne	OMAE2022-81467 (09-01-10)
Nygård, Bjørn	OMAE2022-78952 (02-10-02)

O

Obi, Chinemerem	OMAE2022-79570 (11-03-01)
Oddy, Carolyn	OMAE2022-79308 (03-05-01)
Ødegård, Anders	OMAE2022-78379 (09-05-01)
Øiseth, Ole	OMAE2022-80114 (02-09-03)
Okamoto, Akihiro	OMAE2022-78370 (05-04-01)
Okkenhaug, Siril	OMAE2022-81441 (02-04-01); OMAE2022-81463 (02-06-02); OMAE2022-81465 (02-06-02)
Økland, Ole David	OMAE2022-79068 (01-03-01); OMAE2022-79076 (01-03-01)
Okpeke, Bright Ebikemefa	OMAE2022-80204 (02-11-02)
Ole, Øiseth	OMAE2022-78644 (01-03-01)
Olimb, Idunn	OMAE2022-78986 (06-03-02); OMAE2022-79673 (06-03-03)
Oliveira, Felipe	OMAE2022-81505 (01-08-02)
Oliveira, Mauro	OMAE2022-79098 (02-06-02)
Oma, Narve	OMAE2022-81289 (03-03-01)
Ommani, Babak	OMAE2022-78986 (06-03-02); OMAE2022-79167 (05-05-03); OMAE2022-79673 (06-03-03); OMAE2022-81461 (01-07-01)
Omran, Mohamed	OMAE2022-78535 (11-12-01)
Omura, Atsuo	OMAE2022-79783 (06-13-01)
On, Thinh	OMAE2022-80974 (11-06-01); OMAE2022-81041 (11-06-01)
Ong, Muk Chen	OMAE2022-78378 (08-06-02); OMAE2022-78570 (05-02-01); OMAE2022-78877 (09-01-11); OMAE2022-78925 (06-05-01); OMAE2022-78997 (06-11-01); OMAE2022-79483 (09-01-13); OMAE2022-80071 (09-01-09); OMAE2022-80758 (01-05-01); OMAE2022-80933 (09-01-03)
Ono, Masao	OMAE2022-79601 (05-03-01); OMAE2022-80247 (05-03-01)
Onorato, Miguel	OMAE2022-78334 (12-02-01); OMAE2022-78661 (02-01-02)
Ooi, Chin Chun	OMAE2022-81237 (08-04-04)
Oouchi, Kazuyoshi	OMAE2022-80883 (09-01-07)
Opedal, Nils	OMAE2022-78266 (11-02-01)
Oppelt, Joachim	OMAE2022-79543 (11-04-02)
Orlowski, Rene Thiago Capelari	OMAE2022-78612 (02-14-01); OMAE2022-79179 (02-14-01)
Orre, Steinar	OMAE2022-78693 (08-07-01); OMAE2022-78758 (08-07-01); OMAE2022-78833 (08-07-01)
Orszaghova, Jana	OMAE2022-80885 (09-02-01)
Osawa, Hiroyuki	OMAE2022-78370 (05-04-01)
Osawa, Naoki	OMAE2022-78529 (02-04-02)
Osborne, Alfred	OMAE2022-81191 (02-01-01)
Otsubo, Kazuhisa	OMAE2022-80247 (05-03-01)
Otto, Christoph	OMAE2022-80516 (06-13-01)
Owen, Cody	OMAE2022-78507 (07-05-01); OMAE2022-78972 (07-01-01)
Ozbayoglu, Evren	OMAE2022-78739 (11-04-01); OMAE2022-79623 (11-04-02)
Ozbayoglu, Murat	OMAE2022-79623 (11-04-02)

P

P P, Vijith	OMAE2022-78474 (06-12-01)
Paalvast, Mark	OMAE2022-79459 (04-01-01)
Paboeuf, Stéphane	OMAE2022-79079 (01-01-01); OMAE2022-79114 (09-03-02); OMAE2022-79308 (03-05-01)

AUTHOR INDEX

Pacis, Felix James	OMAE2022-79046 (11-04-01)
Pacuraru, Florin	OMAE2022-81100 (12-01-02)
Paduano, Bruno	OMAE2022-81361 (09-02-03)
Pais, Tatiana	OMAE2022-80387 (02-12-01)
Pakozdi, Csaba	OMAE2022-79010 (06-16-01); OMAE2022-79036 (06-05-01); OMAE2022-79052 (12-01-01); OMAE2022-79152 (01-06-01)
Pakrashi, Vikram	OMAE2022-79865 (06-16-02)
Palagas, Christos	OMAE2022-79129 (04-03-01)
Palma Silva, Jéssica	OMAE2022-79985 (11-08-01)
Pan, Zhiyuan	OMAE2022-81325 (06-03-04)
Panchi, Nabil	OMAE2022-79051 (07-02-01)
Pang, Zhengyang	OMAE2022-78799 (06-05-01)
Papanikolaou, Apostolos	OMAE2022-78937 (06-12-01)
Papini, Guglielmo	OMAE2022-81361 (09-02-03)
Park, Myong jin	OMAE2022-80627 (02-02-01)
Park, Sewan	OMAE2022-87901 (01-06-01)
Park, Soung Woo	OMAE2022-81305 (02-09-02)
Parsa, Kourosh	OMAE2022-81155 (09-02-03)
Parviainen, Tuuli	OMAE2022-80767 (07-09-01)
Pasqualino, Ilson	OMAE2022-79165 (03-05-01)
Passano, Elizabeth	OMAE2022-79006 (09-01-10); OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Pasta, Edoardo	OMAE2022-81464 (09-02-02)
Pavlov, Alexey	OMAE2022-80314 (11-13-01)
Paz, Carlos	OMAE2022-79543 (11-04-02)
Pearl, William	OMAE2022-79292 (04-03-02)
Pedersen, Tommy	OMAE2022-78959 (04-01-03)
Pedrosa, Camilo	OMAE2022-78266 (11-02-01); OMAE2022-78830 (11-02-02)
Peiffer, Antoine	OMAE2022-81555 (09-01-11)
Pelipenko, Sviatoslav	OMAE2022-81120 (11-05-04)
Pepper, Ben	OMAE2022-81143 (06-16-03)
Perassi, Federica	OMAE2022-80276 (09-03-02)
Pereboom, Hajo	OMAE2022-78833 (08-07-01)
Perera, Lokukaluge	OMAE2022-78775 (06-04-01); OMAE2022-79031 (06-01-01); OMAE2022-79488 (06-04-01); OMAE2022-79490 (06-04-01); OMAE2022-79583 (06-04-02)
Peric, Milovan	OMAE2022-79152 (01-06-01)
Perim, Julia	OMAE2022-78926 (06-03-02)
Periyal, Arun	OMAE2022-80601 (04-01-01)
Perrut, Valber	OMAE2022-79165 (03-05-01)
Petersen, Johnny	OMAE2022-79700 (11-03-01)
Pétrié, François	OMAE2022-78985 (09-01-12)
Pettas, Dionisis	OMAE2022-80962 (04-01-05)
Pettersen, Bjørnar	OMAE2022-79469 (08-06-02)
Peyrard, Christophe	OMAE2022-78673 (09-01-10); OMAE2022-79016 (08-04-01)
Pham, Yannick	OMAE2022-79108 (08-05-02)
Phelut, Renaud	OMAE2022-81285 (04-01-04)
Pick, Marc-André	OMAE2022-78601 (12-03-01)
Picksley, John	OMAE2022-79008 (04-01-03)
Piehl, Henry Peter	OMAE2022-81106 (05-02-02)
Piercey, Caitlin	OMAE2022-79514 (07-09-01)
Pillai, Ajit	OMAE2022-79248 (09-01-10); OMAE2022-79897 (09-02-01)
Pineau, Jean-Philippe	OMAE2022-80209 (02-10-01)
Pöcher, Per Kristian	OMAE2022-81117 (04-02-02)
Podrazka, Olga	OMAE2022-80274 (06-02-02)
Podskarbi, Mat	OMAE2022-82026 (01-08-01)
Polinder, Henk	OMAE2022-79119 (09-02-02)
Polojärvi, Arttu	OMAE2022-78507 (07-05-01); OMAE2022-80767 (07-09-01); OMAE2022-81054 (07-03-01)
Polymenis, Ioannis	OMAE2022-79891 (06-14-02)

AUTHOR INDEX

Ponnambathayil, Jassim Abubacker	OMAE2022-79074 (11-10-03)
Power, Jonathan	OMAE2022-78097 (07-02-01); OMAE2022-79514 (07-09-01)
Prasad Perera, Lokukaluge	OMAE2022-78774 (06-04-01)
Premasiri, Maneesha N.	OMAE2022-79490 (06-04-01)
Premraj, Prajit	OMAE2022-79227 (10-01-02)
Provasi, Rodrigo	OMAE2022-78599 (04-01-03)
Pu, Yongchang	OMAE2022-79044 (04-02-03); OMAE2022-79084 (04-02-03)
Puddu, Pierpaolo	OMAE2022-80986 (09-02-05)
Puolakka, Otto	OMAE2022-78507 (07-05-01); OMAE2022-79206 (07-03-01)
Pupo Pesce, Celso	OMAE2022-79419 (04-01-02)
Purwandari, Sartika Dwi	OMAE2022-78532 (11-02-01)

Q

Qi, Chuangchuang	OMAE2022-79074 (11-10-03)
Qi, Xinhai	OMAE2022-79292 (04-03-02)
Qian, Ling	OMAE2022-79230 (09-01-07); OMAE2022-79942 (01-01-02)
Qin, Yan	OMAE2022-79779 (08-02-01)
Qingchun, Zhu	OMAE2022-80212 (02-04-01)
Qu, Jia	OMAE2022-79142 (02-10-02)
Qwist, Jesper Roland Kjærgaard	OMAE2022-80255 (08-05-02)

R

R S, Bhavithra	OMAE2022-79092 (02-01-03)
Rabbani, Aneesa Ijaz	OMAE2022-79074 (11-10-03)
Radhakrishnan, Gowtham	OMAE2022-78912 (02-16-02); OMAE2022-81304 (07-03-01)
Radtke, Lars	OMAE2022-80507 (08-04-01)
Ragupathy, Pasupathy	OMAE2022-79862 (04-03-01)
Rahman, Md Motiur	OMAE2022-79074 (11-10-03)
Rahman, Mohammad Azizur	OMAE2022-79540 (11-03-02); OMAE2022-79570 (11-03-01)
Rajaobelina, Jery	OMAE2022-79924 (01-01-01)
Rajendran, Suresh	OMAE2022-78474 (06-12-01)
Raka, Yash	OMAE2022-78379 (09-05-01)
Rakotonirina, Andriarimina	OMAE2022-79108 (08-05-02)
Ramana Murthy, M V	OMAE2022-80930 (09-01-03)
Ramne, Bengt	OMAE2022-79867 (08-04-02)
Ramos Alvarez, Nain Maximo	OMAE2022-79278 (06-16-02)
Ramos Quiñonez, Saida Milagros	OMAE2022-79278 (06-16-02)
Ramzanpoor, Iman	OMAE2022-79109 (09-01-02)
Rana, Yashpal	OMAE2022-78590 (04-02-02); OMAE2022-80480 (04-02-03)
Randoux, Stephane	OMAE2022-78334 (12-02-01)
Rapizo, Henrique	OMAE2022-78512 (02-01-03)
Rasoulinia, Mehdi	OMAE2022-79192 (03-06-01)
Ratnayake, Chandana	OMAE2022-81074 (11-07-01)
Ratnayake, R.M. Chandima	OMAE2022-79192 (03-06-01)
Rautmann, Louis Leon	OMAE2022-79026 (06-11-02)
Ravinthrakumar, Senthuran	OMAE2022-78986 (06-03-02); OMAE2022-79673 (06-03-03)
Reinås, Lorents	OMAE2022-81078 (04-02-01); OMAE2022-81122 (02-03-01); OMAE2022-81380 (04-02-02)
Reiner, Carl	OMAE2022-78713 (06-12-01)
Reinholdtsen, Svein-Arne	OMAE2022-79649 (01-02-01)
Remmerswaal, Ronald	OMAE2022-81105 (08-05-02)
Ren, Haojie	OMAE2022-79804 (08-06-01)
Ren, Hongda	OMAE2022-78776 (11-10-03); OMAE2022-80060 (11-10-04)
Ren, Hui	OMAE2022-79747 (11-04-02)
Ren, Huilong	OMAE2022-81427 (02-16-02); OMAE2022-81437 (02-16-01)
Ren, Xiudi	OMAE2022-79109 (09-01-02)
Renac, Laury	OMAE2022-80274 (06-02-02)
Renteria, Alondra	OMAE2022-78621 (11-05-01); OMAE2022-79753 (11-05-02)

AUTHOR INDEX

Rentschler, Manuel	OMAE2022-80578 (09-02-04)
Rentzow, Erik	OMAE2022-78583 (06-05-01)
Resvanis, Themistocles L	OMAE2022-79509 (08-06-02)
Rezende, Filipe	OMAE2022-78408 (02-06-02)
Rheem, Chang-Kyu	OMAE2022-79452 (05-04-01)
Ribeiro e Silva, Sergio	OMAE2022-79530 (12-01-02)
Ribeiro, Bessie	OMAE2022-79757 (11-13-01)
Ribeiro, Rodrigo	OMAE2022-79165 (03-05-01)
Richa, Luan	OMAE2022-80858 (11-03-02)
Richert, Ranko	OMAE2022-79049 (06-11-02)
Richmond, Mark	OMAE2022-79773 (02-12-02)
Rigo, Philippe	OMAE2022-78269 (02-14-01)
Ringsberg, Jonas W.	OMAE2022-79467 (02-12-02); OMAE2022-79867 (08-04-02)
Ringwood, John V.	OMAE2022-80990 (09-02-05); OMAE2022-81267 (09-02-06)
Rippol, Thierry	OMAE2022-80271 (08-07-02)
Ritz, Sebastian	OMAE2022-78583 (06-05-01)
Riverola Calavia, Javier	OMAE2022-79459 (04-01-01)
Riyadi, Seogeng	OMAE2022-80182 (06-01-01)
Roberts, Graeme	OMAE2022-79862 (04-03-01)
Robinson, Tim	OMAE2022-78423 (11-04-02)
Rocky, Taylor	OMAE2022-80767 (07-09-01)
Rodolfo, Goncalves	OMAE2022-78808 (09-01-04); OMAE2022-78816 (09-01-11)
Rodrigues, Jose Miguel	OMAE2022-81467 (09-01-10)
Rodrigues, Thiago	OMAE2022-78468 (02-06-01)
Rodríguez Castillo, Claudio Alexis	OMAE2022-79063 (06-03-02)
Rodríguez-Luis, Alvaro	OMAE2022-79834 (09-01-12)
Rodríguez, Elena	OMAE2022-80919 (01-02-01)
Rodríguez, Fernancelys	OMAE2022-79250 (11-10-02)
Rognebakke, Olav	OMAE2022-81275 (02-04-01)
Rohmer, Jeremy	OMAE2022-79888 (06-07-02)
Rokvam, Sondre Ø.	OMAE2022-80646 (06-04-02)
Rolfes, Raimund	OMAE2022-79698 (09-01-04)
Rølvåg, Terje	OMAE2022-85896 (02-16-01)
Romar Borzacchiello, Guilherme	OMAE2022-80511 (02-07-01)
Römhild, Wiebke	OMAE2022-78413 (12-01-01)
Romolo, Alessandra	OMAE2022-79148 (02-09-01); OMAE2022-81323 (02-01-02)
Ronge, Elie	OMAE2022-78673 (09-01-10)
Rongère, François	OMAE2022-79155 (09-01-04); OMAE2022-80174 (06-05-03)
Rosen, Jordan	OMAE2022-79274 (02-03-01)
Rossi, André Luis Debiasio	OMAE2022-78612 (02-14-01)
Rossiter, John Anthony	OMAE2022-80972 (09-02-05)
Rouis, Lamia	OMAE2022-79074 (11-10-03)
Rousse, Benjamin	OMAE2022-78985 (09-01-12)
Roy, Alan	OMAE2022-79862 (04-03-01)
Rusche, Henrik	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01)
Russell, Philipp	OMAE2022-78413 (12-01-01)

S

S A, Sannasiraj	OMAE2022-79092 (02-01-03)
Saasen, Arild	OMAE2022-78266 (11-02-01); OMAE2022-78376 (11-07-01); OMAE2022-78634 (11-05-04); OMAE2022-78830 (11-02-02); OMAE2022-78994 (11-05-01); OMAE2022-79501 (11-02-03); OMAE2022-79502 (11-02-03); OMAE2022-79937 (11-05-02)
Saavedra Jerez, Luis	OMAE2022-78451 (11-01-01)
Sadman Sakib, Mohammad	OMAE2022-79137 (09-01-06)
Saeidtehrani, Saghy	OMAE2022-79674 (09-02-01); OMAE2022-79869 (09-02-02)
Sætre, Stian	OMAE2022-81078 (04-02-01)
Sævik, Svein	OMAE2022-78912 (02-16-02); OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01); OMAE2022-79928 (04-03-01)

AUTHOR INDEX

Safran, Ali	OMAE2022-80939 (11-05-03)
Sagar, Hemant	OMAE2022-78536 (06-03-01)
Sager, Thore	OMAE2022-81151 (10-01-02)
Sagrilo, Luis	OMAE2022-78408 (02-06-02); OMAE2022-78468 (02-06-01); OMAE2022-79098 (02-06-02)
Saha, Nilanjan	OMAE2022-80590 (07-05-01); OMAE2022-80930 (09-01-03)
Sainte-Rose, Bruno	OMAE2022-79108 (08-05-02)
Saito, Shota	OMAE2022-80248 (06-12-02)
Sakamoto, Sho	OMAE2022-78521 (05-05-01)
Salahshour, Soheil	OMAE2022-80933 (09-01-03)
Salazar Loor, Lisette Priscilla	OMAE2022-79672 (02-10-01)
Sales Junior, Joel	OMAE2022-78926 (06-03-02)
Sales, Leonardo	OMAE2022-78647 (11-13-01)
Samuelsen, Eirik Mikal	OMAE2022-79919 (06-04-02)
Sanchez-Acevedo, Santiago	OMAE2022-80645 (11-12-02)
Sander, Aljoscha	OMAE2022-79081 (09-01-01); OMAE2022-79203 (09-01-02)
Sando, Kosuke	OMAE2022-79888 (06-07-02)
Sangesland, Sigbjørn	OMAE2022-80149 (05-03-01); OMAE2022-80637 (11-08-01)
Sano, Ryoya	OMAE2022-80248 (06-12-02)
Sant, Tonio	OMAE2022-78138 (09-05-01); OMAE2022-86100 (08-07-02)
Sant, Tonio	OMAE2022-79073 (09-05-01)
Santo, Harrif	OMAE2022-78850 (01-01-01)
Santos, Caio C. P.	OMAE2022-79419 (04-01-02)
Santos, Stephane Santana De Miranda	OMAE2022-79179 (02-14-01)
Saqab, Mudasar	OMAE2022-80164 (10-01-02)
Sarichloo, Zohreh	OMAE2022-79407 (09-01-02)
Sarmadi, Parisa	OMAE2022-78935 (11-02-02); OMAE2022-79290 (11-07-01); OMAE2022-80561 (11-05-03)
Sarmah, Nabin	OMAE2022-79732 (09-04-01)
Sarzosa Burgos, Diego	OMAE2022-79419 (04-01-02)
Sasano, Masahiko	OMAE2022-78370 (05-04-01); OMAE2022-78745 (05-04-01)
Sato, Takumi	OMAE2022-78370 (05-04-01); OMAE2022-78745 (05-04-01)
Sato, Toru	OMAE2022-78523 (11-11-01)
Savioli, Rafael G.	OMAE2022-79419 (04-01-02)
Schacht, Stephan	OMAE2022-79854 (06-11-01)
Scharnke, Jule	OMAE2022-78434 (12-01-02); OMAE2022-79045 (08-05-01); OMAE2022-79053 (02-02-01)
Schellin, Thomas Erling	OMAE2022-78835 (12-01-01); OMAE2022-79571 (12-01-01)
Schiaveto Neto, Luiz André	OMAE2022-79603 (06-02-02)
Schimmels, Stefan	OMAE2022-79821 (10-01-01)
Schjøberg, Ingrid	OMAE2022-79725 (06-11-02); OMAE2022-79913 (06-11-03)
Schläppy, Marie-Lise	OMAE2022-80172 (04-01-05)
Schleder, Adriana Miralles	OMAE2022-78612 (02-14-01); OMAE2022-79179 (02-14-01); OMAE2022-79316 (02-14-01)
Schnepf, Anja	OMAE2022-80071 (09-01-09)
Scholcz, Thomas	OMAE2022-79126 (06-07-01)
Schonlau, Thomas	OMAE2022-79057 (03-05-01)
Schouten, D.R.	OMAE2022-79208 (08-01-01)
Schøyen, Halvor	OMAE2022-79488 (06-04-01)
Schumann, Heiner	OMAE2022-79513 (04-04-01)
Schütt, Clemens	OMAE2022-80516 (06-13-01)
Scialò, Andrea	OMAE2022-81138 (09-02-05)
Seabra, Pedro	OMAE2022-79098 (02-06-02)
Sebastian, Abhilash	OMAE2022-78590 (04-02-02); OMAE2022-80480 (04-02-03)
Seidel, Marc	OMAE2022-78764 (07-01-01)
Seifried, Robert	OMAE2022-78601 (12-03-01)
Sen, Debabrata	OMAE2022-79654 (01-07-01)
Seo, Jung Kwan	OMAE2022-81061 (02-09-02); OMAE2022-81305 (02-09-02)
Seo, Yutaek	OMAE2022-79494 (04-04-01)
Serdyuk, Yuriy	OMAE2022-79467 (02-12-02)
Serraris, Jorrit-Jan	OMAE2022-80520 (08-03-01)
Sevillano, Lucas	OMAE2022-80149 (05-03-01); OMAE2022-80637 (11-08-01)

AUTHOR INDEX

Seyffert, Harleigh	OMAE2022-79479 (01-07-01)
Shademani, Roya	OMAE2022-81076 (06-15-01)
Shafie, W Hariz Fadli W	OMAE2022-81373 (01-01-02)
Shafik Khaled, Mohamed	OMAE2022-79540 (11-03-02)
Shan, Zhigang	OMAE2022-80173 (07-06-01)
Shang, Baoguo	OMAE2022-78937 (06-12-01)
Shankar Verma, Amrit	OMAE2022-78799 (06-05-01)
Shanmugasundaram, Ranjith Khumar	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01)
Shao, Wu	OMAE2022-79642 (06-14-01)
Shao, Yanlin	OMAE2022-79054 (06-05-02)
Shen, Chen	OMAE2022-79856 (04-03-01)
Shen, Jiawei	OMAE2022-79804 (08-06-01)
Shen, Joanne	OMAE2022-79292 (04-03-02)
Shen, Kanmin	OMAE2022-79090 (10-02-01); OMAE2022-79769 (10-02-01)
Shen, Yang	OMAE2022-79323 (05-05-02)
Shen, Zhirong	OMAE2022-87901 (01-06-01)
Shi, Shuzhe	OMAE2022-80143 (11-08-01)
Shi, Ting	OMAE2022-80173 (07-06-01)
Shi, Wei	OMAE2022-80493 (09-01-13); OMAE2022-80585 (09-01-05)
Shi, Weichao	OMAE2022-78048 (06-14-01); OMAE2022-78157 (06-15-01); OMAE2022-80807 (06-05-04)
Shi, Xiaohua	OMAE2022-79323 (05-05-02)
Shibata, Daisuke	OMAE2022-81027 (05-06-01)
Shinomoto, Kyohei	OMAE2022-79056 (02-09-01)
Shirzadeh, Rasoul	OMAE2022-79247 (03-02-01)
Shixiao, Fu	OMAE2022-81293 (04-01-03)
Shou, Chunhui	OMAE2022-79323 (05-05-02)
Silva Santos Moreira, Paulo Henrique	OMAE2022-78634 (11-05-04)
Silva, Kevin	OMAE2022-79139 (06-05-02)
Silva, Marina Simplicio Da	OMAE2022-78146 (06-14-01)
Simao Ferreira, Carlos	OMAE2022-80276 (09-03-02)
Simão, Marina	OMAE2022-78408 (02-06-02); OMAE2022-79098 (02-06-02); OMAE2022-79118 (02-06-02)
Simos, Alexandre	OMAE2022-79264 (06-05-02)
Sinsabvarodom, Chana	OMAE2022-80098 (02-09-03)
Sirigu, Sergej Antonello	OMAE2022-81464 (09-02-02); OMAE2022-81530 (09-02-01)
Sivakumar, Vinayagamoothy	OMAE2022-78352 (09-01-14)
Sivasithamparam, Nallathamby	OMAE2022-81101 (10-03-01)
Sizova, Sofya	OMAE2022-79124 (09-01-04)
Skaare, Bjørn	OMAE2022-80933 (09-01-03)
Skaldebø, Martin	OMAE2022-79913 (06-11-03)
Skallerud, Bjørn	OMAE2022-79649 (01-02-01)
Skeie, Geir	OMAE2022-81326 (04-01-04)
Skilbred, Anders Werner Bredvei	OMAE2022-87375 (02-05-01); OMAE2022-87376 (02-05-01); OMAE2022-87377 (02-05-01)
Skjetne, Roger	OMAE2022-82707 (09-02-06)
Skjulstad, Christoffer	OMAE2022-79186 (06-11-01)
Skogestad, Jan Ole	OMAE2022-78790 (11-12-01)
Skorpa, Ragnhild	OMAE2022-81072 (11-06-01); OMAE2022-81074 (11-07-01); OMAE2022-81330 (11-12-02)
Skretting, Trygve Mikal Viga	OMAE2022-80314 (11-13-01)
Slagstad, Martin	OMAE2022-80446 (05-02-02)
Smith, Doug	OMAE2022-80904 (07-02-01)
Smith, Jennifer	OMAE2022-78097 (07-02-01); OMAE2022-80904 (07-02-01)
Smith, Ryan	OMAE2022-79817 (01-08-02)
Smyczyński, Marcin	OMAE2022-78537 (10-01-01)
Sødahl, Nils	OMAE2022-81326 (04-01-04)
Sohn, Jung Min	OMAE2022-78729 (02-13-01)
Solaas, Frøydis	OMAE2022-79718 (01-03-01)
Solum, Vegard R.	OMAE2022-78261 (06-05-01)
Somoano, Miguel	OMAE2022-78552 (09-01-06); OMAE2022-79834 (09-01-12)
Son, Daewoong	OMAE2022-81555 (09-01-11)

AUTHOR INDEX

Song, Bin	OMAE2022-81325 (06-03-04)
Song, Jingjing	OMAE2022-79898 (02-09-02)
Song, Zihao	OMAE2022-78707 (02-04-02)
Soper, Jonathan	OMAE2022-78097 (07-02-01)
Sørum, Lars	OMAE2022-81330 (11-12-02)
Sotiralis, Panagiotis	OMAE2022-79031 (06-01-01)
Sotoudeh, Kasra	OMAE2022-79852 (03-04-01)
Sourisseau, Quentin	OMAE2022-79079 (01-01-01)
Souza, Gilberto Francisco Martha	OMAE2022-79179 (02-14-01)
Spiliotopoulos, George	OMAE2022-79089 (06-16-01)
Spradbery, Chas	OMAE2022-80172 (04-01-05)
Sprenger, Florian	OMAE2022-79170 (12-02-01)
Srinil, Narakorn	OMAE2022-78236 (08-06-02)
Sriskandarajah, Thurairajah	OMAE2022-79862 (04-03-01)
Stableford, Richard	OMAE2022-79856 (04-03-01)
Stachyra, Leszek	OMAE2022-78758 (08-07-01)
Stamatopoulou, Eirini	OMAE2022-79031 (06-01-01)
Stamou, Aris	OMAE2022-79129 (04-03-01)
Staneva, Joanna	OMAE2022-79652 (02-01-03)
Stange, Timo	OMAE2022-79014 (07-05-01)
Stanko, Milan	OMAE2022-78647 (11-13-01); OMAE2022-79513 (04-04-01)
Stappenbelt, Brad	OMAE2022-80245 (09-03-02)
Stark, Anne	OMAE2022-81150 (10-02-01)
Stark, Callum	OMAE2022-78048 (06-14-01); OMAE2022-78157 (06-15-01); OMAE2022-80807 (06-05-04)
Starostin, Alexander	OMAE2022-78394 (11-02-01)
Steen, Sverre	OMAE2022-78433 (06-12-01)
Steinstø, Magnus	OMAE2022-80314 (11-13-01)
Stender, Merten	OMAE2022-78601 (12-03-01)
Storhaug, Gaute	OMAE2022-80511 (02-07-01); OMAE2022-81275 (02-04-01)
Storheim, Martin	OMAE2022-81112 (02-10-01)
Stranden, Øystein	OMAE2022-85896 (02-16-01)
Ströer, Lena	OMAE2022-79203 (09-01-02)
Strømmegjerde, Lars	OMAE2022-79513 (04-04-01)
Stutz, Hans Henning	OMAE2022-79696 (10-01-02); OMAE2022-79853 (10-04-01)
Su, Donghua	OMAE2022-80440 (11-06-01); OMAE2022-80506 (11-05-03)
Suboyin, Abhijith	OMAE2022-79074 (11-10-03)
Subramaniamkuwait, Neelamani	OMAE2022-80202 (06-08-01)
Suci, Indah Melati	OMAE2022-79120 (02-11-01)
Sudati Sagrilo, Luis Volnei	OMAE2022-79118 (02-06-02)
Sugimoto, Kei	OMAE2022-79056 (02-09-01)
Sugiyama, Asami	OMAE2022-81027 (05-06-01)
Suhaili, Ave Suhendra	OMAE2022-81373 (01-01-02)
Sui, Dan	OMAE2022-78146 (06-14-01); OMAE2022-78427 (11-04-01); OMAE2022-78451 (11-01-01); OMAE2022-78752 (11-04-01); OMAE2022-79747 (11-04-02)
Sukri, Hilmi	OMAE2022-79903 (12-01-02)
Sulaiman, Zana	OMAE2022-78395 (01-06-01)
Sumer, B. Mutlu	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01)
Sun, Hongyu	OMAE2022-79022 (11-10-03)
Sun, Hui	OMAE2022-81275 (02-04-01)
Sun, Jinfei	OMAE2022-80440 (11-06-01)
Sun, Jing	OMAE2022-81006 (09-03-01)
Sun, Xiaoshuai	OMAE2022-79000 (08-05-01)
Sun, Ziting	OMAE2022-80010 (11-11-01)
Sung, Rebecca	OMAE2022-81477 (06-14-03)
Suominen, Mikko	OMAE2022-79035 (07-01-01); OMAE2022-80767 (07-09-01)
Suret, Pierre	OMAE2022-78334 (12-02-01)
Suriben, Kristia	OMAE2022-81058 (06-14-03)
Suroor, Hadi	OMAE2022-80164 (10-01-02)

AUTHOR INDEX

Suryanarayana, Poodipeddi V	OMAE2022-80089 (11-01-02)
Suzuki, Hideyuki	OMAE2022-80344 (09-01-12)
Suzuki, Masahiro	OMAE2022-79452 (05-04-01)
Svendsen, Harald G	OMAE2022-78802 (11-12-01); OMAE2022-80645 (11-12-02)
Swan, Chris	OMAE2022-80945 (02-09-01)
Syed Kamarul Ariffin, Syed Yunus	OMAE2022-80089 (11-01-02)

T

Tabeta, Shigeru	OMAE2022-78999 (05-05-03); OMAE2022-80564 (01-01-02)
Tabri, Kristjan	OMAE2022-79035 (07-01-01)
Taghavi, Mahmood	OMAE2022-78775 (06-04-01)
Taghavi, Seyed Mohammad	OMAE2022-78848 (11-05-01); OMAE2022-79424 (11-05-02); OMAE2022-79461 (11-05-02)
Taghavifar, Hadi	OMAE2022-78774 (06-04-01)
Taghipour, Ali	OMAE2022-78830 (11-02-02); OMAE2022-79937 (11-05-02); OMAE2022-81072 (11-06-01)
Tagliaferro, Bonaventura	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Takahashi, Kenshiro	OMAE2022-79760 (06-14-02); OMAE2022-79762 (06-14-02)
Takahashi, Koji	OMAE2022-81027 (05-06-01)
Takano, Satoru	OMAE2022-79597 (05-03-01); OMAE2022-79601 (05-03-01); OMAE2022-80247 (05-03-01)
Takbash, Alicia	OMAE2022-79587 (02-01-02)
Takeda, Takashi	OMAE2022-79432 (09-01-13)
Talic, Belma	OMAE2022-78379 (09-05-01)
Tamura, Hiroki	OMAE2022-78933 (05-02-01)
Tan, Jian	OMAE2022-79119 (09-02-02)
Tan, Kelvin	OMAE2022-80754 (01-08-02)
Tan, Lei	OMAE2022-79153 (05-05-02); OMAE2022-79910 (06-03-03)
Tan, Runze	OMAE2022-79898 (02-09-02)
Tan, Wei Siang	OMAE2022-81256 (08-04-03)
Tan, Zhimin	OMAE2022-83730 (04-01-01)
Tanaka, Satoyuki	OMAE2022-78529 (02-04-02)
Tang, Engao	OMAE2022-81340 (11-10-02)
Tang, Hung-Jie	OMAE2022-79431 (05-02-02)
Tang, Tianning	OMAE2022-80596 (06-16-03); OMAE2022-80636 (02-01-01)
Tang, Xiang-Jie	OMAE2022-78945 (07-04-01)
Tang, Yanli	OMAE2022-78936 (05-02-01); OMAE2022-78941 (01-06-01)
Tannuri, Eduardo Aoun	OMAE2022-78603 (06-07-01); OMAE2022-78607 (06-07-01)
Tao, Longbin	OMAE2022-79109 (09-01-02); OMAE2022-79248 (09-01-10)
Taskar, Bhushan	OMAE2022-80042 (12-03-01); OMAE2022-80816 (06-05-04)
Tatsumi, Akira	OMAE2022-78630 (02-16-02); OMAE2022-79636 (05-05-03)
Tavakoli, Sasan	OMAE2022-80598 (06-03-04)
Taylor, Paul	OMAE2022-80885 (09-02-01); OMAE2022-81242 (06-03-04)
Taylor, Rocky	OMAE2022-79211 (07-05-01)
Tazedakis, Athanasios	OMAE2022-79129 (04-03-01)
Tedeschi, Elisabetta	OMAE2022-80645 (11-12-02)
Teng, Xiaoqing	OMAE2022-80037 (06-03-04)
Teng, Yunfei	OMAE2022-80172 (04-01-05)
Tezdogan, Tahsin	OMAE2022-78131 (08-04-01); OMAE2022-86100 (08-07-02)
Thiagarajan, Krish	OMAE2022-81518 (09-02-06)
Thibaux, Philippe	OMAE2022-79247 (03-02-01); OMAE2022-79458 (03-04-01)
Thies, Philipp R.	OMAE2022-78095 (09-01-01); OMAE2022-78417 (09-03-01);
.....	OMAE2022-79855 (09-01-08); OMAE2022-80926 (09-01-03)
Thijssen, Jan	OMAE2022-79211 (07-05-01)
Thirunaavukkarasu, Shivaji Ganesan	OMAE2022-79654 (01-07-01)
Thoben, Klaus-Dieter	OMAE2022-79081 (09-01-01); OMAE2022-79203 (09-01-02)
Thomas, Giles	OMAE2022-80110 (09-02-03); OMAE2022-80182 (06-01-01)
Thome, Michael	OMAE2022-78835 (12-01-01)
Thuen, Kristian	OMAE2022-79008 (04-01-03)
Thurumella, Hemant	OMAE2022-79274 (02-03-01)
Timpano, Bruna	OMAE2022-79148 (02-09-01)

AUTHOR INDEX

Tjåland, Egil	OMAE2022-81273 (11-12-02)
Tobase, Takaomi	OMAE2022-78523 (11-11-01)
Tödter, Simon	OMAE2022-80115 (08-06-02)
Tognarelli, Michael A.	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Toichi, Kenta	OMAE2022-79636 (05-05-03)
Toivola, Jarkko	OMAE2022-80925 (07-02-01)
Tom, Nathan Michael	OMAE2022-80972 (09-02-05); OMAE2022-81518 (09-02-06)
Tomasgard, Asgeir	OMAE2022-78551 (11-12-01)
Tona, Paolino	OMAE2022-81067 (01-08-02)
Tong, Feifei	OMAE2022-80172 (04-01-05); OMAE2022-81219 (06-12-02)
Töns, Tönis	OMAE2022-79035 (07-01-01)
Tørnes, Knut	OMAE2022-79008 (04-01-03)
Tran, Eric	OMAE2022-81285 (04-01-04)
Tran, Jimmy	OMAE2022-80349 (06-14-02)
Tran, Thanh Toan	OMAE2022-78191 (09-02-03)
Trentin Gonçalves, Rodolfo	OMAE2022-80344 (09-01-12)
Trigo, Caio C. O.	OMAE2022-79985 (11-08-01)
Trodden, David	OMAE2022-79891 (06-14-02)
Troll, Moritz	OMAE2022-78157 (06-15-01); OMAE2022-80807 (06-05-04)
Tryfonidis, Christodoulos	OMAE2022-79483 (09-01-13)
Tsao, Wen-Huai	OMAE2022-79607 (08-01-01)
Tuhkuri, Jukka	OMAE2022-80767 (07-09-01); OMAE2022-81054 (07-03-01)
Tytler, Oluwafemi	OMAE2022-79273 (11-01-01)

U

Uehara Sasaki, Humberto Akira	OMAE2022-78714 (06-11-01)
Uemura, Keisuke	OMAE2022-80248 (06-12-02)
Umeda, Jun	OMAE2022-78745 (05-04-01)
Urlaub, Morelia	OMAE2022-81151 (10-01-02)
Utama, I Ketut Aria Pria	OMAE2022-80182 (06-01-01)
Utsunomiya, Tomoaki	OMAE2022-78135 (05-05-01); OMAE2022-78136 (05-05-01)

V

Vaalandsmyr, Anders	OMAE2022-79057 (03-05-01)
Valdez, Martín	OMAE2022-79322 (03-04-01)
Van Beek, Kees	OMAE2022-78507 (07-05-01)
Van Den Berg, Marnix	OMAE2022-78507 (07-05-01); OMAE2022-78972 (07-01-01)
Van Den Bremer, Ton	OMAE2022-79108 (08-05-02)
Van Den Bremer, Ton	OMAE2022-80594 (06-16-03); OMAE2022-80596 (06-16-03)
Van Der Plas, Peter	OMAE2022-80520 (08-03-01)
Van Duin, Stephen	OMAE2022-87473 (03-06-01)
van Essen, Sanne	OMAE2022-79479 (01-07-01)
Van Wittenberghe, Jeroen	OMAE2022-79247 (03-02-01)
Vanden Haute, Cedric	OMAE2022-79247 (03-02-01); OMAE2022-79458 (03-04-01)
Vanem, Erik	OMAE2022-78795 (02-02-01)
Vanhatalo, Jarno	OMAE2022-80767 (07-09-01); OMAE2022-80903 (07-09-01)
Vanjakula, Vinay Kumar	OMAE2022-79821 (10-01-01)
Varela, Jose Miguel	OMAE2022-79530 (12-01-02)
Varelis, George E.	OMAE2022-79151 (04-03-02)
Vaz, Guilherme	OMAE2022-80578 (09-02-04); OMAE2022-81337 (08-04-03)
Veitch, Brian	OMAE2022-78097 (07-02-01); OMAE2022-79514 (07-09-01); OMAE2022-80767 (07-09-01); OMAE2022-80904 (07-02-01)
Veldman, Arthur	OMAE2022-81105 (08-05-02)
Venero, Germain	OMAE2022-80858 (11-03-02)
Ventikos, Nikolaos	OMAE2022-79031 (06-01-01)
Venugopal, Vengatesan	OMAE2022-78673 (09-01-10)

AUTHOR INDEX

Vergassola, Gianmarco	OMAE2022-80387 (02-12-01); OMAE2022-81100 (12-01-02)
Verma, Amrit Shankar	OMAE2022-80701 (09-01-03)
Verma, Uttam	OMAE2022-79051 (07-02-01)
Vermeer, Erwin	OMAE2022-79709 (04-01-01)
Vernengo, Giuliano	OMAE2022-81431 (08-05-01)
Vestbøstad, Tone	OMAE2022-79068 (01-03-01); OMAE2022-79076 (01-03-01)
Viccione, Giacomo	OMAE2022-78419 (06-01-01); OMAE2022-78810 (06-03-02)
Videiro, Paulo	OMAE2022-78408 (02-06-02); OMAE2022-79098 (02-06-02); OMAE2022-79118 (02-06-02)
Vijayasarithi, Lakshmi Narasiman	OMAE2022-78583 (06-05-01)
Vileti, Vinicius Lopes	OMAE2022-79063 (06-03-02)
Vilhelm Høyland, Knut	OMAE2022-79661 (07-03-01)
Villa, Diego	OMAE2022-81431 (08-05-01)
Viola, Mathieu	OMAE2022-79591 (01-02-01)
Virdi, Satinder Singh	OMAE2022-80754 (01-08-02)
Vogl, Anastasia	OMAE2022-78935 (11-02-02); OMAE2022-79290 (11-07-01)
Vogler, Arne	OMAE2022-81143 (06-16-03)
Vøllestad, Einar	OMAE2022-78379 (09-05-01)
von Bock und Polach, Rüdiger Ulrich Franz	OMAE2022-78068 (07-01-01); OMAE2022-78186 (07-07-01); OMAE2022-78431 (02-04-01); OMAE2022-78674 (06-03-01); OMAE2022-78878 (07-07-01); OMAE2022-82014 (02-04-02); OMAE2022-87434 (07-05-01)
Von Hafenbradl, Franz Otto	OMAE2022-81074 (11-07-01)
Von Selle, Hubertus	OMAE2022-78431 (02-04-01)
Voudouris, Nikos	OMAE2022-79129 (04-03-01)
Vrålstad, Torbjørn	OMAE2022-81072 (11-06-01)
Vrana, Til Kristian	OMAE2022-78802 (11-12-01)

W

Wada, Ryota	OMAE2022-79888 (06-07-02)
Wagle, Vikrant	OMAE2022-80939 (11-05-03); OMAE2022-81049 (11-05-03); OMAE2022-81450 (11-03-02); OMAE2022-81453 (11-05-04)
Wahls, Sander	OMAE2022-78098 (06-16-01); OMAE2022-78882 (06-16-01); OMAE2022-79838 (06-16-02)
Wahrendorf, Johannes	OMAE2022-79916 (09-01-08)
Waldal, Nile	OMAE2022-78935 (11-02-02); OMAE2022-79290 (11-07-01)
Walker, Stuart	OMAE2022-78417 (09-03-01)
Wan, Decheng	OMAE2022-78288 (09-01-06)
Wan, Qi	OMAE2022-78671 (02-11-01)
Wang, Baoxuan	OMAE2022-81290 (09-01-05)
Wang, Bin	OMAE2022-80585 (09-01-05)
Wang, Bo	OMAE2022-78751 (11-10-03)
Wang, Chengwen	OMAE2022-81113 (11-05-04)
Wang, Chunlin	OMAE2022-81075 (02-16-02)
Wang, Deyu	OMAE2022-78671 (02-11-01); OMAE2022-78746 (02-10-02); OMAE2022-78932 (02-11-01); OMAE2022-80032 (06-11-03)
Wang, Fang	OMAE2022-87473 (03-06-01)
Wang, Haibo	OMAE2022-78539 (11-10-01)
Wang, Jie	OMAE2022-78031 (11-10-01); OMAE2022-78539 (11-10-01)
Wang, Junzhe	OMAE2022-78739 (11-04-01)
Wang, Kexin	OMAE2022-79022 (11-10-03)
Wang, Kuanjun	OMAE2022-79090 (10-02-01); OMAE2022-79769 (10-02-01)
Wang, Liqi	OMAE2022-81340 (11-10-02)
Wang, Luqun	OMAE2022-79104 (08-07-01)
Wang, Qian	OMAE2022-79515 (09-01-07)
Wang, Qing	OMAE2022-78751 (11-10-03); OMAE2022-79271 (11-10-02)
Wang, Qing	OMAE2022-79450 (08-02-01)
Wang, Qinghu	OMAE2022-78932 (02-11-01)
Wang, Rongjun	OMAE2022-78751 (11-10-03)
Wang, Shan	OMAE2022-79037 (12-02-01); OMAE2022-79048 (12-01-02)
Wang, Shuqing	OMAE2022-81238 (06-11-03)

AUTHOR INDEX

Wang, Tianying	OMAE2022-81085 (01-01-02)
Wang, Weizhi	OMAE2022-79010 (06-16-01); OMAE2022-79036 (06-05-01)
Wang, Wenhua	OMAE2022-80493 (09-01-13); OMAE2022-80585 (09-01-05)
Wang, Xianzhou	OMAE2022-79104 (08-07-01); OMAE2022-79450 (08-02-01); OMAE2022-79453 (08-02-01); OMAE2022-79795 (08-01-02); OMAE2022-79828 (08-01-02); OMAE2022-81133 (06-08-01)
Wang, Xiaowei	OMAE2022-81048 (02-16-01)
Wang, Xintong	OMAE2022-78575 (02-11-01)
Wang, Yufei	OMAE2022-79583 (06-04-02)
Wang, Yuhan	OMAE2022-79289 (02-03-01)
Wang, Yutao	OMAE2022-79449 (01-05-01); OMAE2022-81245 (09-01-09)
Wang, Zeping	OMAE2022-78955 (07-06-01)
Wang, Zhenghua	OMAE2022-79591 (01-02-01)
Wappler, Andreas	OMAE2022-79696 (10-01-02)
Watanabe, Mitsushi	OMAE2022-79783 (06-13-01)
Watson, Phil	OMAE2022-78017 (04-01-01); OMAE2022-81245 (09-01-09)
Wedler, Mathies	OMAE2022-78601 (12-03-01)
Wei, Chen	OMAE2022-79176 (11-03-01)
Wei, Chenji	OMAE2022-80143 (11-08-01)
Wei, Handi	OMAE2022-80037 (06-03-04)
Wei, Naikun	OMAE2022-80032 (06-11-03)
Wei, Xinran	OMAE2022-78523 (11-11-01)
Wei, Yujia	OMAE2022-78131 (08-04-01)
Werter, Noud	OMAE2022-79655 (02-10-02)
White, David	OMAE2022-80172 (04-01-05); OMAE2022-81101 (10-03-01)
White, Elizabeth	OMAE2022-78017 (04-01-01)
Whittaker, Trevor	OMAE2022-78762 (09-04-01); OMAE2022-79728 (09-04-01)
Wiggen, Frode	OMAE2022-81319 (03-03-01)
Wiik, Jan	OMAE2022-78802 (11-12-01)
Wiktorski, Tomasz	OMAE2022-78427 (11-04-01); OMAE2022-79046 (11-04-01)
Willems, Tom	OMAE2022-78507 (07-05-01); OMAE2022-78764 (07-01-01)
Williams, Neil	OMAE2022-81155 (09-02-03)
Windt, Christian	OMAE2022-78992 (10-01-01); OMAE2022-79025 (10-01-01); OMAE2022-79821 (10-01-01); OMAE2022-81080 (08-05-01)
Winiarska, Ewelina	OMAE2022-78567 (02-02-01)
Wolgamot, Hugh	OMAE2022-79449 (01-05-01); OMAE2022-80885 (09-02-01); OMAE2022-81219 (06-12-02); OMAE2022-81242 (06-03-04); OMAE2022-81245 (09-01-09)
Wong, Jian Cheng	OMAE2022-81237 (08-04-04)
Woodcock, Luke	OMAE2022-80349 (06-14-02)
Woolsey, Craig	OMAE2022-80485 (06-05-04)
Wu, Bohong	OMAE2022-80143 (11-08-01)
Wu, Chunxiao	OMAE2022-79642 (06-14-01)
Wu, Fanlei	OMAE2022-81033 (02-13-01)
Wu, Guodong	OMAE2022-78776 (11-10-03); OMAE2022-80060 (11-10-04)
Wu, Hua-Tung	OMAE2022-86751 (09-01-11)
Wu, Jiameng	OMAE2022-78955 (07-06-01)
Wu, Jie	OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79147 (01-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Wu, Jingyi	OMAE2022-81033 (02-13-01)
Wu, Xuning	OMAE2022-80440 (11-06-01)
Wu, Xuning	OMAE2022-80506 (11-05-03)
Wuillaume, Pierre-Yves	OMAE2022-79155 (09-01-04); OMAE2022-80174 (06-05-03)

X

Xia, Jinzhu	OMAE2022-79903 (12-01-02)
Xia, Yiqing	OMAE2022-80883 (09-01-07)
Xiang-Jie, Tang	OMAE2022-78558 (07-04-01)
Xiang, Han	OMAE2022-78951 (08-04-02); OMAE2022-79768 (08-04-02)
Xianyin, Chen	OMAE2022-80212 (02-04-01)

AUTHOR INDEX

Xiao, Longfei	OMAE2022-78666 (09-01-08); OMAE2022-80037 (06-03-04)
Xiao, Qing	OMAE2022-78288 (09-01-06); OMAE2022-78673 (09-01-10); OMAE2022-79016 (08-04-01)
Xin, Ping	OMAE2022-81422 (06-12-02)
Xin, Zirui	OMAE2022-80038 (06-16-03)
Xing, Xiuqing	OMAE2022-81256 (08-04-03)
Xing, Yihan	OMAE2022-78146 (06-14-01); OMAE2022-78877 (09-01-11); OMAE2022-79448 (06-14-01); OMAE2022-79485 (06-01-01)
Xiong, Ting	OMAE2022-80359 (06-11-03)
Xu, Changfeng	OMAE2022-79271 (11-10-02)
Xu, Donghao	OMAE2022-81422 (06-12-02)
Xu, Fengbin	OMAE2022-78590 (04-02-02)
Xu, Haihua	OMAE2022-78981 (08-01-01); OMAE2022-79152 (01-06-01)
Xu, Hang	OMAE2022-79908 (11-10-04); OMAE2022-79920 (11-10-04)
Xu, Hualei	OMAE2022-78020 (11-10-01); OMAE2022-78031 (11-10-01)
Xu, Lixin	OMAE2022-81033 (02-13-01)
Xu, Nuoya	OMAE2022-79066 (06-05-02)
Xu, Shiji	OMAE2022-78936 (05-02-01); OMAE2022-78941 (01-06-01)
Xu, Ying	OMAE2022-78955 (07-06-01)
Xu, Yishi	OMAE2022-81427 (02-16-02); OMAE2022-81437 (02-16-01)
Xu, Yunxin	OMAE2022-78048 (06-14-01); OMAE2022-78157 (06-15-01)
Xu, Yuwang	OMAE2022-79804 (08-06-01); OMAE2022-81325 (06-03-04)
Xu, Zhiting	OMAE2022-79688 (02-04-02)
Xue, Meng	OMAE2022-79610 (11-02-03)

Y

Yam, Roderick	OMAE2022-79591 (01-02-01)
Yamada, Yasuhira	OMAE2022-78638 (02-12-02)
Yamaguchi, Alan Junji	OMAE2022-78523 (11-11-01)
Yamamoto, Joji	OMAE2022-78330 (05-03-01); OMAE2022-80247 (05-03-01)
Yamamoto, Marcio	OMAE2022-78330 (05-03-01); OMAE2022-79597 (05-03-01); OMAE2022-80247 (05-03-01)
Yamamoto, Yusuke	OMAE2022-78175 (05-05-01)
Yamashita, Yoshihiko	OMAE2022-80564 (01-01-02)
Yamashita, Yuuki	OMAE2022-80564 (01-01-02)
Yan, Shengyu	OMAE2022-79418 (02-12-01)
Yang, Daoyong	OMAE2022-80869 (11-11-01); OMAE2022-81225 (11-11-01)
Yang, Hong	OMAE2022-78021 (11-10-01)
Yang, Jun	OMAE2022-79788 (08-01-02)
Yang, Limin	OMAE2022-81465 (02-06-02)
Yang, Mingda	OMAE2022-78936 (05-02-01); OMAE2022-78941 (01-06-01)
Yang, Ray-Yeng	OMAE2022-79431 (05-02-02)
Yang, Tianen	OMAE2022-79066 (06-05-02)
Yang, Xuelian	OMAE2022-80032 (06-11-03)
Yang, Yinhua	OMAE2022-80642 (06-07-02)
Yang, Yu	OMAE2022-81427 (02-16-02); OMAE2022-81437 (02-16-01)
Yang, Zihao	OMAE2022-79283 (09-01-02)
Yanik, Abdussamed	OMAE2022-78546 (11-02-02)
Yao, Chaobang	OMAE2022-79000 (08-05-01); OMAE2022-79768 (08-04-02); OMAE2022-79779 (08-02-01); OMAE2022-79788 (08-01-02); OMAE2022-79791 (08-07-02); OMAE2022-79795 (08-01-02)
Yao, Erdong	OMAE2022-78751 (11-10-03); OMAE2022-78776 (11-10-03); OMAE2022-79271 (11-10-02); OMAE2022-79610 (11-02-03); OMAE2022-79908 (11-10-04); OMAE2022-79920 (11-10-04); OMAE2022-80060 (11-10-04)
Yao, Houqi	OMAE2022-79142 (02-10-02)
Yao, Huadong	OMAE2022-79867 (08-04-02)
Yao, Juntian	OMAE2022-79769 (10-02-01)
Yao, Shulong	OMAE2022-78715 (09-01-06)
Yao, Xi	OMAE2022-79828 (08-01-02)
Yap, Yun Thiam	OMAE2022-80089 (11-01-02)
Ye, Bin	OMAE2022-79772 (08-04-02); OMAE2022-81133 (06-08-01)

AUTHOR INDEX

Yeager, Kathryn	OMAE2022-81058 (06-14-03)
Yeh, Po-Hung	OMAE2022-79431 (05-02-02)
Yeow, Song Wen	OMAE2022-80042 (12-03-01)
Yeter, Baran	OMAE2022-78184 (02-07-01); OMAE2022-78185 (02-07-01)
Yi, Ping	OMAE2022-80775 (10-04-01)
Yiew, Lucas	OMAE2022-80816 (06-05-04)
Yilmaz, S. Utku	OMAE2022-78992 (10-01-01)
Yim, Solomon	OMAE2022-81470 (09-02-06)
Yin, Decao	OMAE2022-79006 (09-01-10); OMAE2022-79015 (08-06-01); OMAE2022-79033 (08-06-01); OMAE2022-79180 (08-06-01); OMAE2022-79191 (08-06-01)
Yin, Guang	OMAE2022-78378 (08-06-02); OMAE2022-78925 (06-05-01)
Yin, Qishuai	OMAE2022-80261 (11-01-02)
Yoshimoto, Haruki	OMAE2022-79432 (09-01-13)
Young, Ian	OMAE2022-78610 (06-07-01); OMAE2022-79587 (02-01-02)
Yousefi, Iman	OMAE2022-80883 (09-01-07)
Ytrehus, Jan David	OMAE2022-78266 (11-02-01); OMAE2022-78830 (11-02-02); OMAE2022-79937 (11-05-02); OMAE2022-81330 (11-12-02)
Yu, Jian	OMAE2022-79769 (10-02-01)
Yu, Jianxing	OMAE2022-81033 (02-13-01)
Yu, Jiawei	OMAE2022-79104 (08-07-01); OMAE2022-79768 (08-04-02); OMAE2022-79772 (08-04-02)
Yu, Kai	OMAE2022-78981 (08-01-01)
Yu, Liwei	OMAE2022-81238 (06-11-03)
Yu, Tao	OMAE2022-80143 (11-08-01)
Yu, Wei	OMAE2022-81065 (09-01-12)
Yu, Wentai	OMAE2022-79231 (04-02-02)
Yu, Xiangpeng	OMAE2022-80095 (02-03-01)
Yu, Yang	OMAE2022-81033 (02-13-01)
Yuan, Jiabei	OMAE2022-83730 (04-01-01)
Yuan, Shuai	OMAE2022-79844 (09-01-02); OMAE2022-80701 (09-01-03)
Yue, Jingxia	OMAE2022-79688 (02-04-02); OMAE2022-79898 (02-09-02)
Yukawa, Kazuhiro	OMAE2022-80248 (06-12-02)
Yun, Kwang Hee	OMAE2022-79765 (03-02-01)

Z

Zago, Lariuss	OMAE2022-79264 (06-05-02)
Zaman, M Hasanat	OMAE2022-78578 (06-03-01); OMAE2022-79255 (07-06-01)
Zamarin, Albert	OMAE2022-79308 (03-05-01)
Zang, Yuelong	OMAE2022-81275 (02-04-01)
Zao-Jian, Zou	OMAE2022-78547 (08-01-02); OMAE2022-78558 (07-04-01)
Zeng, Qingsong	OMAE2022-80679 (08-04-03)
Zhai, Yanyan	OMAE2022-79002 (06-02-01)
Zhang, Aobo	OMAE2022-80593 (09-01-09)
Zhang, Baili	OMAE2022-81256 (08-04-03)
Zhang, Chi	OMAE2022-78850 (01-01-01)
Zhang, Daniel	OMAE2022-80754 (01-08-02)
Zhang, Donglei	OMAE2022-79450 (08-02-01)
Zhang, Guiyong	OMAE2022-79571 (12-01-01)
Zhang, Hailong	OMAE2022-79022 (11-10-03)
Zhang, Hongyu	OMAE2022-78551 (11-12-01)
Zhang, Houxiang	OMAE2022-79844 (09-01-02)
Zhang, Jia	OMAE2022-78523 (11-11-01)
Zhang, Jian	OMAE2022-81340 (11-10-02)
Zhang, Jianan	OMAE2022-78997 (06-11-01)
Zhang, Liwei	OMAE2022-78751 (11-10-03)
Zhang, Lufeng	OMAE2022-78021 (11-10-01)
Zhang, Lufeng	OMAE2022-78539 (11-10-01); OMAE2022-79132 (11-10-02); OMAE2022-79920 (11-10-04)
Zhang, Mengchuan	OMAE2022-78751 (11-10-03); OMAE2022-79271 (11-10-02)
Zhang, Mengmeng	OMAE2022-79804 (08-06-01)

AUTHOR INDEX

Zhang, Min	OMAE2022-79066 (06-05-02)
Zhang, Nianfan	OMAE2022-80037 (06-03-04)
Zhang, Ruizi	OMAE2022-78621 (11-05-01); OMAE2022-79753 (11-05-02)
Zhang, Shaosong	OMAE2022-81555 (09-01-11)
Zhang, Shiyuan	OMAE2022-81325 (06-03-04)
Zhang, Xiantao	OMAE2022-81242 (06-03-04)
Zhang, Xun	OMAE2022-79456 (11-08-01)
Zhang, Zhi	OMAE2022-80748 (11-03-01)
Zhang, Zhiguo	OMAE2022-79772 (08-04-02); OMAE2022-81133 (06-08-01)
Zhang, Zili	OMAE2022-79853 (10-04-01)
Zhao, O	OMAE2022-78751 (11-10-03)
Zhao, Fenfang	OMAE2022-78936 (05-02-01); OMAE2022-78941 (01-06-01)
Zhao, Haisheng	OMAE2022-80493 (09-01-13)
Zhao, Min	OMAE2022-81225 (11-11-01)
Zhao, Shujie	OMAE2022-78400 (06-11-01); OMAE2022-79871 (06-11-03)
Zhao, Weidong	OMAE2022-79661 (07-03-01)
Zhao, Wenhua	OMAE2022-79449 (01-05-01); OMAE2022-80758 (01-05-01); OMAE2022-81245 (09-01-09); OMAE2022-81298 (12-03-01)
Zhao, Xiang	OMAE2022-81334 (08-04-03)
Zhao, Yongchang	OMAE2022-79610 (11-02-03)
Zhao, Zhixin	OMAE2022-80585 (09-01-05)
Zheng, Guanyi	OMAE2022-80440 (11-06-01)
Zheng, Yi	OMAE2022-79779 (08-02-01)
Zheng, Yingying	OMAE2022-78981 (08-01-01); OMAE2022-80816 (06-05-04)
Zhong, Ligu	OMAE2022-79022 (11-10-03)
Zhou, Daowu	OMAE2022-79401 (04-03-02)
Zhou, Fujian	OMAE2022-79908 (11-10-04); OMAE2022-79920 (11-10-04)
Zhou, Guangli	OMAE2022-79791 (08-07-02)
Zhou, Hongyu	OMAE2022-78746 (02-10-02)
Zhou, Wei	OMAE2022-81113 (11-05-04)
Zhou, Wensheng	OMAE2022-81340 (11-10-02)
Zhou, Xu	OMAE2022-80261 (11-01-02)
Zhou, Xueqian	OMAE2022-81422 (06-12-02); OMAE2022-81427 (02-16-02); OMAE2022-81437 (02-16-01)
Zhou, Yang	OMAE2022-79230 (09-01-07); OMAE2022-79942 (01-01-02)
Zhu, Hanhua	OMAE2022-80359 (06-11-03)
Zhu, Heng	OMAE2022-79867 (08-04-02)
Zhu, Linfa	OMAE2022-83730 (04-01-01)
Zhu, Ling	OMAE2022-81032 (06-05-04)
Zhu, Liyan	OMAE2022-79610 (11-02-03); OMAE2022-79908 (11-10-04)
Zhu, Yu	OMAE2022-79022 (11-10-03)
Ziemer, Gesa	OMAE2022-79014 (07-05-01)
Zorrilla Gomez, Luis Angel	OMAE2022-79278 (06-16-02)
Zou, Lu	OMAE2022-78945 (07-04-01)
Zou, Ming	OMAE2022-78945 (07-04-01)
Zou, Zao-Jian	OMAE2022-78945 (07-04-01)
Zwissler, Cristina C	OMAE2022-86835 (06-07-02)

Session Index

01 Offshore Technology

01-01-01	Offshore Platforms I	Monday June 6	Y1
01-01-02	Offshore Platforms II	Tuesday June 7	Y1
01-02-01	Station Keeping I	Tuesday June 7	Y1
01-03-01	Hydrodynamics	Tuesday June 7	Y1
01-05-01	FLNG Technology I	Wednesday June 8	Y1
01-06-01	CFD Modeling Practice and Verification I	Monday June 6	Y1
01-07-01	Wave Loading and Motions in Extreme Seas	Tuesday June 7	Y1
01-08-01	Digitalization, AI, Neural Networks, ML I	Thursday June 9	Y1
01-08-02	Digitalization, AI, Neural Networks, ML II	Wednesday June 8	Y1
01-09-01	Adapting/Mitigating Climate Change	Wednesday June 8	Y1

02 Structures, Safety and Reliability

02-01-01	Abnormal Waves	Tuesday June 7	Hall E
02-01-02	Extreme Waves	Tuesday June 7	Hall E
02-01-03	Extreme Sea States	Tuesday June 7	Hall E
02-02-01	Probabilistic and Spectral Wave Models	Tuesday June 7	Hall E
02-03-01	Probabilistic Response Models	Wednesday June 8	Hall F
02-04-01	Fatigue and Fracture Reliability I	Thursday June 9	Hall E
02-04-02	Fatigue and Fracture Reliability II	Thursday June 9	Hall E
02-05-01	Reliability of Marine Structures	Thursday June 9	Hall F
02-06-01	Reliability of Mooring and Riser Systems I	Monday June 6	Hall E
02-06-02	Reliability of Mooring and Riser Systems II	Monday June 6	Hall E
02-07-01	Reliability of Renewable Energy Systems	Wednesday June 8	Hall E
02-09-01	Extreme Loading and Responses I	Thursday June 9	Hall F
02-09-02	Extreme Loading and Responses II	Thursday June 9	Hall F
02-09-03	Extreme Loading and Responses III	Thursday June 9	Hall F
02-10-01	Collision and Crashworthiness I	Tuesday June 7	Hall F
02-10-02	Collision and Crashworthiness II	Tuesday June 7	Hall F
02-11-01	Ultimate Strength I	Wednesday June 8	Hall F
02-11-02	Ultimate Strength II	Wednesday June 8	Hall F
02-12-01	Structural Analysis and Optimization I	Tuesday June 7	Hall F
02-12-02	Structural Analysis and Optimization II	Tuesday June 7	Hall F
02-13-01	Risk Analysis and Management	Thursday June 9	Hall E
02-14-01	Risk Based Maintenance	Thursday June 9	Hall E
02-16-01	Data-driven Models for Marine Structures I	Wednesday June 8	Hall E
02-16-02	Data-driven Models for Marine Structures II	Wednesday June 8	Hall E

03 Materials Technology

03-01-01	Fracture Assessment and Control	Monday June 6	Hall D
03-02-01	Fatigue Performance and Testing	Monday June 6	Hall D
03-03-01	Integrity Assessment and Life Extension	Tuesday June 7	Hall D
03-04-01	Environmental Effect on Materials Performance	Tuesday June 7	Hall D
03-05-01	Performance and Reliability of Non-metallics	Tuesday June 7	Hall D
03-06-01	Advances in Materials and Manufacturing Technology	Tuesday June 7	Hall D

SESSION INDEX

04 Pipeline, Risers, and Subsea Systems

04-01-01	Flexible Pipes and Umbilicals I	Monday June 6	Y2
04-01-02	Flexible Pipes and Umbilicals II	Monday June 6	Y2
04-01-03	Flexible Pipes and Umbilicals III	Tuesday June 7	Y2
04-01-04	Flexible Pipes and Umbilicals IV	Tuesday June 7	Y2
04-01-05	Flexible Pipes and Umbilicals V	Tuesday June 7	Y2
04-02-01	Rigid Risers I	Tuesday June 7	Y2
04-02-02	Rigid Risers II	Wednesday June 8	Y2
04-02-03	Rigid Risers III	Wednesday June 8	Y2
04-03-01	Rigid Pipelines I	Wednesday June 8	Y2
04-03-02	Rigid Pipelines II	Thursday June 9	Y2
04-04-01	Flow Assurance and Subsea Equipment	Thursday June 9	Y2

05 Ocean Space Utilization

05-02-01	Aquaculture and Related Technology I	Monday June 6	Y3
05-02-02	Aquaculture and Related Technology II	Thursday June 9	Y3
05-03-01	Deepsea Mining and Ocean Resources	Thursday June 9	Y3
05-04-01	Underwater Development and Technology	Thursday June 9	Y3
05-05-01	Floating System for Renewable Energy I	Monday June 6	Y3
05-05-02	Floating System for Renewable Energy II	Wednesday June 8	Y3
05-05-03	Floating System for Renewable Energy III	Wednesday June 8	Y3
05-06-01	High Tide and Tsunamis	Wednesday June 8	Y3

06 Ocean Engineering

06-01-01	Computational Mechanics and Design Applications	Monday June 6	Y4
06-02-01	Coastal Engineering I	Monday June 6	Y4
06-02-02	Coastal Engineering II	Tuesday June 7	Y4
06-03-01	Fluid-structure, Multi-body and Wave-body Interaction I	Monday June 6	Y12
06-03-02	Fluid-structure, Multi-body and Wave-body Interaction II	Monday June 6	Y12
06-03-03	Fluid-structure, Multi-body and Wave-body Interaction III	Tuesday June 7	Y4
06-03-04	Fluid-structure, Multi-body and Wave-body Interaction IV	Tuesday June 7	Y4
06-04-01	Marine Engineering and Technology I	Tuesday June 7	Y3
06-04-02	Marine Engineering and Technology II	Tuesday June 7	Y4
06-05-01	Marine Hydrodynamics I	Tuesday June 7	Y3
06-05-02	Marine Hydrodynamics II	Tuesday June 7	Y3
06-05-03	Marine Hydrodynamics III	Tuesday June 7	Y3
06-05-04	Marine Hydrodynamics IV	Wednesday June 8	Y4
06-07-01	Metocean, Measurement and Data Interpretation I	Wednesday June 8	Y12
06-07-02	Metocean, Measurement and Data Interpretation II	Wednesday June 8	Y4
06-08-01	Model Tests	Wednesday June 8	Y4
06-11-01	Ocean Engineering Technology I	Thursday June 9	Y4
06-11-02	Ocean Engineering Technology II	Thursday June 9	Y4
06-11-03	Ocean Engineering Technology III	Thursday June 9	Y4
06-12-01	Ship Hydromechanics I	Wednesday June 8	Y9
06-12-02	Ship Hydromechanics II	Wednesday June 8	Y9
06-13-01	Towed and Undersea Cables and Pipes, Mooring, and Buoy Technology	Thursday June 9	Y4
06-14-01	Underwater Vehicles and Design Technology I	Thursday June 9	Y12
06-14-02	Underwater Vehicles and Design Technology II	Thursday June 9	Y12
06-14-03	Underwater Vehicles and Design Technology III	Thursday June 9	Y12
06-15-01	Unsteady Hydrodynamics, Vibrations, Acoustics and Propulsion	Wednesday June 8	Y12

SESSION INDEX

06-16-01	Wave Mechanics, Modeling and Wave Effects I	Thursday June 9	Y9
06-16-02	Wave Mechanics, Modeling and Wave Effects II	Thursday June 9	Y9
06-16-03	Wave Mechanics, Modeling and Wave Effects III	Thursday June 9	Y12

07 Polar and Arctic Sciences and Technology

07-01-01	Structures in Ice	Monday June 6	Y5
07-02-01	Arctic Sea Transportation	Tuesday June 7	Y5
07-03-01	Vessels in Ice - Loads	Tuesday June 7	Y5
07-04-01	Vessels in Ice - Simulations	Tuesday June 7	Y5
07-05-01	Ice Model Tests	Tuesday June 7	Y5
07-06-01	Numerical Ice Modeling	Wednesday June 8	Y5
07-07-01	Marine Propulsion System Under Ice Impact	Wednesday June 8	Y5
07-09-01	Scenario-Based Risk Management for Ice-Covered Waters: LRF- CEPOLAR Activities	Wednesday June 8	Y5

08 CFD and VIV

08-01-01	Waves and Loads	Thursday June 9	Y6
08-01-02	Propulsion, VIM, and CFD Spectra	Thursday June 9	Y6
08-02-01	Maneuvering	Thursday June 9	Y6
08-03-01	Waves, Motions, Impact	Wednesday June 8	Hall D
08-04-01	FSI	Monday June 6	Y6
08-04-02	Ship Design	Tuesday June 7	Y6
08-04-03	Offshore Wind	Tuesday June 7	Y6
08-04-04	Advanced Analytics	Tuesday June 7	Y6
08-05-01	Free Surface Flows I	Wednesday June 8	Y6
08-05-02	Free Surface Flows II	Wednesday June 8	Y6
08-06-01	VIV in Time-varying Flows	Monday June 6	Y6
08-06-02	VIV of Flexible Risers and Cables	Tuesday June 7	Y6
08-07-01	Internal Flows and FIV I	Wednesday June 8	Y6
08-07-02	Internal Flows and FIV II	Thursday June 9	Y6

09 Ocean Renewable Energy

09-01-01	Installation, Marine Operations and Maintenance I	Monday June 6	Y7
09-01-02	Installation, Marine Operations and Maintenance II	Monday June 6	Y7
09-01-03	Installation, Marine Operations and Maintenance III	Tuesday June 7	Y7
09-01-04	FWT Structural Dynamics I	Tuesday June 7	Y7
09-01-05	FWT Structural Dynamics II	Tuesday June 7	Y7
09-01-06	Wind Turbine AerodynamicsI	Tuesday June 7	Y7
09-01-07	Wind Turbine Aerodynamics II	Wednesday June 8	Y7
09-01-08	FWT Moorings and Arrays I	Thursday June 9	Y7
09-01-09	FWT Moorings and Arrays II	Thursday June 9	Y7
09-01-10	FWT Hydrodynamics	Wednesday June 8	Y7
09-01-11	Design and Optimization	Thursday June 9	Y7
09-01-12	Experimental Methods	Wednesday June 8	Y7
09-01-13	Novel and Hybrid Offshore Wind Concepts	Thursday June 9	Y8
09-01-14	Fatigue and Structural Analysis	Thursday June 9	Y7
09-02-01	Wave Environmental Modeling	Monday June 6	Y8
09-02-02	Techno-economic Modeling of WEC	Tuesday June 7	Y8
09-02-03	WEC performance analysis	Tuesday June 7	Y8
09-02-04	WEC Numerical Modeling	Tuesday June 7	Y8
09-02-05	WEC Controls and PTO I	Wednesday June 8	Y8
09-02-06	WEC Controls and PTO II	Wednesday June 8	Y8
09-03-01	Current and Tidal Energy I	Tuesday June 7	Y8

SESSION INDEX

09-03-02	Current and Tidal Energy II	Thursday June 9	Y8
09-04-01	Hybrids and Floating Solar Energy	Monday June 6	Y8
09-05-01	Energy Storage and Hydrogen	Wednesday June 8	Y8

10 Offshore Geotechnics

10-01-01	Seabed Properties and Processes	Monday June 6	Y9
10-01-02	Seabed Properties and Processes II	Monday June 6	Y9
10-02-01	Piles	Tuesday June 7	Y9
10-03-01	Anchors and Pipelines I	Tuesday June 7	Y9
10-03-02	Anchors and Pipelines II	Tuesday June 7	Y9
10-04-01	Bucket, Gravity Foundations and Caissons	Tuesday June 7	Y9

11 Petroleum Technology

11-01-01	Well Drilling Technology I	Wednesday June 8	Y10
11-01-02	Well Drilling Technology II	Thursday June 9	Y11
11-02-01	Well Drilling Fluids and Hydraulics I	Monday June 6	Y10
11-02-02	Well Drilling Fluids and Hydraulics II	Monday June 6	Y10
11-02-03	Well Drilling Fluids and Hydraulics III	Tuesday June 7	Y10
11-03-01	Well Control and Managed Pressure Drilling I	Thursday June 9	Y11
11-03-02	Well Control and Managed Pressure Drilling II	Thursday June 9	Y11
11-04-01	Data Science and Machine Learning Applications in Drilling I	Thursday June 9	Y10
11-04-02	Data Science and Machine Learning Applications in Drilling II	Thursday June 9	Y10
11-04-03	Data Science and Machine Learning Applications in Drilling III	Thursday June 9	Y10
11-05-01	Well Cementing Theory and Practice I	Tuesday June 7	Y10
11-05-02	Well Cementing Theory and Practice II	Wednesday June 8	Y10
11-05-03	Well Cementing Theory and Practice III	Wednesday June 8	Y10
11-05-04	Well Cementing Theory and Practice IV	Thursday June 9	Y10
11-06-01	Integrity of Well Barriers	Tuesday June 7	Y10
11-07-01	Permanent Well Abandonment	Tuesday June 7	Y10
11-08-01	Production Systems and Subsea Operations	Wednesday June 8	Y11
11-10-01	Development of Unconventional Reservoirs I	Monday June 6	Y11
11-10-02	Development of Unconventional Reservoirs II	Monday June 6	Y11
11-10-03	Development of Unconventional Reservoirs III	Tuesday June 7	Y11
11-10-04	Development of Unconventional Reservoirs IV	Tuesday June 7	Y11
11-11-01	Advances in Carbon Capture Utilization and Storage	Wednesday June 8	Y11
11-12-01	Sustainability and Green Transition in Petroleum Industry I	Tuesday June 7	Y11
11-12-02	Sustainability and Green Transition in Petroleum Industry II	Tuesday June 7	Y11
11-13-01	Digitalization of Subsurface, Well Systems, Subsea Systems and Operations	Wednesday June 8	Y11

12 Honoring Symposium for Professor Günther F. Clauss on Hydrodynamics and Ocean Engineering

12-01-01	Hydrodynamics, Seakeeping and Global Performance I	Tuesday June 7	Y12
12-01-02	Hydrodynamics, Seakeeping and Global Performance II	Tuesday June 7	Y12
12-02-01	Extreme Waves and their Impact on Ships and Structures	Tuesday June 7	Y12
12-03-01	Deterministic Wave and Motion Prediction	Tuesday June 7	Y12

