

# PROGRAM AT A GLANCE

## Saturday, June 16 (pg 26)

### Short Courses

- **WEC Design Practices and Tools**  
09:00 – 17:00  
Dusseldorf
- **Dynamics and Vibrations in Offshore Structures**  
09:00 – 17:30  
Munich

### Outreach

- **Team Building Exercise**  
17:00 – 19:00  
Dusseldorf
- **Welcome Dinner**  
19:00 onwards  
Off-site

## Sunday, June 17 (pg 27)

### Outreach

- **Welcome & Introductions**  
**Industry Presentations**  
08:30 – 17:00  
Estrasburgo

### Short Courses

- **Numerical and Experimental Dynamic Analysis of Offshore Wind Turbines**  
09:00 – 17:00  
Frankfurt

### Welcome Reception

19:00 – 20:30  
Venecia / Milán / Roma

## Monday, June 18 (pg 28)

**Opening Ceremony and Keynote Plenaries** 08:30 – 10:00  
Londres / Bristol / Oxford

### Welcome and Opening Remarks

Dr. Antonio Souto-Iglesias, Conference Chair, OMAE 2018  
Dr. Raúl Guanache García, Conference Chair, OMAE 2018  
Dr. Francisco Huera-Huarte, Conference Chair, OMAE 2018  
Dr. Solomon Yim, Technical Program Chair, OMAE 2018  
Prof. Krish Thiagarajan Sharman, OMAE Division Chair  
Julio Gómez-Pomar, Secretary of State for Public Works, Transport and Infrastructure

### Keynote Plenary One

#### Reinventing Oil&Gas

Héctor Américo González Gómez, *Executive Director Technical Development & HSE, Repsol*

### Awards

**Refreshment Break** 10:00 – 10:30 Venecia / Milán / Roma

**Keynote Plenaries (Continued)** 10:30 – 12:00  
Londres / Bristol / Oxford

### Keynote Plenary Two

#### Decommissioning in the Norwegian North Sea – Turning Liabilities into Opportunities

Vidar Nedrebo, *Managing Director, Repsol Norge AS*

### Keynote Plenary Three

#### Mooring Systems, Current and Future Market Overview

Marcos Bergua Toledo,  
*Commercial Director VSSL & VCSA, VICINAY MARINE SLs*

### OMAe 2019 Presentation

Prof. Atilla Incecik, *Conference Chair, OMAE 2019*

**Opening Lunch** 12:00 – 13:30

Buffet Madrid / France-Madrid Gallery / Lyon / Toulouse

**Concurrent Sessions** 13:30 – 15:00

- |      |        |  |
|------|--------|--|
| OT   | 1-1-3  | Installation, Operation and Integrity Assessment                               |
| OT   | 1-4-1  | Design Optimization, Risk Analysis and Mitigation                              |
| SSR  | 2-12-4 | Structural Analysis and Optimization IV  |
| SSR  | 2-13-1 | Risk Analysis and Management I   |
| MAT  | 3-2-1  | Fatigue Performance I  |
| PRS  | 4-1-1  | Flexible Pipes I   |
| PRS  | 4-3-1  | Mechanics I  |
| OE   | 6-3-1  | Modeling Techniques  |
| OE   | 6-15-1 | Session I Development Methodologies and Novel Designs                          |
| CFD  | 8-8-1  | CFD and FSI Opening Session and Keynote on Digitalization and Machine Learning |
| ORE  | 9-2-1  | Verification and Validation  |
| ORE  | 9-3-1  | Heaving and Pitching Wave Energy Converters                                    |
| PT   | 11-5-1 | Petroleum Production Systems Design and Operation I                            |
| PT   | 11-6-1 | Well Drilling Fluids and Hydraulics I  |
| HCGS | 12-1-1 | Wave Spectral and Probabilistic Models   |
| HCGS | 12-5-1 | Ultimate Strength I  |
| HBM  | 13-1-1 | Wave Body Interaction I  |

**Refreshment Break** 15:00 – 15:30 Venecia / Milán / Roma

**Concurrent Sessions** 15:30 – 17:30

- |      |         |  |
|------|---------|--|
| OT   | 1-1-4   | Spars, FPSOs and Multi-Column Floaters I   |
| OT   | 1-4-2   | Simulation of Floaters and Moorings  |
| SSR  | 2-7-1   | Reliability of Mooring and Riser Systems   |
| SSR  | 2-12-3  | Structural Analysis and Optimization III   |
| MAT  | 3-1-1   | Fracture Assessment - Analytical Methods   |
| PRS  | 4-1-7   | Umbilicals and Cables I  |
| PRS  | 4-3-5   | Thermo-Mechanical  |
| OE   | 6-4-1   | Towed and Undersea Cables and Pipes, Mooring, and Buoy Technology  |
| OE   | 6-15-2  | Sessions II-III: Embedded Architecture for Robotic Vehicles and Underwater Communication Systems. Sensors, Processing Algorithms, Distributed Platform and Software Architecture |
| CFD  | 8-8-2   | Optimization, Big Data and Machine Learning  |
| ORE  | 9-1-4   | Floating Wind Turbines: Numerical Modelling II   |
| ORE  | 9-3-2   | Oscillating Water Column   |
| PT   | 11-6-2  | Well Drilling Fluids and Hydraulics II   |
| PT   | 11-11-1 | Human Factor in Oil and Gas Operations   |
| HCGS | 12-1-3  | Wave Spectral and Probabilistic Models and Engineering Applications I  |
| HCGS | 12-8-1  | Maritime Safety and Human Factors I  |
| HBM  | 13-1-2  | Wave Body Interaction II   |

**Afternoon Lecture Series** 17:45 – 18:30 Londres

**Prospects and Challenges in Arctic and Ice Technology**  
Dr. Walter Kuehnlein, *Managing Director, sea2ice Ltd & Co. KG*

**Afternoon Drinks** 18:30 – 19:30 Venecia / Milán / Roma

## Tuesday, June 19 (pg 40)

**Concurrent Sessions** 08:30 – 10:00

- |      |         |  |
|------|---------|--|
| OT   | 1-1-5   | Fixed Structures and Jack-up Rigs                                      |
| SSR  | 2-8-1   | Reliability of Renewable Energy Systems                                |
| SSR  | 2-13-2  | Risk Analysis and Management II  |
| MAT  | 3-3-1   | Fatigue and Fracture Assessment  |
| PRS  | 4-1-2   | Flexible Pipes II  |
| PRS  | 4-3-4   | VIV/Fatigue  |
| OSU  | 5-1-1   | New Concepts for Ocean Space Utilization                               |
| OE   | 6-8-1   | Fluid-Structure, Multi-Body and Wave-Body Interaction I                |
| OE   | 6-12-1  | Ocean Engineering Technology I   |
| PAT  | 7-2-1   | Arctic Sea Transportation  |
| CFD  | 8-1-1   | Maneuvering  |
| ORE  | 9-1-1   | Floating Wind Turbines: Numerical Modelling I                          |
| ORE  | 9-4-2   | Case Studies and Field Tests   |
| PT   | 11-10-1 | Drilling Geomechanics  |
| HCGS | 12-1-2  | Wave Spectral and Probabilistic Models and Engineering Applications II |
| HCGS | 12-7-1  | Structural Reliability and Risk-Based Maintenance I                    |
| HBM  | 13-1-3  | Wave Body Interaction III  |

**Refreshment Break** 10:00 – 10:30 Venecia / Milán / Roma

**Concurrent Sessions** 10:30 – 12:00

- |      |        |   |
|------|--------|---|
| OT   | 1-2-1  | Model Testing   |
| SSR  | 2-2-1  | Probabilistic and Spectral Wave Models  |
| SSR  | 2-11-1 | Ultimate Strength I   |
| MAT  | 3-4-1  | Fatigue and Fracture Performance in Sour Service                                    |
| PRS  | 4-1-3  | Flexible Pipes III  |
| PRS  | 4-3-7  | ECA and Inspection  |
| OSU  | 5-2-1  | Aquaculture Structures in Waves and Current   |
| OE   | 6-12-2 | Ocean Engineering Technology II   |
| OE   | 6-15-3 | Session IV Dynamic and Kinematic Issues in Robotic Vehicles, Modelling, and Control |
| PAT  | 7-3-1  | Structures in Ice   |
| CFD  | 8-1-2  | CFD, Waves  |
| ORE  | 9-2-6  | Installation, O&M, and Case Studies   |
| ORE  | 9-4-5  | Analytical, Numerical and Experimental Studies II                                   |
| PT   | 11-6-3 | Well Drilling-Fluids and Hydraulics-III   |
| HCGS | 12-4-1 | Renewable Energy Offshore I   |
| HCGS | 12-7-2 | Structural Reliability and Risk-Based Maintenance II                                |
| HBM  | 13-3-1 | Second-order Loads and Response   |

**Lunch** 12:00 – 13:30

Buffet Madrid / France-Madrid Gallery / Lyon / Toulouse

**Concurrent Sessions** 13:30 – 15:00

- |      |        |   |
|------|--------|---|
| OT   | 1-2-2  | Mooring System Design and Analysis I  |
| OT   | 1-3-4  | Fluid-Structure Interaction   |
| SSR  | 2-1-2  | Abnormal or Rogue Waves II  |
| SSR  | 2-11-2 | Ultimate Strength II  |
| MAT  | 3-5-1  | Materials Performance in Harsh Conditions   |
| PRS  | 4-1-4  | Flexible Pipes IV   |
| OSU  | 5-2-2  | Aquaculture Technology I  |
| OE   | 6-1-1  | Manoeuvring   |
| OE   | 6-15-4 | Session IV (cont.) Dynamic and Kinematic Issues in Robotic Vehicles, Modelling, and Control |
| PAT  | 7-4-1  | Vessels in Ice including Maneuvring   |
| CFD  | 8-3-1  | Risers and Pipelines I  |
| ORE  | 9-1-2  | Floating Wind Turbine Experimental Testing and Validation II                                |
| ORE  | 9-5-1  | Turbine and Efficiency I  |
| PT   | 11-6-4 | Well Fluids and Hydraulics IV   |
| HCGS | 12-4-2 | Renewable Energy Offshore II  |
| HCGS | 12-7-3 | Structural Reliability and Risk-Based Maintenance III                                       |
| HBM  | 13-5-1 | Hydroelasticity   |

**Refreshment Break** 15:00 – 15:30 Venecia / Milán / Roma

**Concurrent Sessions** 15:30 – 17:30

- |      |        |   |
|------|--------|---|
| OT   | 1-1-6  | Spars, FPSOs and Multi-Column Floaters II                   |
| OT   | 1-4-4  | Structural Analysis and Simulation                          |
| SSR  | 2-1-1  | Abnormal or Rogue Waves I                                   |
| SSR  | 2-11-3 | Ultimate Strength III                                       |
| MAT  | 3-2-2  | Fatigue Performance II                                      |
| PRS  | 4-3-3  | Installation  |
| OSU  | 5-2-3  | Aquaculture Technology II                                   |
| OE   | 6-2-2  | Nonlinear and Extreme Waves, Waves from Wind                |
| PAT  | 7-5-1  | Full Scale Measurements and Ice Model Tests                 |
| CFD  | 8-3-2  | Risers and Pipelines II                                     |
| ORE  | 9-1-6  | Floating Wind Turbine Experimental Testing and Validation I |
| ORE  | 9-5-3  | Design and Resources  |
| PT   | 11-7-1 | Well Plugging and Abandonment                               |
| HCGS | 12-4-3 | Renewable Energy Offshore III                               |
| HCGS | 12-7-4 | Structural Reliability and Risk-Based Maintenance IV        |
| HBM  | 13-4-1 | Floating Foundations for Wind Turbines                      |

**Afternoon Lecture Series** 17:45 – 18:30 Londres

**New Insights on the Vortex-induced Vibrations of Long Flexible Cylinders**

Dr. Kim Vandiver, *Professor of Mechanical and Ocean Engineering, Dean for Undergraduate Research, Director, Office of Experiential Learning, Massachusetts*

**Afternoon Drinks** 18:30 – 19:30 Venecia / Milán / Roma

**Basque County Presentation**  
16:00 – 18:00  
Marsella

## Wednesday, June 20 (pg 58)

### Concurrent Sessions 08:30 – 10:00

OT	1-2-3	Dynamic Positioning
OT	1-5-3	FLNG Technology
SSR	2-3-1	Probabilistic Response Models I
SSR	2-4-1	Fatigue and Fracture Reliability I
MAT	3-8-1	Life Extension and Integrity Assessment
PRS	4-1-5	Flexible Pipes V
OSU	5-3-1	Deepsea Mining and Underwater Technology
OE	6-8-2	Fluid-Structure, Multi-Body and Wave-Body Interaction II
OE	6-13-1	Metocean I : Measurement and Modelling of Currents and Solitons
PAT	7-6-1	Ice Management and Operations in Ice
CFD	8-1-3	Multi-hull
ORE	9-1-5	Offshore Wind Turbine Hydrodynamics
OG	10-1-1	Seabed Interaction, Processes and Properties
PT	11-1-2	Arctic Exploration and Drilling Challenges
HCGS	12-2-1	Floater Dynamics and Hydrodynamics I
HCGS	12-5-2	Ultimate Strength II
HBM	13-7-1	Gap and Moonpool Resonance I

### Refreshment Break 10:00 – 10:30 Venecia / Milán / Roma

### Concurrent Sessions 10:30 – 12:00

OT	1-2-4	Mooring System Design and Analysis II
OT	1-6-1	Wave-Induced Global Load and Response
SSR	2-3-2	Probabilistic Response Models II
SSR	2-4-2	Fatigue and Fracture Reliability II
MAT	3-9-1	Pipeline Engineering Critical Assessment
PRS	4-1-6	Flexible Pipes VI
OSU	5-5-1	Floating Offshore Wind Turbine
OE	6-8-3	Fluid-Structure, Multi-Body and Wave-Body Interaction III
OE	6-13-2	Metocean II : Joint Probability and Environmental Loads
PAT	7-8-1	Numerical Ice Modeling I
CFD	8-1-4	Radiation, Cavitation
ORE	9-2-3	Design/Siting Methods and Analysis I
OG	10-2-1	Anchors I
PT	11-6-5	Well Drilling Fluids and Hydraulics V
HCGS	12-2-2	Floater Dynamics and Hydrodynamics II
HCGS	12-5-5	Ultimate Strength III
HBM	13-7-2	Gap and Moonpool Resonance II

### Wednesday Lunch 12:00 – 13:30

Buffet Madrid / France-Madrid Gallery / Lyon / Toulouse

### Concurrent Sessions 13:30 – 15:00

OT	1-6-3	Industry Collaboration towards Confident CFD Applications on Offshore Engineering
OT	1-7-1	Wave Loading and Motions in Extreme Seas I
SSR	2-4-3	Fatigue and Fracture Reliability III
SSR	2-9-1	Extreme Loading and Responses I
MAT	3-10-1	Integrity Assessment of High Strength Steels
PRS	4-3-8	Mechanics III
OSU	5-5-2	Wave Energy Converter and Others
OE	6-2-1	Wave-structure Interactions I
OE	6-13-3	Metocean III : Impact of Cyclones Typhoons or Hurricanes
PAT	7-8-2	Numerical Ice Modeling II
CFD	8-1-5	Application
ORE	9-2-4	Design/Siting Methods and Analysis II
OG	10-5-1	Bucket Foundations and Suction Caissons
PT	11-6-6	Well Fluids and Hydraulics VI
HCGS	12-2-3	Floater Dynamics and Hydrodynamics III
HCGS	12-5-4	Structural Integrity and Monitoring
HBM	13-10-1	Seakeeping

### Refreshment Break 15:00 – 15:30 Venecia / Milán / Roma

### Concurrent Sessions 15:30 – 17:30

OT	1-3-1	Nonlinear Wave and Wave Effects
OT	1-7-2	Wave Loading and Motions in Extreme Seas II
SSR	2-9-2	Extreme Loading and Responses II
SSR	2-12-1	Structural Analysis and Optimization I
PRS	4-3-6	Pipe-Soil Interaction
OSU	5-6-1	Behaviours of Structure in Tsunami and Port Management
OE	6-2-3	Wave-structure Interactions II
OE	6-13-4	Metocean IV : Waves and Long Term Climate Trends
PAT	7-8-3	Numerical Ice Modeling III
CFD	8-2-1	Free Surface Loading and Structure Interaction
CFD	8-4-1	VIV Physics I
ORE	9-2-2	Numerical and Experimental Studies
OG	10-3-1	Pile Foundations I
PT	11-3-1	Inflow Control Technology in Reservoir Management
HCGS	12-2-4	Floater Dynamics and Hydrodynamics IV
HCGS	12-5-3	Fatigue Strength
HBM	13-9-1	Sloshing in Tanks

### Afternoon Lecture Series 17:45 – 18:30 Londres

#### Some Recent Developments in 3-d Wave Diffraction

#### Methods: Applications and Numerical Aspects

Dr. Johannes Pinkster, Professor Emeritus of Ship Hydrodynamics, Delft University of Technology Consultant, Pinkster Marine Hydrodynamics (PMH bv)

### Conference Banquet 19:30 – 24:00 Palacio del Negralejo

Transportation from Marriott: 19:30 – 20:00

Banquet: 20:00 – 24:00

## Thursday, June 21 (pg 76)

### Outreach Breakfast / Feedback Session 07:30 – 10:00 Paris

### Concurrent Sessions 08:30 – 10:00

OT	1-3-2	Numerical Methods and Experiments
SSR	2-10-1	Collision and Crashworthiness I
SSR	2-12-2	Structural Analysis and Optimization II
PRS	4-2-1	Rigid Risers - Design
PRS	4-3-2	Mechanics II
OSU	5-7-1	Environmental Assessment for Marine Renewable Energy
OE	6-1-2	Powering
OE	6-8-4	Fluid-Structure, Multi-Body and Wave-Body Interaction IV
CFD	8-2-2	Free Surface Modeling
CFD	8-4-2	VIV Physics II
ORE	9-4-4	Site Selection, Hybrid Devices and Farms
OG	10-6-1	Spudcans and Shallow Foundations
PT	11-2-1	Drilling Mechanics I
PT	11-4-1	Integrity of Well Barriers - Part 1
HCGS	12-3-1	Ship Maneuvering and Control I
HCGS	12-9-1	Offshore Floating Structures

### Refreshment Break 10:00 – 10:30 Venecia / Milán / Roma

### Concurrent Sessions 10:30 – 12:00

OT	1-3-3	Platform/Ship Motions
SSR	2-10-2	Collision and Crashworthiness II
PRS	4-2-2	Rigid Risers - Analysis
PRS	4-5-1	Flow Assurance I
OSU	5-9-1	Coastal Zone Utilization and Management
OE	6-1-4	Seakeeping - Motions and Added Resistance in Waves
OE	6-8-5	Fluid-Structure, Multi-Body and Wave-Body Interaction V
PAT	7-9-1	SKT Project I
CFD	8-2-3	Particle-Based Free Surface Modeling
CFD	8-4-3	VIV Suppression I
ORE	9-3-3	Model Development, Verification and Validation
ORE	9-6-1	Thermal, Hybrid and Others: Analysis and Design
OG	10-7-1	Pipelines
PT	11-1-1	Multiphase Flow for Offshore Production
PT	11-4-2	Integrity of Well Barriers - Part 2
HCGS	12-3-2	Ship Maneuvering and Control II
HCGS	12-9-2	Strength of Offshore Structures and Equipment

### Technical Session Organizers' Lunch 12:00 – 13:30

Buffet Madrid / France-Madrid Gallery / Lyon / Toulouse

### Concurrent Sessions 13:30 – 15:00

SSR	2-6-1	Well Integrity and Reliability Assessment
PRS	4-2-3	Rigid Risers - VIV and Fatigue
PRS	4-5-2	Flow Assurance II
OE	6-1-5	Seakeeping - Parametric Roll and Error Statistics
OE	6-3-2	Wave Loads
OE	6-3-4	Ship Dynamics
OE	6-14-1	Coastal Engineering I
PAT	7-9-2	SKT Project II
CFD	8-6-1	Advanced Computations & Software Development
ORE	9-3-5	Control and New Design Concept
ORE	9-5-2	Turbine and Efficiency II
OG	10-8-1	Anchors II
PT	11-1-3	Drilling Technology Evaluation
PT	11-5-2	Petroleum Production Systems Design and Operation II
HCGS	12-3-3	Ship Maneuvering and Control III
HCGS	12-6-1	Collision and Crashworthiness I

### Refreshment Break 15:00 – 15:30 Venecia / Milán / Roma

### Concurrent Sessions 15:30 – 17:30

SSR	2-12-5	Structural Analysis and Optimization V
PRS	4-4-1	Subsea Structures and Equipment
PRS	4-6-1	Innovative Technologies for Deepwater Low-Cost Production
OE	6-6-1	Unsteady Hydrodynamics Vibrations, Acoustics, and Propulsion
OE	6-7-2	Hydrodynamics and Welded Joints
OE	6-9-1	Environment, Aquaculture and Very Large Structures
OE	6-14-2	Coastal Engineering II
PAT	7-9-3	SKT Project III
CFD	8-7-1	Verification, Validation and Best Practices
ORE	9-4-1	Analytical, Numerical and Experimental Studies I
ORE	9-6-2	Thermal, Hybrid and Others: Novel Concepts
OG	10-4-1	Pile Foundations II
PT	11-8-1	Innovations in Drilling, Production and Transportation
HCGS	12-3-4	Ship Maneuvering and Control IV
HCGS	12-6-2	Collision and Crashworthiness II

### Farewell Reception 17:30 – 19:30 Venecia / Milán / Roma

Hosted by OMAE 2019

## Friday, June 22 (pg 94)

### Technical Tour

Technical Tour to the CEHIPAR ocean basin  
See pg 94

### Wi Fi Network

**Network:** Marriott Guest /  
Marriott Conference  
**Password:** Madrid



### Registration Italy-Germany Gallery

Sunday, June 17	13:00 – 20:00
Monday, June 18	07:00 – 17:00
Tuesday, June 19	08:00 – 17:00
Wednesday, June 20	08:00 – 17:00
Thursday, June 21	08:00 – 17:00

### Exhibition Venecia / Milán / Roma

Sunday, June 17	19:00 – 20:30
(Welcome Reception amongst Exhibits)	
Monday, June 18	10:00 – 19:30
Tuesday, June 19	10:00 – 19:30
Wednesday, June 20	08:30 – 17:00
Thursday, June 21	08:30 – 10:30

### Daily Program Handout

An updated daily program handout will be available at the Registration Desk the mornings of Tuesday, Wednesday and Thursday. The handout will incorporate any last-minute program changes and show the time-synchronized order of presentations in each session for that day. You can use this handout as a general reference and to easily plan your personal attendance schedule for the day. The program changes will also be updated on the updated on the Conference App.

### Concurrent Sessions Abbreviation Key

CFD	CFD and FSI
HBM	Honoring Symposium for Professor Bernard Molin on Marine and Offshore Hydrodynamics
HCGS	Honoring Symposium for Professor Carlos Guedes Soares on Marine Technology and Ocean Engineering
MAT	Materials Technology
OE	Ocean Engineering
OG	Off shore Geotechnics
ORE	Ocean Renewable Energy
OSU	Ocean Space Utilization
OT	Offshore Technology
PAT	Polar and Arctic Sciences and Technology
PRS	Pipelines, Risers, and Subsea Systems
PT	Petroleum Technology
SSR	Structures, Safety and Reliability

See the Technical Program (starting on pg 30) for individual session room assignments.