Monday, June 18 (pg 28)

Opening Ceremony and Keynote Plenaries 08:30 – 10:00

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

Keynote Plenary One
Reinventing Oil&Gas
Héctor Antonio 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 Nedreba, Managing Director, Repsol Norge AS

Keynote Plenary Three
Mooring Systems, Current and Future Market Overview
Marcos Burgos Toledo
Commercial Director VSSL & VCSA, VICINAY MARINE Stl

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 2-1-2 Structural Analysis and Optimization IV
SSR 2-1-3 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 6-5-1 Session Development Methodologies and Novel Designs
CFD 6-8-1 CFD and FSI Opening Session and Keynote on Digitalization and Machine Learning
ORE 9-2-1 Verification and Validation
ORE 9-3-1 Heating and Pitching Wave Energy Converters
PT 15-1-1 Petroleum Production Systems Design and Operation I
PT 16-6-1 Well Drilling Fluids and Hydraulics I
HCG 12-1-1 Wave Spectral and Probabilistic Models
HCG 12-2-1 Ultimate Strength I
HBM 13-1-1 Body Interaction I

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

Concurrent Sessions 15:30 – 17:30

OT 1-1-4 Spurs, FPSOs and Multi-Column Floaters I
OT 1-4-2 Simulation of Floaters and Moorings
SSR 2-1-1 Reliability of Mooring and Riser Systems
SSR 2-1-3 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
CFD 8-8-2 Optimization, Big Data and Machine Learning
OE 9-1-1 Floating Wind Turbines: Numerical Modelling II
ORE 9-3-2 Oscillating Water Column
PT 11-6-2 Well Drilling Fluids and Hydraulics II
PT 11-7-1 Human Factor in Oil and Gas Operations
HCG 12-1-2 Wave-Spectral and Probabilistic Models and Engineering Applications I
HCG 12-8-1 Maritime Safety and Human Factors I
HBM 13-2-1 Body Interaction II

Afternoon Lecture Series 17:45 – 18:30 Londres
Prospects and Challenges in Arctic and Ice Technology
Dr. Walter Kuehnlein, Managing Director, seis2Ice 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 2-1-1 Reliability of Renewable Energy Systems
SSR 2-1-3 Risk Analysis and Management II
MAT 3-3-1 Fatigue and Fracture Assessment
PRS 4-1-2 Flexible Pipes II
PRS 4-3-3 WV/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
HCG 12-12-1 Wave Spectral and Probabilistic Models and Engineering Applications II
HCG 12-7-1 Structural Reliability and Risk-Based Maintenance I
HBM 13-1-1 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 2-1-1 Probabilistic and Spectral Wave Models
SSR 2-3-1 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 6-13-3 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 9-4-3 Analytical, Numerical and Experimental Studies II
PT 11-6-3 Well Drilling-Fluids and Hydraulics-III
HCG 12-4-1 Renewable Energy Offshore I
HCG 12-7-2 Structural Reliability and Risk-Based Maintenance II
HBM 13-1-1 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 1-2-4 Fluid-Structure Interaction
SSR 2-1-2 Abnormal or Rogue Waves II
SSR 2-1-3 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 Maneuvering
OE 6-15-4 Session IV (Cont.) Dynamic and Kinematic Issues in Robotic Vehicles, Modelling, and Control
PAT 7-4-1 Vessels
CFD 8-3-1 Risers and Pipelines I
ORE 9-1-1 Floating Wind Turbine Experimental Testing and Validation I
ORE 9-4-2 Risers and Pipelines II
PT 11-6-4 Well Fluids and Hydraulics IV
HCG 12-4-2 Renewable Energy Offshore II
HCG 12-7-3 Structural Reliability and Risk-Based Maintenance II
HBM 13-1-1 Hydroelasticity

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

Concurrent Sessions 15:30 – 17:30

OT 1-1-6 Spurs, FPSOs and Multi-Column Floaters II
OT 1-4-4 Structural Analysis and Simulation
SSR 2-1-1 Abnormal or Rogue Waves I
SSR 2-1-3 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 II
ORE 9-5-3 Design and Resources
PT 11-7-1 Well Plugging and Abandonment
HCG 12-3-3 Renewable Energy Offshore III
HCG 12-7-4 Structural Reliability and Risk-Based Maintenance III
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 Institute of Technology

Afternoon Drinks 18:30 – 19:30 Venecia / Milán / Roma
### PROGRAM AT A GLANCE

#### 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 3-4-1** Life Extension and Integrity Assessment
- **PRS 4-1-5** Flexible Pipes I
- **OSU 5-3-1** Deepsea Mining and Underwater Technology
- **OE 6-8-2** Fluid-Structure, Multi-body and Wave-Body Interaction II
- **EO 6-13-1** Metocean I: Measurement and Modelling of Currents and Solitons

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

#### 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 I
- **SSR 2-10-1** Collision and Crushworthiness 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 Modelling
- **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 I
- **HCGS 12-3-1** Ship Maneuvering and Control I
- **HCGS 12-9-1** Offshore Floating Structures I

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

#### Friday, June 22 (pg 94)

**Technical Tour**

**Technical Tour to the CEBIPAR ocean basin** See pg 94

**Wi Fi Network**

**Network:** Marriott Guest / Marriott Conference

**Password:** Madrid

#### 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

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**OE** Ocean Engineering

**OG** Off shore Geotechnics

**ORE** Ocean Renewable Energy

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**OT** Offshore Technology

**PAN** Polar and Arctic Sciences and Technologies

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**PT** Petroleum Technology

**SSR** Structural Stability and Safety Evaluation

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

#### 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

**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

#### Conference Banquet

- **19:30 – 24:00** Palace del Negralejo

#### Farewell Reception

- **17:30 – 19:30** Venecia / Milán / Roma

Hosted by OMAE 2019

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### Conference Session Themes

#### Afternoon Lecture Series

14:15 – 18:30

Some Recent Developments in 3-d Wave Diffraction Methods: Applications and Numerical Aspects

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

#### Conference Banquet

19:30 – 24:00

Palace del Negralejo

Transportation from Marriott: 19:30 – 20:00

Banquet: 20:00 – 24:00

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