

8th International Conference

OFFSHORE FOUNDATIONS



26-28 JUNE 2018 | SWISSÔTEL BREMEN | BREMEN, GERMANY

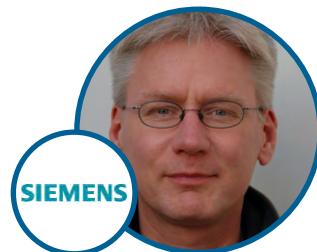
Project experience with design, installation and manufacturing of offshore foundations



Marcus Klose
Head of Section Steel Structures
DNV GL, Germany



Ursula Smolka
Senior Engineer
Ramboll, Germany



Marc Seidel
Senior Key Expert
Support Structures
Siemens Gamesa, Germany



Marcel Van Bergen
Director
Boskalis Offshore Energy,
The Netherlands



Tale Kristine Ulstein
Senior Engineer
Statoil, Norway



Dariusz Eichler
Senior Lead Structural Engineer
Vattenfall, Denmark

2 Conference Days

4 Interactive Workshops

23+

Expert
Speakers



Roundtable
Sessions



Networking
Sessions

THE CONFERENCE AIMS TO

-  Discuss **design optimization** of XL monopiles and jackets for cost-reduction in deeper waters
-  Discover the most recent applications of **suction buckets** and **floating foundations**
-  Explore the newest results on **damping and soil-structure** interactions in offshore windfarms
-  Enhance **structural reliability** of your foundations to ensure a longer lifetime for your offshore windfarm
-  Improve foundation **monitoring** to manage maintenance costs
-  Learn about **practical case studies** from key players to reduce costs in your windfarm
-  Hear the **updates on current offshore wind projects** from international experts
-  Explore new **global and European offshore wind markets**

INTERACTIVE SESSIONS

-  **Who is Who** | Discover relevant industry contacts. The Who's Who wall will help you identify who you want to meet at the conference.
-  **Match and Win** | Identify your group while at the same time getting to know many of your peers in a short amount of time.
-  **Panel Discussion** | Steer this interactive panel discussion with your questions to our panel of experts and use the opportunity for further discussion.
-  **Evening Get-Together** | Join our evening get-together and take this opportunity to network and make new business contacts. Or take the time to relax after completing your first event day.
-  **Round Table Sessions** | Choose your main discussion topic and deepen your knowledge in close dialogue with experts by pointed questions.





Marc Seidel
Senior Key Expert
Support Structures
Siemens Gamesa, Germany



Marcel Van Bergen
Director
Boskalis Offshore Energy,
The Netherlands



Martin Achmus
Head of Institute
Leibniz University Hannover, Germany



Mareike Leimeister
Research Associate
Fraunhofer Institute, Germany



Colin Emmet
Engineering Manager
SNC Lavalin, UK



David Carrascosa
Chief Technology Officer
Saitec, Spain



Claus Kramhøft
Chief Specialist
COWI, Denmark



Vegard Nedrevaag
Project Engineering Manager
Technip FMC, Norway



Wout Weijtjens
R&D Engineer
OWI Lab, Belgium



Dr. Sven Voormeeren
Head of Primary Structure Design
Siemens Gamesa, The Netherlands



Edwin Van de Brug
Regional Manager
**Van Oord Offshore Wind
Projects**, The Netherlands



Frank Ostermann
Head of Offshore Loads and
Structural Dynamics
JBO, Germany



Christof Devriendt
RD&I Coordinator
OWI Lab, Belgium



Dirk Pulles
Manager Renewables
KCI, The Netherlands



Muriel Van der Hulst
Development Manager
Boskalis, The Netherlands



SPEAKERS 2018



Bruno Geschier
Chief Sales & Marketing Officer
IDEOL, France



Tale Kristine Ulstein
Senior Engineer
Statoil, Norway



Dariusz Eichler
Senior Lead Structural Engineer
Vattenfall, Denmark



Feargal Brennan
Director of Energy & Power
Cranfield University, UK



Marcus Klose
Head of Section Steel Structures
DNVGL, Germany



Michael Stephenson
Offshore Wind Associate
Carbon Trust, UK



Denis Matha
Chief Consultant
Ramboll, Germany



Boudewijn van Gelder
Manager R&D
KCI, The Netherlands



Ross McAdam
Associate Professor
Oxford University, UK



Ursula Smolka
Senior Engineer
Ramboll, Germany



Expert speaker
Bladt, Denmark



Daniel Bartmann
Team Leader Civil Engineering
Innogy, Germany



09:00 Registration and welcome coffee



Who is Who | Discover who else is participating in the conference. The matchmaking picture wall will help you identify who you want to meet at the conference. In cooperation with **FUJIFILM**

09:45 Chairman's opening

Foundation design: Insights on current projects

10:00 **XL monopiles: PISA II update**

- Impact of new PISA design methods on XL monopiles
- Validation of approach for increased range of soils
- Application to layered stratigraphy
- Next challenges

 **Ross McAdam**, Associate Professor, **Oxford University**, UK

10:30 **Bigger and lighter. Larger turbines and lighter foundations**

- Overview of foundation design at Triton Knoll
- Efficient design for bigger turbines
- Manufacturing lighter monopiles to deliver cost reduction
- Future trends for monopile foundations in deeper waters and larger turbines

 **Colin Emmet**, Engineering Manager, **SNC Lavalin**, UK

11:00 **Match and Win**



Identify your group while at the same time getting to know many of your peers in a short amount of time.

11:30 Refreshment break and networking

12:00 **Benefits of frequency domain load analysis in monopile foundation design process**

- Frequency domain (FD) method description for FLS offshore wind turbine load simulation
- Acceleration of standard monopile design process using FDA approach
- Demonstration of benefit in real projects
- Further application examples of FD analysis on existing offshore wind foundations that reveals lifetime extension potential



Frank Ostermann, Head of Offshore Loads and Structural Dynamics, **JBO**, Germany

12:30 **TANDEM update: Towards an advanced design of large monopiles**

- A reference wind turbine system with XL monopile
- Challenges of XL monopiles
- Hydrodynamic loads – engineering models versus high-fidelity tools
- Investigation of the effects of diameter and installation method



Mareike Leimeister, Research Associate, **Fraunhofer Institute**, Germany

13:00 **Bearing behaviour and geotechnical design of suction buckets**

- Installation of suction buckets
- Multipods: Behaviour under tensile loading
- Monopods: Behaviour under combined loading
- Design recommendations



Martin Achmus, Head of Institute, **Leibniz University Hannover**, Germany

13:30 Networking lunch

15:00 **Roundtable Session**

-  **A** | New markets: what does it mean for foundations?
B | Optimizing design for deeper waters – what's next?
C | Cost reduction in installation and logistics

Progress of floating foundations

15:30 **Floating farms, a commercial reality**

- How mature is the floating wind market today? Current floating wind projects
- What are the technological challenges for floating wind from a designer's perspective?
- Status of standards and guidelines for floating wind
- Insights from Ramboll's Carbon Trust Floating JIP and H2020 R&D projects



Denis Matha, Senior Engineer, **Ramboll**, Germany

16:00 **Hywind Scotland Pilot Park – The world's first floating wind park**

- The Hywind history and the project
- Installing Hywind scotland – project scope
- Project experience – engineering and execution
- Hywind - technology status and experience from the first year of operations



Vegard Nedrevaag, Project engineering manager, **Technip FMC**, Norway

 **Tale Kristine Ulstein**, Senior Engineer, **Statoil**, Norway

16:45 **Ideol's Damping Pool: Two demonstrators and two unique experiences**

- Presentation of Ideol's two landmark projects: Floatgen and Eolmed
- Presentation of each project's key differences and key challenges
- Initial learning experiences
- Way forward



Bruno Geschier, Chief Sales and Marketing Officer, **IDEOL**, France

17:15 Closing remarks of conference chairperson.

End of conference day one

18:00 **Evening get together** | Join our evening get-together and take this opportunity to network and make new business contacts. Or just to relax and round off your first conference day.



08:40 Registration and welcome coffee

09:00 Chairman's opening

Approaches to minimise costs during transport and installation

09:15 Floating installation vessels: next generation logistics and cost reduction

- Suction bucket jackets at the Aberdeen offshore windfarm
- Floating installation vessels
- Monopile installation with DP installation vessels
- WTG installation with DP installation vessels

 **Marcel Van Bergen**, Director Director, **Boskalis Offshore Energy Division**, The Netherlands

09:45 Foundation Installation Arkona Becken Südost

- The Project
- Transport of monopiles
- Installation of monopiles
- Installation of transition pieces

 **Edwin Van de Brug**, Regional Manager, **Van Oord Offshore Wind Projects**, The Netherlands

Soil-structure interaction, damping and wave loads

10:15 Integrated seismic analysis – A case study of soil, structure and turbine interaction

- Earthquake – A design driver for offshore windfarms in Taiwan and other Asian areas
- A simplified approach to consider soil liquefaction
- Integrated analysis of wind turbines on jacket structures with SESAM and BLADED
- How to consider different variable actions (wind, waves, seismic impact)?

 **Marcus Klose**, Head of Section Steel Structures, **DNVGL**, Germany

10:45 Panel discussion | Installation optimisation for cost reduction of offshore wind farms

11:15 Refreshment break and networking

11:45 Innovation in subsea foundation inspection

- Results from OWA competition for new techniques for inspection offshore
- Technical overview of the winning inspection techniques
- Further development and offshore trials

 **Michael Stephenson**, Offshore Wind Associate, **Carbon Trust**, UK

12:15 Stiffness and damping of offshore wind-turbines and its impact on design

- Why do we care about the stiffness and damping of offshore structures
- Accessing the frequencies and damping values of offshore foundations in operating conditions
- Comparison between as build and as designed values from several existing windfarms
- Strategies to improve future designs based on measurement data

 **Wout Weijtens**, R&D Engineer, **OWI Lab**, Belgium

12:45 Damping and design of offshore wind turbines: a novel approach based on back-calculation of on-site measurements

- Estimating on-site damping levels and their components
- Soil damping model
- Fatigue life re-assessment as-built and for future design projects

 **Claus Kramhøft**, Chief Specialist, **COWI**, Denmark

13:15 Networking lunch

Ensuring structural health: Connections and monitoring strategies

14:45 Double Slip Joint - The alternative for grouted, flanged or welded pile connections

- Reasons for the Double Slip Joint and working Principle
- Attractive properties
- Test set-up and results

 **Boudewijn van Gelder**, Manager R&D, **KCI**, The Netherlands

15:15 Design of ring flange connection – Past, present and future

- Overview on design for ring flange connections
- Recent developments and findings
- Updates on codes & standards
- Future requirements for design

 **Marc Seidel**, Senior Key Expert Support Structures, **Siemens Gamesa**, Germany

15:45 Results from the SLIC fatigue test programme

- A new testing standard procedure established for offshore monopole support structures
- New fracture mechanics data are presented
- New S-N data presented

 **Dariusz Eichler**, Senior Lead Structural Engineer, **Vattenfall**, Denmark

Feargal Brennan, Director of Energy & Power, **Cranfield University**, UK

16:30 Refreshment break and networking

17:00 True digital twins for wind farm monitoring – implemented to create value

- What are the available low-cost monitoring solutions in the market?
- What is a true digital twin and how to get it.
- How does the true digital twin help to optimize inspection?
- Study case from the Wikinger Offshore wind farm

 **Ursula Smolka**, Senior Engineer, **Ramboll**, Germany

17:30 Structural monitoring systems for offshore windfarms

- Opportunities for cost reduction in offshore wind using structural monitoring
- Underwater and subsoil MP load monitoring: update on Nobelwind Wind R&D project
- Strategies to determine the remaining use-full life of an offshore foundation using measurement data
- Innovative Low-cost monitoring solutions: virtual sensing and hybrid monitoring

 **Christof Devriendt**, RD&I Coordinator, **OWI Lab**, Belgium

18:00 Closing remarks of conference chairperson.

End of conference day two



WEDNESDAY | 27 JUNE 2018

18:30 - 19:30 | WORKSHOP A



Comparing connections and (perceived) risks

Workshop A is designed to invite the expert community into a discussion about offshore foundation connection strategies. Explore the advantages of grouting, bolting and slip joint pieces during this interactive workshop.

- Bolted connections
- Grouted connect
- Innovative connections (like the Double Slip Joint)

Dirk Pulles,
Manager Renewables,
KCI, The Netherlands



THURSDAY | 28 JUNE 2018

08:30 Registration and welcome coffee

09:00 - 11:00 | WORKSHOP B



Foundation installation with a floating crane vessel

Discuss the (dis)advantages of floating foundation installation compared to installation with a (fixed) jack-up vessel based on current and future offshore wind farm site specific conditions and different foundation types

- Foundation installation with a floating crane vessel
- Floating installation of different types of foundations
- Advantages / disadvantages compared to fixed installation

Muriel Van der Hulst,
Development Manager,
Boskalis, Netherlands



11:00 Refreshment break & networking

11:30 - 13:30 | WORKSHOP C



Moving deeper and worldwide. The offshore wind transition from bottom-fixed to floating

The expansion of offshore windfarms to deeper waters has opened new possibilities for energy production but it also entails challenges for current foundation design. Join this workshop to discuss the potential of new floating technologies to make it feasible.

- Making offshore wind a global market
- Local content in offshore wind farms construction (concrete vs. Steel)
- Fixed vs. Floating foundations

David Carrascosa,
Chief Technology Officer,
Saitec, Spain



13:30 Networking lunch

14:00 - 16:00 | WORKSHOP D



Current wind market landscape in Europe

Workshop C is designed to provide an overview of the new markets in Europe.

- How to become cost- competitive?
- Non-subsidy tenders

Expert speaker
Bladt, Denmark



16:00 End of the workshop day



Windpower Engineering covers the design, technical content, and maintenance of wind turbines, wind farms, and the regulations and policies that make the industry function. Windpower Engineering provides accurate, timely, and useful information to wind energy professionals. Windpower Engineering also provides useful design tips and industry knowledge across the full spectrum of wind and other renewable energy technologies.

<http://www.windpowerengineering.com>



Your offshore Wind News Turbine

Offshore Wind delivers expert coverage of the industry sectors that matter most to you and your business. This includes news and updates on wind farms, projects, markets, vessels, equipment, turbines, research, contractors and the authorities dominating these markets.

www.offshorewind.biz



OFFSHORE WIND INDUSTRY is an English-language trade magazine for the offshore industry with focus on Europe. Journalistic elements are primarily news and background information, overview articles/market overviews and product previews, company news and event reports, event previews, legal texts and market analyses.

<http://www.sunwindenergy.com/offshore-wind-industry>



At the forefront of the wind energy industry, NRG Journals Ltd proudly presents **InDepth WIND**. This innovative and forward-looking wind power magazine provides the latest news from the wind industry, and with unrivaled inside knowledge, ensures that you are always up-to-date on new products, innovations, policies, mergers and acquisitions within the wind power sector. As a leading global wind system journal focussing on mature markets such as Europe, the UK, USA and Canada, through to emerging economies like China and India, InDepth WIND strives to achieve the best value for money for your clients through targeted advertising and help expand your global reach within the wind energy industry.

<http://www.indepthnrg.com/>



How can you meet your marketing and business development objectives?

Networking | Ensure that you have the opportunity to engage with the key decision makers within your industry. We can create a platform for you to effectively interact with your top customers and prospects in the environment of your choice. This can range from formalized private meetings / workshops right through to less structured networking events such as sponsored drinks receptions, coffee breaks or lunches. Ultimately whatever you decide is the right forum; we will support you in your quest to advance relationships with the key people who can influence the future of your business.

Branding | Your company can be elevated to a position where they are seen as a market leader. In a fiercely competitive market you need to ensure that your brand is differentiated from the competition. Failure to create a clear identity will see your organization fade into the background. We ensure that we do everything we can to effectively lift your brand before, during and after the event. Not only do we create a fully integrated marketing campaign, which your company can be part of, but we also offer high impact premium branding opportunities for example on bags, water bottles, pens lanyards etc.

Thought Leadership | If you think that you should be viewed as a true industry leader then your need to demonstrate your market knowledge and expertise through a thought leadership opportunity, such as speaking or chairing. This is a highly unique opportunity for your company to educate the market, and as long as you are credible enough to fit into a high level event program, we can position your organization alongside top customers and prospects in our speaker faculty. As part of this speaker faculty your company will be set apart from other industry attendees giving you the competitive edge required to make further strides in the market.

To learn more about the opportunities available contact:

Stephen Lellman | Stephen.Lellman@iqpc.de | +49 (0)30 209 13-111

SPONSORSHIP OPPORTUNITIES

8 Reasons why this conference can benefit you.

- 1 Generate new sales leads: Our event will bring together the industry's key-decision makers, all of whom have strong business reasons for attending the event. By exhibiting and presenting, you can impact on these buyers. By the very nature of the high quality of delegate attendance, the contacts generated will lead to very high conversion rates.
- 2 Launch new products or services: Use the event as a launch pad to promote your latest products or system. With the most senior figures from the industry in attendance, plus carefully selected media partners at the event, innovative new technology will always generate a buzz.
- 3 Demonstrate thought leadership: Speaking on the program will allow you to demonstrate your market knowledge and expertise to an audience of high level decision makers.
- 4 Enter new markets: Sponsorship is one of the most effective ways to enter new markets. It is a great opportunity to research and network whilst gaining exposure to a new qualified database.
- 5 Building customer loyalty: Face-to-face contact at conferences, and showing continued support of the market, helps develop client loyalty as well as cementing your position as an industry player.
- 6 Positioning your company brand: Being part of this highly influential industry event establishes your company as a strong brand and highlights your company's abilities and strengths. Commitment to this event also demonstrates your capability as a global player.
- 7 Building relations with the media: We have researched the market in order to find the most influential media partners. We understand that opportunities for editorial coverage and developing better relations can be integral to your companies' success, so our media partnerships offer additional benefit above and beyond the standard sponsorship package.
- 8 Brokering new business partnerships: Currently there are huge opportunities to partner with OEM suppliers actively looking to adjust their supply chains.

> CONFERENCE PACKAGES

All Prices + VAT	Book & pay till: 02 March 2018	Book & pay till: 20 April 2018	Book & pay till: 01 June 2018	Standard Pricing
<input type="checkbox"/> Bronze Package 2 day conference	2.699 EUR Save 100 EUR	2.699 EUR Save 100 EUR	2.699 EUR Save 100 EUR	2.799 EUR
<input type="checkbox"/> Silver Package 2 day conference + 1 Workshop	2.899 EUR Save 400 EUR	2.999 EUR Save 300 EUR	3.099 EUR Save 200 EUR	3.299 EUR
<input type="checkbox"/> Gold Package 2 day conference + 2 Workshops	3.099 EUR Save 500 EUR	3.199 EUR Save 400 EUR	3.299 EUR Save 300 EUR	3.599 EUR
<input type="checkbox"/> Diamond Package 2 day conference + 3 Workshops	3.299 EUR Save 600 EUR	3.399 EUR Save 500 EUR	3.499 EUR Save 400 EUR	3.899 EUR
<input type="checkbox"/> Platinum Package 2 day conference + 4 Workshops	3.499 EUR Save 700 EUR	3.599 EUR Save 600 EUR	3.699 EUR Save 500 EUR	4.199 EUR

The delegate fee includes the following services:

- Access to the purchased conference packages
- Catering during the entire conference
- Conference documentation + Evening Get-Together

Please indicate your choice on our conference workshops:

- Workshop A:** Choosing the right connections
- Workshop B:** Foundation installation with a floating crane vessel
- Workshop C:** Moving deeper and worldwide. The offshore wind transition from bottom-fixed to floating
- Workshop D:** Current wind market landscape in Europe

Only one discount applicable per person.

Delegate Mr. Mrs. Ms. Dr.

Family Name: First Name:

Position: Mail:

Telephone: Fax:

Organization:

Address / Postcode / Town:

Approving Manager:

I agree to IQPC Gesellschaft für Management Konferenzen mbH payment terms.

Yes, I would like to receive information about products and services via email.

Can't make it to the conference? Purchase the 2-Day Documentation for € 990,- + VAT

Documentation will be sent 6 weeks after the event

> PAY BY BANK TRANSFER

QUOTING REFERENCE DE20308.008:

IQPC Gesellschaft für Management Konferenzen mbH,
HSBC Trinkaus & Burkhardt AG,
IBAN: DE32 3003 0880 0430 0760 19,
SWIFT-BIC: TUBDDEDD

> PAY BY CHEQUE: Made payable to IQPC Gesellschaft für Management Konferenzen mbH.

> PAY BY CREDIT CARD:

Please debit my credit card



CARD-NO.:

Expiry date

Security code

Cardholder's name

Card billing address (if different from Company address)

Signature:

EQ

REGISTRATION INFO

> IQPC Gesellschaft für Management Konferenzen mbH

Friedrichstraße 94 | 10117 Berlin, Germany

P: +49 (0)30 20 91 32 74 | F: +49 (0)30 20 91 32 40

E: eq@iqpc.de | https://foundations-offshore.iqpc.de/

> Venue and Accommodation

Swissôtel Bremen

Hillmannplatz 20 | 28195 Bremen, Germany

P. +49 (0)421 62 000 235 | F. +49 (0)421 62 000 239

reservations.bremen@swissotel.com | www.swissotel.com/de/bremen

Accommodation: A limited number of reduced rate rooms are available at the conference hotel. Accommodation can be booked by calling the central reservation number. Please always quote the booking reference IQPC-Berlin. Hotel accommodation and travel costs are not included in the registration fee.

> Sponsorship

We have a variety of packages available to suit your requirements. For all Sponsorship and Exhibition opportunities call Stephen Lellman on:
+49 (0)30 20 91 31 11
or email Stephen.Lellman@iqpc.de

> Payment Terms

Payment is due on receipt of the invoice

> CANCELLATIONS AND SUBSTITUTIONS

Delegates may be substituted at any time. IQPC Gesellschaft für Management Konferenzen mbH does not provide refunds for cancellations. However, save where written notice of cancellation is received more than seven (7) days prior to the CONGRESS, a credit to the value paid at that date will be issued, which may be used against another IQPC GmbH CONGRESS for up to one year from its date of issue. For cancellations received seven (7) days or less prior to an event (including day seven), no credit will be issued. In the event that IQPC GmbH cancels an event, payments received at the cancellation date will be credited towards attendance at a future IQPC GmbH CONGRESS or, in the event of a postponement by IQPC GmbH, a rescheduled date. If the delegate is unable to attend the rescheduled event, the delegate will receive a credit in lieu of payments made towards a future IQPC GmbH event, valid for one year from the date of issue. IQPC GmbH is not responsible for any loss or damage as a result of a substitution, alteration, postponement or cancellation of an event due to causes beyond its control including, without limitation, natural disasters, sabotage, accident, trade or industrial disputes or hostilities.

Regarding your details Please contact our Customer Service Manager (tel: +49 (0)30 2091330 or verteiler@iqpc.de) and inform them of any incorrect details which will be amended accordingly or if you prefer not to get information per Fax, Email, or phone anymore.

> SPEAKER CHANGES

Occasionally it is necessary for reasons beyond our control to alter the contents and timing of the programme or the identity of the speakers.

> DATA PROTECTION

Personal data is gathered in accordance with the Data Protection Act 1998. Your details may be passed to other companies who wish to communicate with you offers related to your business activities. If you do not wish to receive these offers, please tick the box below.

Please do not pass my information to any third party.