



Wind Energy – Challenges in integrity management Thursday 15 March 2018

Venue

Granta Centre, TWI Ltd, Great Abington,
Cambridge CB21 6AL. [Directions.](#)

Fees

£35+ VAT (£42) for members of The
Welding Institute and Industrial
members of TWI.

£95 + VAT (£114) for Non Members
£15 + VAT (£18) for students and
retired members

Register

[Register and pay online.](#)

Programme

[Download the latest programme.](#)

Who is it for?

Technical Groups are networks that meet to discuss the latest developments in the practice and the technology of their specialist area and offer attendees a unique opportunity to discuss topics of mutual interest, promoting the exchange of ideas and sharing of experience, and hearing from leading researchers and engineering practitioners who offer a unique insight and perspective into their area of expertise.

Challenges in integrity management

Wind energy is the world's fastest growing renewable energy type and the UK, being one of the windiest countries in the world, is poised to increase its wind energy generation significantly.

The reliability of wind energy generating structures and equipment has increased in light of experience gained from the relatively mature onshore wind and the more recent offshore wind farms. The cost of new offshore wind has fallen and it is now considered as one of the low cost options for new power in the UK, enabling the UK wind sector to plan a cumulative deployed total capacity of 30 GW of offshore wind by 2030. Such aspirations require challenges to be addressed as offshore wind moves deeper and ongoing operational experience reveals new problems.

This meeting, covers strategic and certain known on-site issues, presents opportunities to industry practitioners, experts and researchers to interact on matters of common interest.

<https://www.twi-global.com/news-events/events/joint-offshore-oil-and-gas-and-pressure-and-process-plant-technical-group-meeting/>

Joint Offshore Oil and Gas and Pressure Process Plant Technical Groups Meeting:

Wind Energy – Challenges in integrity management

Thursday 15 March 2018

Granta Centre, TWI Ltd, Cambridge

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| 09.30 | Registration |
| 10.00 | Welcome |
| | <i>Eur Ing John Marlow, Chairman of Pressure and Process Plant Technical Group, Director, John Marlow Ltd: Chair for morning session</i> <i>Introduction of Chris Bradshaw, new Chairman of the Offshore Oil and Gas Technical Group: Chair for afternoon session</i> |
| 10.10 | Keynote: An overview of foundation structures for offshore wind turbines - including the challenges of materials, welding and integrity |
| | <i>Ben Wysome, Ramboll</i> |
| 10.50 | Statoil's activities addressing offshore wind challenges relating to materials |
| | <i>Mons Hauge: Chief Engineer, Materials Technology, Statoil</i> |
| 11.30 | Coffee Break |
| 11.40 | Fully mechanised welding of nodes for offshore jackets |
| | <i>Dr Stephan Brauser, Salzgitter Mannesmann Renewables</i> <i>Dr Andreas Pittner, Federal Institute for Material Research and Testing (BAM)</i> |
| 12.10 | Avoiding problems with large diameter high tensile bolts in wind turbine structures: lessons from Germany |
| | <i>Eur Ing Alan Denney, Welding and Materials Consultant, AKD Materials Consulting Ltd</i> |
| 12.50 | Lunch and networking |
| 13.50 | Reliability of offshore wind turbine structures |
| | Professor Michael Havro-Faber, Aalborg Universitet, Denmark |
| 14.30 | Fatigue Test Programme for Offshore Wind Monopile |
| | Professor Feargal Brennan, Cranfield University |
| 15.10 | Break |
| 15.20 | Condition monitoring for offshore wind |
| | Steve Marson, James Fisher Testing Services |
| 16.00 | Closing remarks |
| 16.10 | Finish |