Call for Papers

Abstracts should be sent to integrity@asranet.co.uk by the deadline of 31st May 2019
Abstract format is available HERE

Special issues of Elsevier’s International Journal of Fatigue and Taylor & Francis’ Journal of Structural Integrity and Maintenance will be published comprising extended versions of selected papers presented at the conference.

www.asranet.co.uk
About the Conference

The marine, offshore and subsea energy industry continues to evolve creating new challenges and risks for the safety, integrity and reliability of its structures and systems. For example, wells are being drilled at greater depths, pressures and temperatures, requiring enhanced assessment of the integrity of structures and systems in such extreme conditions. There is a push to expand operations into new locations such as the Arctic, where environmental and operational conditions are considerably harsher. Many assets in the North Sea are rapidly reaching or have already exceeded their original design life and safe but affordable life extension and decommissioning are becoming major objectives. The recent rapid developments in renewable energy technologies have introduced new challenges of maintaining at minimum cost the reliability and integrity of structures and equipment in remote locations and subjected to extreme loads and environmental conditions. There are also exciting new opportunities, but also significant challenges and uncertainties, in applying structural health and condition monitoring, robotics and the novel concepts of additive manufacturing and big data to safety and structural integrity. These and many additional traditional and emerging themes will be covered during the conference through survey, focused and/or case study presentations from the practitioners and researchers in the art and science of structural integrity.

The conference will bring together researchers and practitioners to discuss and address the current and emerging issues and challenges, as well as share successes and state-of-the-art and practice, in structural integrity, safety and reliability of energy industry’s marine, offshore and subsea structures and systems. It will feature keynote and invited papers providing broader overviews of the main contemporary themes as well as more focused presentations addressing specific issues of practical relevance. Ample opportunities for informal discussions, sharing of insights and networking will be available.

Conference Themes

- Fatigue, fracture, corrosion, erosion and abrasion
- Deterministic deterioration models and analysis
- Probabilistic deterioration models and analysis
- Dealing with uncertainty in structural integrity assessment
- Structural integrity under extreme loads and in extreme environments
- Probabilistic computational mechanics and numerical methods
- Structural integrity of fixed, floating and submerged structures
- Structural integrity of wells, pipes and risers
- Structural integrity of wind and tidal turbines and wave energy extractors
- Life-cycle assessment, asset integrity management decisions and optimization
- Safe and efficient asset life extension
- Reusable structures and repowering
- Structural integrity in decommissioning
- Design for integrity, inspectability and extended safe lifespan
- Component and system reliability
- Multi-scale material, defect and damage modelling
- Structural health and condition monitoring
- Non-destructive testing and evaluation
- ‘Digital twins’ for structural integrity
- Structural integrity of additively manufactured materials
- Integrity protection technologies
- Industry codes and guidelines
- Case studies in structural integrity, safety and reliability

Abstracts of up to 300 words with presentation/paper title and names and affiliations of all authors and an e-mail address of the corresponding author should be sent to integrity@asranet.co.uk by 6th April 2019. Abstract format is available HERE.
International Advisory Committee

Dr RV Ahilan, London Offshore Consultants, UK
Dr Bostjan Bezensek, Shell, UK
Prof Sang-Rai Cho, University of Ulsan, Korea
Prof Soren Ehlers, NTNU, Norway
Prof Tat-Hean Gan, TWI, NSIRC & Brunel University, UK
Prof AM Korsunsky, University of Oxford, UK
Prof Bernt Leira, NTNU, Norway
Mr Satheesh Manayankath, Health and Safety Executive, Energy Division, UK
Prof Mark Manzocchi, Atkins, UK
Prof Liviu Marsavina, Politehnica University of Timisoara, Romania
Dr Mike Mulheron, University of Surrey, UK
Dr Mohammad Nabavian, Wood, UK
Dr Helena Polezhaeva, Independent, France
Prof J geom Paik, University of Pusan, Korea & University College London, UK
Dr Cesare Marie Rizzo, University of Genoa, Italy
Dr Suhas Vhanmane, Indian Register of Shipping, India
Prof Luca Susmel, University of Sheffield, UK
Dr Ramsay Fraser, BP, UK

Keynote Speakers

Prof. Kamran Nikbin, Imperial College, UK
Prof. Tat-Hean Gan, TWI, NSRIC and Brunel University, UK

Invited

Dr Mark Manzocchi, Atkins, UK
Dr Xiaokang Yin, China University of Petroleum, China
Dr Mike Mulheron, University of Surrey, UK
Dr Mohammad Nabavian, Wood, UK
Prof Dimitrios G. Pavlou, University of Stavanger, Norway
Dr Erik Vanem, DNVGL, Norway
Dr Claudio Ruggieri, University of Sao Paulo, Brazil
Prof Noel O’Dowd, University of Limerick, Ireland
Dr Ali Mehmanparast, Cranfield University, UK
Prof Danie Hattingh, Nelson Mandela University, South Africa

Organising Committee

Prof Purnendu Das, ASRANet Ltd, UK
Dr Piotr Omenzetter, The University of Aberdeen, UK

Registration Fees

Full Registration: £400
Student Registration: £200

Important Dates

Abstract Deadline: 31st May 2019
Full Payment: 9th July 2019
Abstract Acceptance: 15th June 2019
Full Paper Submission: 9th August 2019
KEYNOTE AND INVITED SPEAKERS

(Click on each photo to see the title of each person’s paper along with a short bio)

Prof. Kamran Nikbin, Imperial Collage, UK

Prof. Tat-Hean Gan, TWI, NSRIC and Brunel University, UK

Dr Mark Manzocchi, Atkins, UK

Dr Mohammad Nabavian, Wood, UK

Dr Mike Mulheron, University of Surrey, UK

Prof Dimitrios G. Pavlou, University of Stavanger, Norway

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Prof Danie Hattingh,
Nelson Mandela University, South Africa
About Aberdeen

Aberdeen is a thriving city – with people working and studying here from across the world, attracted as to Europe's capital of energy (both O&G and renewables) and offshore and subsea industries with many of the main players and supply chain/services providers having a strong presence. The city itself is home to several museums including the Tolbooth Museum, Aberdeen Maritime Museum, Gordon Highlanders Museum and the Zoology Museum. Scotland’s first centre of science and discovery can also be found near Aberdeen Beach and there are a great selection of cultural attractions, with several theatres and art galleries across the city. Equally well-known for its shopping, the city’s Union Square (adjacent to Aberdeen Railway Station) has over 50 top shopping brand stores (including MAC, BOSS, Apple and ZARA), and 30 restaurants, as well as a 10-screen cinema. Nearby, the connecting Trinity Shopping Centre is home to a large Primark and Debenhams, and many other shops. Aberdeen's rivers and the North Sea are also home to a host of wildlife, and even dolphins have found a home here. These fascinating mammals are regularly seen playing at the mouth of Aberdeen's working harbour; Dolphin Watch, located at the vantage point of Torry Battery, is open seasonally to help visitors spot these urban dolphins. If you like you can also take on of Aberdeen Harbour Cruises, providing a great opportunity to experience a different viewpoint of the city as well as get up close to wildlife. Aberdeenshire is also home to a large number of traditional castles and outdoor activities. For those attendees that enjoy hiking and hillwalking, Aberdeen acts a great starting point for exploring the Cairngorms National Park.

Getting Here

Getting to Aberdeen is simple, with a whole variety of transport options available to those travelling, and the city can be reached by road, rail, or sky. Once in the city there are excellent transport links throughout the area meaning most destinations are easily accessible by public transport, taxi or car. For those driving, Aberdeen is approximately 2.5 hours’ drive from Edinburgh or Glasgow. Well sign-posted, the surrounding area of Aberdeenshire is within close proximity of Aberdeen with the towns and villages easy to get to by major country and main roads. For those flying, Aberdeen International Airport is located just six miles from Aberdeen city centre and is within easy reach of Aberdeenshire by bus or taxi. The region is well connected globally with daily flights to all major airports including all three London airports, Frankfurt, Paris and Amsterdam. The international airport also has many direct routes to most UK cities as well as many key European destinations. For more information you can visit Aberdeen Airports website [HERE](#). Aberdeen’s railway station right in the heart of the city (next to the main shopping centre, Union Square), has frequent, fast and reliable services to and from all Scotland’s major cities. Travel on one of the hourly trains from Glasgow and Edinburgh or use the east coast line to travel from cities such as York or Newcastle. For timetables and to book your train tickets to Aberdeen visit the Scotrail website [HERE](#). For those preferring to travel overnight, Aberdeen can also be reached from London on the Caledonian Sleeper. Visit the Caledonian Sleeper website [HERE](#) for more information about this service.

Accommodation

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<tr>
<th>Jurys Inn Aberdeen</th>
<th>Aberdeen Douglas Hotel</th>
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<tr>
<td>Hotel ibis Aberdeen Centre</td>
<td>Hilton Garden Inn Aberdeen City Centre</td>
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<td>Travelodge Aberdeen Central</td>
<td>DoubleTree by Hilton Hotel Aberdeen Treetops</td>
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<td>Mercure Aberdeen Caledonian Hotel</td>
<td>Premier Inn Aberdeen City Centre</td>
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CONFERERENCE VENUE

DOUBLETREE BY HILTON ABERDEEN TREETOPS
161 SPRINGFIELD RD, ABERDEEN
AB15 7AQ

DoubleTree by Hilton Aberdeen Treetops is a quiet retreat in the leafy West End of the city, with close links to Aberdeen Airport, Aberdeen Exhibition and Conference Centre (AECC) and the City Centre. Enjoy a scenic and relaxing location, and reach local restaurants, bars and shopping centres with ease. We’re also near golf courses, parks, whisky trails and family-friendly attractions, and we provide quick access to motorways and complimentary car parking.

CONFERENCE DINNER VENUE

DOUBLETREE BY HILTON ABERDEEN TREETOPS
161 SPRINGFIELD RD, ABERDEEN

Special Delegate Rate - Doubletree by Hilton

£70 per night: Single with Breakfast

£80 per night: Double with Breakfast

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Sponsorship & Exhibition Space

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- Company Logo in the Book of Abstracts
- Company Advert in the Book of Abstract (A4 Size)
- Advert in the Conference Proceedings

Exhibition

Cost £1200 + VAT

Package Includes:
- 1 Free Delegate Registration
- 1 Display table (1800 x 1200 mm) in Breakout Area
- Display material: Published material, Structural component
- Display Banners

Sponsorship Package + Exhibition Package

Cost £2100 + VAT

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• 1 Display Table (1800 x 1200 mm) in Breakout Area
• Display Material: Published Material, Structural Component
• Display Banners
• Company Logo in the Conference Programme
• Company Logo & Advert in the Book of Abstracts (A4 Size)
• Advert in the Conference Proceedings

Contact E: integrity@asranet.co.uk T: +44 (0)141 275 4801