



Norwegian Society  
Of Lifting Technology

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# The 22nd International OFFSHORE CRANES & LIFTING CONFERENCE

*Stavanger, Norway April 25th – 27th 2017*



*Safe lifting operations through  
high reliability and cost effectiveness*

TECHNICAL ORGANIZER:



# Welcome to Stavanger!

THE 22<sup>nd</sup> INTERNATIONAL  
OFFSHORE CRANE & LIFTING  
**CONFERENCE**



**The Norwegian Society of Lifting Technology (NSLT) together with the Offshore Mechanical Handling Equipment Committee (OMHEC) are again proud to announce this year's International Offshore Cranes & Lifting Conference.**

The conference alternates between the "oil capitals" of Norway and Scotland - Stavanger and Aberdeen - these are the most important places of business for the North Sea oil and gas industry and home for regulators, the major duty holders, oil and gas contractors, service companies etc. During the conference, the participants will have a chance to meet and share their experiences with North Sea offshore petroleum regulators, experts and industry leaders from the offshore crane and lifting operations community.

The conference has the goal to cover a wide range of new topics in offshore cranes and lifting technology, subsea and heavy lifting, crane standardisation and regulatory and industry safety initiatives. Participants will have ample opportunity to enter into discussions with the speakers and spend time interacting with companies demonstrating their goods and services in the conference exhibition area.

## Why you need to attend The 22th IOCLC in Stavanger, Norway

**You'll get the most up-to-date information in the offshore crane and lifting business industry, as well as answers to all of your crane and lifting questions.** Additionally, world renowned crane business leaders, end-users, consultants, petroleum regulators and vendors will all be under one roof, solely for the purposes of learning, exchanging information, networking, see and try new technology and developing long lasting business relationships in order to contribute to enhance safety and improve business.

### What sets this conference apart from the rest?

*The 22th International Offshore Cranes and Lifting Conference is the only conference with a complete focus on the offshore crane & lifting business in the North Sea and beyond.*

*The conference is not a series of sales orientated pitches but a dynamic gathering of like-minded people involved in the offshore lifting industry. Our unique blend of presentations, case studies and exhibitions provides you with a unique opportunity to walk away from the summit with all of the critical information you need to get the most out of your daily lifting operational tasks. This conference gives the lifting community the platform that it truly deserves as it provides many hours of dedicated networking time for you to talk openly with your peers, suppliers and customers and the opportunity to conduct business face-to-face.*

# PROGRAM

## Monday April 24th

20:00 Get together at Scandic Forum Hotel

## Tuesday April 25th

**Morning session Chairman: Mr. Svein Anders Eriksson, Petroleum Safety Authority, N**

08:00 Registration/Coffee / Exhibition

09:30 **Welcoming Remarks**

*Mr. Svein Anders Eriksson, Section Head, Petroleum Safety Authority, N*

09:40 **Welcome to Stavanger**

- Opening Address

*Mr Bjørn Thomas Bache, Director supervisory activities, Petroleum Safety Authority, N*

## REGULATION/SAFETY

10:00 **HSE Focus**

- Summary incidents and accidents

*Mr. Colin Martin, Health and Safety Executive, HSE, UK*

10:20 **PSA Focus**

- PSA focus 2017 - reversing the trend
- Summery accidents and incidents

*Mr. Svein Anders Eriksson, Section Head, Petroleum Safety Authority, N*

10:40 **Coffee Break / Exhibition**

11:10 **SSM Focus**

Summary incidents and accidents  
*Mr. Arnold de Groot, State Supervision of Mines, NL*

11:30 **OMHEC Update**

*Mr. Sigmund Andreassen, Leader OMHEC/Principle Engineer, Petroleum Safety Authority, N*

## SHARING BEST PRACTICES – EXPERIENCE TRANSFER

11:50 **Two incidents with crane operations**

*Mr. Svein Harald Hetland, Technical Authority & Leader, Enterprise of Competence, AkerBP, N*

12:20 **Lunch / Exhibition**

**Afternoon session Chairman:**

**Mr. John Morrison, EnerMech Ltd., UK**

13:20 **Safe Crane Operations in a Risk Based Environment**

- Operating 42 cranes of various models and age offshore Malaysia.
- Findings, risk assessment and mitigations following a crane boom winch failure.

*Mr. Chin Tze-Hur, Crane & Lifting Gear Engineer and Mr. Geir Jacobsen, Crane & Lifting Gear Advisor, ExxonMobil Exploration & Production, Malaysia Inc.*

13:50 **Lifting equipment inspection data – possibilities and benefits**

- Mining and analyses of data from lifting equipment inspection
- Inspection data from more than 200 assets in a period of more than 3 years
- A tool for decisions making to give operational benefits

*Mr. Kenneth Bjørseth, Service Manager, Axess, N*

14:20 **Coffee Break / Exhibition**

14:50 **Facilitation and motivation for safe lifting operations**

- Clear and simple lifting procedures
- Involvement of executing personnel

*Mr. Geir Heddeland, Logistic Supervisor, Ekofisk Komplex ConocoPhillips, N*

## PERSONNEL TRANSFER

15:20 **Walk-to-work – safe and reliable offshore gangways**

- How to document and secure safe operation and performance of gangway systems.
- Design and safe performance of systems used for gangway access to offshore facilities.

*Mr. Per Arild Åland, Business Development Manager in Offshore Class, DNV GL, N*

15:50 **Coffee Break / Exhibition**

16:20 **“8 years of experience in motion compensated lifting: lessons learned”**

- Overview of various projects
- Operational successes, challenges and new opportunities

*Mr. Jim Koppenol, Lead R&D Engineer, Barge Master, NL*

16:50 **Solutions for transfer of cargo and personnel**

- Innovative solutions for safe transfer of cargo and personnel
- Keep it flexible for short term and long term projects

*Mrs. Kirstin Timppte, Business Development Manager Offshore Wind, SMST, NL*

17:20 **End of day 1**

## SOCIAL ARRANGEMENT

18:30 **Bus from Stavanger Forum**

19:00 **Aperitif at Sola Strand Hotel**

19:30 **Dinner at Sola Strand Hotel**

*Master of Ceremonies: Mr. Peter Mitchell, UK*

23:30 **Bus transport back to Stavanger Forum**

Sola Strand Hotel



Wednesday April 26th

Morning session Chairman:

Mr. Maro Hartmann, Lloyd's Register EMEA, D

Afternoon session Chairman: Mr. Arnold de Groot,

State Supervision of Mines, NL

## PERSONNEL TRANSFER

08:00 **Developments in offshore access**

- Walk to Work update
- Systems for people & cargo transfer.
- Winterization of offshore access systems

Mr. Alexander Ronse, Senior Structural Engineer,  
Ampelmann Operations, NL

08:30 **Increasing vessel efficiency during decommissioning phase**

- Reducing cost and increasing vessel efficiency during decommissioning phase by using deck motion monitor system
- Cost effective personnel transfer during decommissioning phase

Ms. Sandra Antonovic, Chief Operating Officer,  
Reflex Marine Ltd, UK

## HEAVY LIFTING

09:15 **Innovative and cost efficient Active Heave Compensation – the SAL APHC**

- New possibilities for retrofitting AHC
- Reduction of wear and tear by minimization of moving parts

Mr. Tilo Klappenbach, Project Engineer, SAL Heavylift GmbH, G

09:45 **Coffee Break / Exhibition**

10:15 **Development of High Lifting Capacity**

- Developments in High Loads
- Developments in High Lifting Heights

Mr. Cees van Veluw MSC,  
Product Development Manager Cranes,  
Huisman Equipment B.V., NL

10:45 **"SeaState5 Grasshopper T**

- **New system for handling XL monopiles"**

- New lifting systems are required due to the increasingly large monopile foundations for offshore wind farms.
- SeaState5 has developed an efficient lifting and upending system; the Grasshopper-T. The system is a cost-effective jack-up vessel upgrade to increase installation capacity for XL monopiles.

Mr. Willem Zwetsloot, Director Operations, SeaState5, NL

## STANDARDS

11:15 **Status NORSOK R-002 and R-003**

- NORSOK R-003 Revision 3
- NORSOK R-002 Revision 3 Editorial changes to revision 2

Mr. Stein Ove Dyngeland,  
Advisor Cranes and lifting operations, Statoil, N

11:45 **Lunch / Exhibition**

12:45 **New ISO Standard for Offshore Containers**

- Information about the Draft ISO standard (ISO-DIS 10855) for Offshore Containers
- What is new in this standard compared to existing standards

Mr. Dag Steensen, Principal Engineer, DNV GL, N

13:15 **Building trust in modern Motion Compensating Systems**

- JIP project developing Guidelines for Motion Compensating Systems
- How industry can benefit from using the Guidelines

Mr. Marcin Piotr Sikora, Senior Engineer, DNV GL, N

## MAINTENANCE AND INSPECTION

13:45 **Liebherr, Industry 4.0 = Service 4.0?**

- What is Industry 4.0?
- Future influence and possible changes to the Lifting Industry?
- What does it mean for crane owners in the future?

Mr. Martin Mathis, Head of Global Customers,  
Maritime Cranes, Liebherr - MCCtec, D

14:15 **Coffee Break / Exhibition**

14:45 **UAV-drones – an inspection method for the future**

- Rules and regulations
- Zones; distances and limitations
- Inspection types and usage areas
- Possibilities and sensors

Mr. Kjetil Spurkeland,  
General Manager, Kolos Equipment AS, N

## HUMAN FACTORS AND TRAINING

15:15 **Reducing risk prior to heavy lift/subsea operations by use of simulations**

- How can DP analysis help you to predict operational issues like oscillation, patterns, setup and use of thrusters etc.?
- How can real-time simulation reduce risk and improve safety before you do a heavy lift/subsea lift?
- Case study from SIMO simulations and real time crew training simulation

Mr. Bård E. Bjørnsen Team Manager Global Customer Support & Services - Advisory, Mr. Per H. Storhaug Team Manager Global Customer Support & Services - Courses Trondheim, Kongsberg Maritime, N

15:45 **Coffee Break / Exhibition**

## DROPPED OBJECTS

16:15 **"Development and implementation of crane limitation charts on offshore installation"**

- Development of Lifting restriction charts according to NORSOK R-002
- Experience with use of Finite Element Analysis to develop rules for lifting restrictions
- Challenges and practical use of the lifting restriction charts

Mr. Kato Øvestad, Project Manager, Tech Team Solutions AS, N

17:00 **End of day 2**



Thursday April 27th

Morning session Chairman:  
Mr. Robert Oftedal, DNV GL, N

## LIFTING ROPES

- 08:00 **Synthetic rope components in lifting:**  
**Technical challenges of the value proposition**
- Overview of BBRG capability and approach in steel, hybrid and synthetic rope technologies
  - Some aspects of an ongoing BBRG research and development in each technology
  - Summary of optimised performance possibilities of each technology
- Mr. Timothy Hunter, Fibre Technology Manager, Bridon-Bekaert Ropes Group, UK*
- 08:30 **Steel wire ropes in offshore applications**
- Selected case studies
- Mr. Roland Verreet, Wire Rope Technology Aachen, D*
- 09:30 **Coffee Break / Exhibition**
- 10:00 **Temperature in heave compensation ropes**
- The AHC and its heating effect on the rope
  - Rope-sheave coupling and its heat generation prediction
- Mr. Maurizio Meleddu, Product Development Manager, Raedelli Tecna SpA and Mr. Francesco Foti, PhD, Politecnico of Milan, I*
- 10:30 **Use of fibre rope in subsea cranes**
- Qualification of ropes and handling systems
  - Field experience and operational advantages
- Johnny Aarseth, Technical Product Manager – Crane, Rolls-Royce Marine, N*

## NEW TECHNOLOGY, SCIENTIFIC DEVELOPMENT AND RESEARCH

- 11:00 **Development of PALFINGER DKW2500E Offshore crane**
- Highlights from the development and testing of PALFINGER DKW2500E fully electric Offshore crane according to EN 13852 and Norsok R-002 for the Johan Sverdrup field
  - Technology based on standard AC motors and VFD drives and verified by Technology Qualification Plan together with STATOIL
- Ms. Cyrielle Gorini-Gonçalves, R&D Engineer / Sales Special, Palfinger Marine Norway, N*

- 11:30 **Reduce number of manual tasks on DSA drill-floor through use of robotic technology**
- Approx. 20% of rig time is spent on drill-floor operations. Many of the tasks involved with these operations are done manually
  - By use of robotic technology these tasks can be handled safer, smarter and faster
- Mr. Jimmy Bostrøm, Chief Operating Officer, Robotic Drilling System, N*

12:00 **Lunch / Exhibition**

Afternoon session Chairman:  
Margrethe Aven Storheim, Wintershall, N

- 13:00 **Additive Manufacturing (3D Printing)**  
**- What impact could this have for the Offshore Crane and Lifting industry?**
- Additive manufacturing, also known as 3D printing, is set to change the way products are manufactured but what potential impact could this have for the Offshore crane and lifting industry?
  - The presentation will illustrate some of the key technologies driving additive manufacturing of metallic components and discuss some of the advantages and challenges. It will also explore potential benefits to the industry and how this could revolutionise the way components and structures are designed, made and supplied in the future.
- Mr. William Wistance, Lead Metallurgical Specialist, Lloyd's Register EMEA, UK*
- 13:30 **Integrated decision support for offshore operation**
- A setup for combining operational limits from monitoring and forecast systems.
  - Integrated hydrodynamic operational advice for expected vessel responses.
- Mr. Jaap Jan Stoker, Solution Manager, Marine Software and Analytics, ABB, N*
- 14:00 **Safelink inline Active Heave Compensation**
- Uniting the functionality from traditional passive and active heave compensation, and the result is a light weight system which easily can be scaled to any required lifting capacity.
  - Enables the offshore industry to significantly reduce costs and gain efficiency.
- Mr. Steinar Frostad Paulsen, Safelink, N*
- 14:30 **Hands Free Autonomous Load Orientation**
- Presenting a new, safer way to control and position crane loads
  - No human contact with the moving load is required.
- Professor Angus L Jamieson BSc FRICS, University of the Highlands and Islands Inverness, Scotland, UK*

15:00 **Closing/Adjourn**

15:15 **Bus transport to airport**



## CONFERENCE FEES

Participants: NOK 12.500, - excl. VAT  
Early reg.: NOK 11.500, - excl. VAT (15th March)  
Single day registration: NOK 4.900,- excl. VAT  
Lecturers: NOK 5.200, - excl. VAT  
Co-authors: NOK 8.500, - excl. VAT  
Sponsorship: NOK 20.000,- excl. VAT  
Exhibitor: NOK 20.000, - excl. VAT

### In addition / Options:

Daytime packages includes lunch and refreshments  
NOK 550, - /day excl. VAT  
Get together April 24th: NOK 350,- excl. VAT  
Conference dinner April 25th: NOK 950,- excl. VAT

## CONFERENCE COMMITTEE:

- Mr. Svein Anders Eriksson, Petroleum Safety Authority, PSA, NO
- Mr. Robert Oftedal, DNV GL, NO
- Mrs. Margrethe Aven Storheim, Wintershall Norge, NO
- Mr. Arnold de Groot, State Supervision of Mines, NL
- Mr. Colin Martin, HSE, UK
- Mr. John Morrison, Enermech, UK
- Mr. Jan Ketil Moberg, Petroleum Safety Authority, PSA, NO
- Mr. Maro Hartmann, Lloyd's Register EMEA, Marine & Offshore, D
- Ms. Anne Line Rosenlund, Norwegian Society of Lifting Technology, NSLT, NO

## PAYMENT

The Registration fee, conference packages and Conference Dinner will be payable to Norwegian Society of Lifting Technology (NSLF).

### Payment options:

1. By individual invoice. An individual invoice for the registration fees and selected options (excl. accommodation costs) will be sent by mail, payable to NSLF. Due date is Friday April 10th 2017. Please bring a copy of the remittance at the conference if payment is made after this.
2. By on-site payment. If it is more convenient for you, bring the invoice with you to the check-in desk, where you can pay with credit card (VISA/Diners/MasterCard/AmEx). Remember to advise us in advance if you select this payment.

## CANCELLATION

Cancellation must be made within three business days before the seminar start unless full fee must be paid.

**Cancellation fee is 20% of full registration fee after the registration deadline.**

Only written cancellation is accepted.

*Don't miss this opportunity to meet colleagues in the offshore crane and lifting business, to participate in discussions related to offshore cranes, lifting and material handling, and see an exhibition of new services, goods and technology!*



## REGISTRATION OFFICE

The Norwegian Society of Lifting Technology (NSLT)  
P.O. Box 73, N-1325 Lysaker, Norway

### Conference Manager:

Ms. Anne Line Rosenlund  
Mobile: +47 928 92 274  
Phone: +47 67 52 60 12  
e-mail: [anne.line@tfsk.no](mailto:anne.line@tfsk.no)



### THE VENUE

Stavanger Forum is one of Norway's most professional conference and exhibition centres. They have organised and hosted a large number of national and international events. The International Offshore Crane & Lifting Conference 2017 will take place in the largest auditorium, Lindesnes A, with a capacity of more than 400 delegates. The exhibition and serving area will be in the 690-square-metre indoor plaza, Forum Torg.

For accommodation, we have booked the Scandic Forum Hotel, a part of the same complex as the conference centre.



## SOSIAL ARRANGEMENTS / SOSIAL PROGRAM

### Monday April 24th

20:00 Get together at Scandic Forum Hotel

### Tuesday April 25th

19:00 Aperitif at Sola Strand Hotel

19:30 Dinner at Sola Strand Hotel



Registration by: March 27th 2017

Online booking and registration: [www.liftingoffshore.com](http://www.liftingoffshore.com)

Conference website: [www.liftingoffshore.com](http://www.liftingoffshore.com)

Avsender: Tekniske Foreningers Servicekontor AS, postboks 73, NO-1325 Lysaker

## Thank you for the support to:

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## Exhibitors:

