

LOW COST DESIGN INNOVATIVE EQUIPMENT STRATEGIES FOR OIL AND GAS

Institution of
**MECHANICAL
ENGINEERS**

3-4 October 2016

Institution of Mechanical Engineers,
One Birdcage Walk, London

More details available at
www.imeche.org/lowcostdesign

KEY SPEAKERS INCLUDE:

Mick Cubitt
NUI Support Supervisor
Shell

Sarah Wilford
GCD Environmental and Social Lead Advisor, Upstream HSE
BP

Declan Fahy
Senior Process Engineer
Crondall Energy

Ben Eastwood
Process Engineer
Costain

Process Industries Division
Conference

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EVENT PARTNERS:

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LOW COST DESIGN INNOVATIVE EQUIPMENT STRATEGIES FOR OIL AND GAS

3-4 October 2016

Institution of Mechanical Engineers, One Birdcage Walk, London

2015 SAW A 3.5% RETURN ON INVESTMENT BECOME THE LOWEST SINCE ONS RECORDS BEGAN IN 1997. THIS CLEARLY INDICATES THE NEED, NOW MORE THAN EVER BEFORE, TO REDUCE COST ACROSS THE INDUSTRY. RETHINKING THE DESIGN OF OIL AND GAS EQUIPMENT IS AN EFFECTIVE WAY OF ACHIEVING THIS.

With this in mind, Low Cost Design is an unmissable event that will bring operators, engineering design companies and contractors together to discuss the latest design strategies. Review innovative technology deployments and identify what the future of the oil and gas industry will look like.

Through detailed case studies and panel discussions, the conference will address the latest developments in remote and unmanned assets that will reduce lifecycle costs. These will include Normally Unmanned Installations (NUIs) and subsea production systems. Attendees will gain crucial insights into how rethinking equipment design will affect environmental impact and operational safety, together with practical ways to implement them in their organisation.

KEY TOPICS INCLUDE:

- **Shell** shares insights from the development of smaller NUIs (Normally Unmanned Installations)
- Learn from **BP** how to balance low cost with good environmental performance
- **OneSubsea** present case study evidence about their latest design strategies in subsea technology
- Hear exclusive developments in automation, remote controlled fields and plant monitoring and how these can reduce your overall costs
- **Penspen** demonstrates best practice for equipment design optimisation, including insights on pipeline strain-based design

ATTEND LOW COST DESIGN TO:

- Learn about the growth and benefits of smaller Normally Unmanned Installations (NUIs) and the impact they can have on your lifecycle costs
- Gain an insight into the latest design strategies in subsea technology and how these can reduce your overall costs
- Explore how low cost balances with good environmental performance and how you can maximise the benefit for your business
- Appreciate the importance of rethinking design whilst taking into account lifecycle safety
- Hear in depth case studies from successful low-cost design projects from operators to take lessons learned back to your company
- Network with key operators, engineering design companies and contractors from across the oil and gas industry at the seminar

ORGANISING COMMITTEE

Offshore and Upstream Committee
Institution of Mechanical Engineers

MEMBER CREDITS:

Simon Rees
Projects Director
Norton Straw Consultants

Cris Fells
Concept Modelling RAM and OPEX Forecasting
BP Amoco

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**TERMS AND
CONDITIONS
APPLY**

PROGRAMME

DAY 1	
10:00	REGISTRATION AND REFRESHMENTS
10:10	CHAIR'S OPENING REMARKS Simon Rees, Projects Director, Norton Straw Consultants
	LATEST REMOTE AND UNMANNED ASSETS
10:20	NUI DEVELOPMENTS AND COST EFFICIENCY THROUGH USE OF THEM Mick Cubitt, NUI Support Supervisor, Shell
10:45	CRONDALL ENERGY'S COMPACT NOT NORMALLY MANNED OFFSHORE FLOATING PRODUCTION UNIT (FPU) CONCEPT Declan Fahy, Senior Process Engineer, Crondall Energy
11:10	USING REMOTE MONITORING SYSTEMS TO REDUCE COSTS AND LOSSES Tom Fuggle, Business Development Director, Permasense
11:35	QUESTIONS AND ANSWERS SESSION
11:50	NETWORKING REFRESHMENT BREAK
	DESIGNING FOR THE LIFECYCLE
12:20	DESIGNING FOR LOW COST – THE LIFE CYCLE CHALLENGE Brian Mercer, Managing Director, Theon Ltd.
12:45	PIPELINE STRAIN BASED DESIGN: BENEFITS AND CHALLENGES David Simpson, Asset Integrity Engineer, Penspen
13:10	QUESTIONS AND ANSWERS SESSION
13:25	NETWORKING LUNCH
	LOW COST SUBSEA AND SEPARATION TECHNOLOGIES
14:25	ADDING VALUE IN SUBSEA FIELD DEVELOPMENT John Richardson, Subsea Systems Engineer, OneSubsea Technologies
14:50	PANEL DISCUSSION: THE FUTURE OF THE OIL AND GAS INDUSTRY <ul style="list-style-type: none"> • How can the industry overcome the challenges of validating new designs? • What do remotely controlled and demanned rigs mean for the future of the industry? • What will the effect be, if any, of Brexit on the oil and gas industry?
15:30	QUESTIONS AND ANSWERS SESSION
15:45	NETWORKING REFRESHMENT BREAK
16:15	LOW COST DESIGN USING HIGH PERFORMANCE SEPARATION TECHNOLOGY Gilonne Traub, Process and Proposals Engineer, Zeta-pdm
16:40	ROUND TABLES: DISCUSSING THE FUTURE OF THE INDUSTRY <ul style="list-style-type: none"> • What are the best methods of keeping safety cost effective? • What are the cost-related issues with mature basins in the North Sea? • What would be the implications of a future oil and gas industry that is entirely subsea?
17:40	FEEDBACK FROM ROUND TABLE DISCUSSIONS
18:00	CHAIR'S CLOSING REMARKS
18:10	END OF DAY ONE

For the most up-to-date and detailed programme for the event, please visit:
www.imeche.org/lowcostdesign

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

PROGRAMME

DAY 2	
08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS Simon Rees, Projects Director, Norton Straw Consultants
	OPTIMISATION OF CURRENT ASSETS
09:15	NOVEL USE OF TRADITIONAL TECHNOLOGIES TO REDUCE COSTS AND MEET DEADLINES Ben Eastwood, Process Engineer, Costain
09:40	ICE PIGGING: A STORY OF TECHNOLOGY TRANSFER Steve Wheeler, Development Manager – Special Projects, iNPIPE Products
10:05	RISER DESIGN EXPLORATION AND OPTIMISATION: REDUCE COSTS NOT PERFORMANCE Matt Straw, Managing Director, Norton Straw Consultants Alex Read, Director - Oil & Gas, CD-adapco (A Siemens Business) Nate Chase, Technical Team Leader, Red Cedar Technology (A Siemens Business)
10:40	QUESTIONS AND ANSWERS SESSION
10:55	NETWORKING REFRESHMENT BREAK
11:25	SPS/SURF CASE STUDIES: RESULTING IN COST REDUCTION AND CERTAINTY Chris Freeman, Partner & Director of Field Development, io oil & gas consulting
11:50	ADDRESSING THE EXCUSE "BUT IT'S BEEN THIS WAY FOR YEARS" Andrew Stokes, Managing Director, Augmentias Offshore and Maritime Engineering
12:20	QUESTIONS AND ANSWERS SESSION
12:35	NETWORKING LUNCH
13:35	PREVENTION OR CURE: WHAT DOESN'T LEAK, CAN'T KILL Graham Dalzell, Independent Consultant, TBS3
14:00	LOW COST DESIGN AND THE ENVIRONMENT Sarah Wilford, GCD Environmental and Social Lead Advisor, Upstream HSE, BP
14:25	QUESTIONS AND ANSWERS SESSION
14:40	NETWORKING REFRESHMENT BREAK
15:10	FUTURE DESIGN CONCEPTS FROM YOUNG ENGINEERS
15:40	PANEL DISCUSSION: LESSONS LEARNED FROM THE CONFERENCE <ul style="list-style-type: none"> • With dialogue so crucial at this time, how can a more joined up approach between operators, suppliers, designers be achieved? • What is the best practice for presenting business cases for innovative low-cost design concepts? • How can safety and environmental demands be taken into account when considering low cost design of equipment?
16.15	CHAIR'S CLOSING REMARKS
16:30	END OF CONFERENCE

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WHO SHOULD ATTEND?

ALL OPERATORS, CONTRACTORS, DESIGNERS AND SUB-CONTRACTORS ACROSS THE OIL AND GAS SECTOR WILL STRONGLY BENEFIT FROM THIS CONFERENCE.

Specifically, all Heads, Directors, Managers and Engineers who are involved in the following areas are strongly recommended to attend and benefit from Low Cost Design:

- Machinery Engineering
- Facilities Design and Management
- Process Engineering
- Life Of Field
- Subsea Systems
- Production Operations
- Plant Management
- Field Development

**BENEFIT FROM THIS TWO-DAY CONFERENCE
BOOK YOUR PLACE TODAY**

www.imeche.org/lowcostdesign

FEEDBACK FROM PREVIOUS OIL AND GAS EVENTS

SHALE GAS, 2016

“”

A well organised and thought out event where the presentations flowed to give a start to finish process

Defence Infrastructure Organisation

“”

An informative, factual and engaging event

**Technical Solutions Director
National Oilwell Varco**

OFFSHORE ENGINEERING, 2015

“”

A professional and knowledgeable driven conference providing wide ranging insights to industry engineering challenges

**Managing Director
Astrimar**

“”

Really interesting and well organised event. The knowledge that you gained plus the networking opportunities that you have are definitely going to help every engineer's career

**Structural Engineer
Technip**

SPONSORSHIP OPPORTUNITIES

CREATE A BESPOKE STRATEGY THAT PLACES YOUR COMPANY IN FRONT OF SENIOR DECISION MAKERS

- Engage face to face with your target market of senior engineers
- Extensive networking opportunities to help you forge strong long-term business relationships with leading industry players
- Firmly establish thought leadership credentials within your specialist field
- Use high-profile sponsored speaking platforms or focused technical workshops to effectively demonstrate your skills and expertise within a chosen sector
- Deliver high-profile and relevant brand exposure
- Promote your products and services as market leaders in front of our influential audiences
- Generate new business leads
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CONTACT THE SPONSORSHIP TEAM ON:

T: +44 (0)20 7973 1249

E: sponsorship@imeche.org

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HOW TO BOOK YOUR PLACE

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Delegate Type	Early Bird Rate Until 19 August 2016	Standard Rate
Member, IMechE/supporting organisation	£199 + VAT	£219 + VAT
Non-member	£249 + VAT	£279 + VAT

Group booking discounts are available. Contact us for more information.

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/lowcostdesign
- 2 Email:
eventenquiries@imeche.org
- 3 Phone:
+44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

CANCELLATION

For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full

refund of the fee paid. The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE

One Birdcage Walk
Westminster
London
SW1H 9JJ

SPONSORSHIP & EXHIBITION OPPORTUNITIES

GET INVOLVED

Attending this event as either an exhibitor or sponsor will give you the opportunity to display your solutions, services and products to the right people at the right time.

BENEFITS OF SPONSORING

- **Showcase** new products
- **Raise** awareness of your operation
- **Improve** perception of your brand
- **Influence** other organisations' spending plans

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For more information please call
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OTHER EVENTS TO LOOK FOR



8-9 NOVEMBER 2016 NOTTINGHAM

Conventional Power Boiler User Group 2016

This event will discuss key issues relating to all aspects of the design, operation and maintenance of conventional power boilers, covering a wide scope of plant areas, fuel types and technologies.

[www.imeche.org/
powerboilerusergroup2016](http://www.imeche.org/powerboilerusergroup2016)



17 NOVEMBER 2016 THE DORCHESTER, LONDON

The Institution of Mechanical Engineers' Annual Dinner

The Institution's Annual Dinner will be returning to London's Dorchester hotel Thursday 17 November 2016, to celebrate the engineering profession with keynote address from The Rt Hon Patrick McLoughlin.

www.imeche.org/annualdinner2016

The Institution of Mechanical Engineers organise over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

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