OFFSHORE EUROPE 2009
Energy At A Crossroads

Starting on Tuesday, September 8th until Friday, September 11th the Aberdeen Exhibition & Conference Centre will accommodate 'Offshore Europe 2009', an oil and gas conference and exhibition. The event will be organised and hosted by SPE International (Society of Petroleum Engineers) and Reed Exhibitions, the Offshore Europe Partnership.
Society of Petroleum Engineers is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves 88.000-plus members from more than 118 countries worldwide.
The line up of top industry names from around the world participating at SPE Offshore Europe in Aberdeen continues to grow, reflecting the show's strategic global reach as well as its unrivalled technical excellence. The 2009 conference and exhibition's theme is 'Energy At A Crossroads: Making Choices' and there are four main pillars supporting this overall theme: climate & energy, the operating model, breakthrough technologies and people & skills.

Over 1.500 suppliers of the latest technology and service developments covering every discipline will exhibit at SPE Offshore Europe.

Conference Programme

The SPE peer reviewed technical conferences - featuring over 100 papers - are free to attend for all visitors. Panel sessions addressed by industry leaders and influencers will address the most prescient issues.

The outline programme is split into 6 topics:

**** 21st Century Well Technology;***
these sessions will discuss new well technology solutions required to optimize and enhance production and recovery with a view to higher oil and gas prices. This will include smaller/more difficult targets, remote well control, HPHT, new materials, new intervention techniques and the impact of digital and communication technologies.

**** Exploration - Established Basins and New Frontiers;***
this conference strand will cover all aspects of exploration including new basins, data acquisition, processing, interpretation, drilling, safety and prospect evaluation.

**** Facilities & Infrastructure - Redesign & Rejuvenation;***
this conference stream will cover advances in the design, construction, operation, repair and maintenance of oil and gas processing facilities and infrastructure. Facilities & infrastructure covers all types of oil and gas processing facilities, including subsea equipment, pipelines, fixed platforms, floating platforms and onshore facilities. A particular focus will be applications of new equipment, digital technologies or new ways of working which can rejuvenate and extend existing facilities, expand capacity in cost effective ways or extend development and processing capability into new more demanding environments.

**** Health Safety and Environment - Our Challenges;***
this stream will offer new insights into HSE management across the upstream sectors, particularly in relation to human factors, emergency procedures, integration of practices into workforce operations, process safety standards, best

practice performance, risk management, environment impact assessment, waste management, energy efficiency and/or use of alternative energy sources in upstream.

**** Reservoir Management - Getting More out of our Reservoirs;***

this stream of the conference will cover all aspects of reservoir management, including geological, geophysical or technical methods to enhance production in mature fields or exploration near existing facilities. Papers may focus on integrated studies, challenges faced by multidisciplinary teams or on specific topics. Of particular interest are abstracts relating to the use of intelligent energy.

**** Towards a Low Carbon Future;***

this stream will include papers that address the issues which will impact the E&P industry as progress is made towards a lower carbon future. Areas of particular concern, from the perspective of carbon emissions, include the production of heavy oils / bitumen and other unconventional oil sources requiring energy intensive production techniques. Topics will include addressing carbon capture and storage, evaluation of our current capabilities for carbon storage, and of the challenges we face in future.

For a detailed, day to day, conference programme, please visit the OE 2009 website.

Exhibition

SPE Offshore Europe provides organisations with the best opportunity to engage face-to-face with the world's upstream community. The event attracts thousands of professionals who attend to discover the future technology and service needs for their organisation and compare suppliers.

OE 2009 is an event where a global audience of engineers, technical specialists, industry leaders and experts, to share ideas, debate the issues of the moment and to create common agendas for the future of the industry.

Offshore Europe is where the E&P community meets to find the solutions required to keep up with an accelerating technology race, and understand the demands of a changing industry committed to ensuring security of supply in an increasingly complex world.

Dutch participation

The Dutch contribution to the OE 2009 consists of a 'Dutch Pavilion' organised by the IRO. The exhibition space is a shared between approximately 40 Dutch companies in total, in which the IRO also participates with their own booth. Association IRO promotes the interests of the Dutch supply and service companies in the upstream oil and gas industry. Members cover all activities involved in the supply industry, such as engineering, field development, pipeline installation, maintenance and material and equipment supply / manufacturing, onshore as well as offshore.

Export is very important for IRO members. Reason for IRO to support its members who wish to venture into new international markets. In this respect IRO every year coordinates several Dutch group participations at international oil and gas exhibitions throughout the world. The selection of exhibitions is made by IRO's Committee on Commercial and Financial Affairs under the criteria whether it is an oil & gas show and whether the region, on which the exhibition focuses, is interesting enough for Dutch companies. An important criteria is also the interest shown by companies during meetings, visits, the annual exhibition survey and so on. In this way, participation in well known and established, as well as in promising exhibitions is possible. The Dutch contribution at the OE is easy to locate, in the middle of halls 2 (near the aft most entrance from Arena to hall 2) with booth numbers 946h, 946g, 946f, 946e, 946d, 946c, 946b, 946a, 945g, 945f, 945e, 945d, 945c, 945b, 945a, 1045i, 1045h, 1045g, 1045f, 1045e, 1045d, 1045c and 1045b.

Registration

Registration can be done online, by filling out a questionnaire on the site, after which you can choose how to receive your entry badge: at the self service terminal on site or by traditional mail.

When adding some extra information during registration, the organisation can provide you with the most relevant information on SPE Offshore Europe and help you plan your visit.

Exhibitors preview

On the following pages you will find a brief introduction of some of the exhibitors attending the upcoming 'Offshore Europe 2009 Exhibition'.

Conference & Exhibition Location

Aberdeen Exhibition & Conference Centre
Ellon Road
Bridge of Don
Aberdeen AB23 8BL, UK
Tel: +44 (0) 1224 824824
Fax: +44 (0) 1224 825276
E-mail: aecc@aecc.co.uk
Website: www.aecc.co.uk

SPE International Office Location (for Europe, Russia, Caspian, & Sub-Saharan Africa)

Office Hours : 09:00 to 17:00 (GMT) from Monday to Friday

First Floor
Threeways House
40/44 Clipstone Street
London W1W 5DW, UK
Tel: +44 (0) 20 7299 3300
Fax: +44 (0) 20 7299 3309
Email: spelon@spe.org
SPE Office website: http://www.spe.org
Conference and exhibition website :
www.offshore-europe.co.uk

Opening Times

Tuesday September 08th to
Thursday September 10th 2009
from 09.30 - 18.00 hrs
Friday September 11th, 2009
from 09.30 - 14.00 hrs

EXHIBITORS
Products & Services Preview

AMARCON Stand 946G

Who Are We?

Amarcon is specialized and market leader in ship and offshore hydrodynamics and ship performance predictions in waves. Amarcon has key expertise in ship motion and performance analyses, software development and system integration. Amarcon bridges the gap between fundamental research and daily ship and offshore operation practice.

What Are We Doing?

Amarcon is committed to serve the maritime industry by being a product and market innovator in the industry of onboard advisory systems. In order to meet the needs of clients, we co-operate with strategic partners like system integrators, Classification Societies and weather forecast providers.

- Our system enhances the safety of crew, vessel and cargo;
- We offer you the chance to compete and win against your competitors;
- Saving fuel and operating costs means a financial benefit for your company.

What Are We Offering?

OCTOPUS-Onboard:

Combines information of wave measurements, weather forecasts, and navigation data like speed, course, RPM, the voyageplan, the ship characteristics, the loading condition and motion sensors. This enables continuous monitoring, simulation and forecasting of the ship responses and performance. Advice can be given against possible hazards and their consequences.

OCTOPUS-TMS:

Is a highly stable instrument designed for the measurement of ship motions. Accelerations can be monitored in real-time in any 'virtual' sensor location.

OCTOPUS-Online:

Is the secured web-portal where information received from vessels equipped with OCTOPUSOnboard is stored, displayed and made downloadable for internet users.

OCTOPUS-Office 6:

Is a modular, state-of-the-art and user-friendly software toolbox for seakeeping analysis of ships and other floating structures.

Amarcon is proud that the World-leadingshipping companies are using OCTOPUS-Onboard. CMA CGM (world's #3 container liner) ordered the system for the complete fleet. Dockwise Shipping (world's #1 in heavy cargo transport) announced the implementation of OCTOPUS on his complete fleet with the slogan 'Safe in the arms of OCTOPUS'.

I: www.amarcon.com

BAKKER SLIEDRECHT Stand 946C,

Bakker Sliedrecht a dedicated marine system integrator, continuously innovating, for instance with:

- in-house built compact direct water-cooled frequency converters, with a wide area of possibilities, for many applications, e.g. for diesel-electric propulsion up to for example pumps, winches and cranes
- BIMAC advanced alarm and monitoring system, control via touch screens to monitor every process on board
- submersible motors, specially designed for direct or indirect driving of a.o. pumps and cutters
- the process of system integration, with a combination of above and other systems many projects are executed, locally as well as internationally, on turn-key basis or as a package deal and with a passion for technology and delivering an unmatched level of custom service

Some highlights of offshore projects involved:

Turn-key deliveries

For the innovative heavy lifting vessel HLV 5000 for Seaway Heavy Lifting, built at IHC Merwede / Krimpen Shipyard, we developed a diesel-electric propulsion concept, featuring a redundant energy generation and propulsion system.

The thruster motors are fed and controlled by direct water-cooled frequency converters. Together with the Kongsberg ship management / DP system (DP3 notation) this enables an optimisation of the availability. This turn-key project, executed by the Combination Croon Bakker, also includes, switchboards, controldesks, cabling, training, etc.

Further the renewable of the six (6) thrusterdrives of 3000 kW each on a DP2 base for the "Q4000" for Helix, which is a client-specific designed self-propelled semi-submersible offshore work platform for drilling, well intervention, heavy lift and pipelay, adjusted in Galveston - Texas USA

Containerised drilling rigs LOC 400

Bakker Sliedrecht designed and delivered the complete 24-pulse drive systems, including transformers for 4 containerised land and offshore casing drilling rigs LOC 400 for

Huisman-Itrec, comprising amongst others the drives for the draw works, several winches and the mud pumps.

SPECIAL PROJECTS:
For two innovative heavy lift vessels for Jumboshipping, with 800 tons mast cranes, built at Damen Shipyards in Romania, Bakker Sliedrecht will design, produce and supply the drive system for the side thrusters, consisting of 2 bowthrusters of 1,500 kW and an azimuth thruster of 1,700 kW with DP2 notation All will be regulated and supplied by the new generation direct water-cooled frequency drives, the mast cranes are fed through a Bakker Sliedrecht air-cooled multi-drive.
For two supply vessels for A.P. Moller we delivered the electrical drive system for 500 tons towing/anchor winches, driven by 2 motors of 1200 kW. The purpose of the winch system is to handle anchors with the anchor drum and towing of floating objects with both 400 tons towing drums with a safeguard by satellite for Bakker assistance. For the diving support vessel for the Scottish company Subsea7, SEVEN ATLANTIC, with DP3 notation, we, in close co-operation with Croon, executed the engineering, manufacturing and mounting of the complete electrical installation. This includes high- as well as low voltage, a redundant energy system, propulsion and thrusters drive systems, all controlled by Bakker Sliedrecht direct water-cooled compact frequency converters.
For the just keel-laid pipe-lay barge SEVEN PACIFIC, we will supply the same installation as for the SEVEN ATLANTIC on a DP2 base. In this moment we are also modifying and renewing the electric installation and system for the TAKLIFT 4.
I: www.bakkersliedrecht.com

HERTEL DEFENCE & OFFSHORE Stand 946A

The expertise of Hertel Defence & Offshore is built on the legacy of Hertel Marine Services, McGill Services and CKT Projects. Through the amalgation of these companies this organisation is able to provide turn-key solutions for the Defence & Offshore markets and in following activities:
– Project Management
– Feasibility Studies
– Design
– Global Procurement
– Material Supply
– Fabrication and Erection
– Testing / Inspection
– Commissioning
– (Fabrication) Supervision
– Training
– Integrated Logistic Support

Perform
Hertel Defence & Offshore has over 110 years of experience and operates worldwide. We are a
dedicated group of professional project managers, engineers and technicians, taking pride in our longstanding and well established relationships with our international customers.

Deliver
We specialise in the design and fabrication of turn-key:
– Accommodation Modules
– Technical Modules
– Special Containers
– Defence Logistic Support Equipment
– HVAC systems
– Architectural Outfitting and Insulation Works
– Outfitting of Naval and Merchant Vessels
– Prefabricated Cabins

For the Defence, Shipbuilding and Offshore markets such as offshore platforms and barges, as well as merchant and naval vessels. We also provide multidisciplinary maintenance services, upgrades and refurbishments.

Improve:
Hertel Defence & Offshore continuously invests in people, innovations, reliability, safety, quality and services for your benefit. We cooperate with scientific institutes, who support our extensive studies into new developments which contributes to our outstanding quality and advanced
technology. This allows us to deliver state-of-the-art solutions; our latest development is
our patented "plug and play" prefabricated cabin units.
I: www.hertel.com

KEPPEL VEROLME Stand 946D

Keppel Verolme, a wholly-owned subsidiary of Keppel Offshore and Marine Ltd, spans over 54 hectares in Rotterdam's Botlek area. This location in the Port of Rotterdam offers convenient access to both the North Sea and much of the vast industrial hinterland of Western and Central Europe. It is the first repair yard available when entering the Port of Rotterdam from either the English Channel or the North Sea. The yard is situated at only 11 miles sailing distance from the open sea, without any restrictions like overhead obstacles
Yard can accommodate any seagoing vessel and floating offshore unit. The facilities of the Keppel Verolme yard comprise workshops and warehouses, three graven dry-docks, with the largest drydock measuring 405 meters in length and 90 meters in width, almost 2000 meters of quay side with a water depth of up to 12.50 meters, all equipped with suitable craneage.
Keppel Verolme works according quality management system which is based on the NEN-EN-ISO 9001:2008 requirements. Yard is VCA** and ISPS certified.
With these excellent facilities, the ideal location of the yard, the high skills of dedicated employees, vast experience, the strength of the Keppel Offshore & Marine group, and willingness to adapt to ever changing market situations, Keppel Verolme will continue to offer her clients creative solutions.
I: keppelverolme.nl

SEATOOLS BV Stand 1045G

Tailor-made Subsea Solutions

Seatools was founded in August 1999 by a team of specialists with many years of experience in underwater and offshore technology. This team proven qualities in the design and building of high quality tailor made equipment. Seatools' track record clearly demonstrates the experience with a wide range of products used worldwide in the dredging, offshore and civil underwater industries.

Products include special purpose tools, sensors and instrumentation systems, special purpose ROVs, pipe- and cable trenching machines and special purpose winches.

The success of Seatools is due to the "all in one company" concept.
Within Seatools all disciplines work closely together, resulting in:
- Short communication lines
- Fast response
- Synergy
- Large knowledge base
- Innovative solutions
- After sales & commissioning
- Training

I: www.seatools.nl

THRUSTMASTER Stand 1438

Thrustmaster of Texas Portable Dynamic Positioning Systems (PDPS)

Thrustmaster of Texas has developed a portable dynamic positioning system consisting of modular, deck mounted, azimuthing thrusters with separate hydraulic power units and a DP control console. The whole system can be installed dockside, takes a minimum of deck space and does not require any permanent vessel modifications. Installation can be completed within days.
The portable thrusters use direct hydraulic drive to the propeller. The variable speed hydrostatic drive motor is in the lower foot of the thruster directly in line with the propeller shaft. This direct hydraulic drive eliminates the need for right angle gear transmissions and drive shafts used on other thrusters. There are no moving parts in the thruster stem, this makes it an extremely simple and reliable thruster design. It allows mounting on deck without intermediate stem support. The upper structure is designed to handle the omni-directional cantilever moment from the thruster in much the same way as a deck crane handles the cantilever moment of its load. The

stem length can easily be adapted to accommodate different vessel depths. The hydraulic system acts as a vibration dampener. Propeller induced vibrations and engine induced vibrations are dampened by the hydraulic system and isolated from one another. There are no torsional or lateral cri
tical speeds within the operating range of the equipment. The drive is extremely smooth. Propeller speed is infinitely controlled through control of pump displacement. The DP computer accurately controls thruster output by comparing its electrical output signal to the pressure feedback signal from the hydraulic drive. Hydraulic pressure is directly proportional to propeller torque, so the feedback accurately represents delivered thrust, unlike speed feedbacks used on most older systems. Hydraulic systems are extremely reliable, provided they are properly designed and the hydraulic fluid stays clean and cool.

Portable Hydraulic Power Units

Each thruster is powered by its own hydraulic power unit. These power units are enclosed marine type hydrostatic transmission units using a radiator cooled Caterpillar diesel engine as prime mover. Some of these units use a standard 20 foot or 40 foot ISO container as enclosure. They may be installed at any location based on deck space availability or optimum weight distribution

Portable Control Console

The systems use a Kongsberg or equivalent DP computer system designed specifically for use with Thrustmaster's hydraulically driven azimuthing thrusters. It is installed in a portable control console for indoor installation on the bridge. Optionally, Thrustmaster can provide a complete integrated control van with DP System, manual controls, gyros, wind sensors, DGPS antenna, etc. all installed and pre-wired. The display provides a centralized report to the operator of all aspects of vessel control. Classification Society certification by ABS or DNV is available up to DPS-3.
I: www.thrustmastereurope.com