

SUBSEA UK NEWS

THE MAGAZINE FROM SUBSEA UK

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NOVEMBER 2011



EUROPEAN SUBSEA SURGE

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NEW Members

Sep - 11

- Abercus
- Apollo Offshore Engineering Ltd.
- Astrimar Ltd.
- Bowtech Products Limited

Oct - 11

- Hiretech Ltd
- Maersk Oil North Sea UK Ltd
- Offshore Energy
- OSM Crew Management Aberdeen Ltd
- Petrex Limited
- Shepherd Offshore Services Limited
- Zetechtics Ltd



As we near the end of 2011, we see the subsea industry continue to perform as a global leader and outperform other industries in the UK as a major growth sector. Following on from a very successful Offshore Europe event, we heard of some major project commitments in the UK sector ensuring we have a strong, long term domestic market. On the other hand, overseas interest in our technology and skills continues to grow with many regions of the world looking to the UK as an example to follow. The UK subsea industry is valued at £6 billion and more than half is attributed to exports, which makes the sector an important contributor to the economy.

The challenge for the future is to maintain the UK's position as global leader in subsea and ensure we have the correct mix of technology and innovation to meet the challenges in our working environment. There are huge opportunities for us globally as well as here in the UK and we must continue to promote our industry to gain the recognition it deserves to ensure we have support going forward. I do believe we have a great story to tell and if we get our story across to a wider audience we will certainly increase the awareness of long term opportunities in a high tech industry. This would help with the ongoing issue of attracting the best new talent to work in a technology driven, exciting, and rewarding industry with global opportunities.

As part of engaging with potential future talent, we are embarking on a series of awareness visits to a number of Universities throughout the UK to tell the subsea story and encourage students to embark on a career path in subsea. This is a small step in the challenge to raise the profile of the industry, but small steps in the right direction can lead to more significant achievements, as some of our other initiatives in the pipeline with schools and colleges materialise.

Our relationship with UKTI is an important one and we will continue to work alongside them with our members to ensure they can get support to exploit overseas markets. There are some strong areas of opportunity but it is critical that businesses get the information they need to make smart decisions going into foreign markets. There have been some initiatives to help smaller organisations enter overseas markets, to help reduce their exposure, and in times when finance support can be more challenging it is essential that the risk is reduced.

This year's impressive Subsea Europe conference programme features industry speakers at the top of their game. During these discussions, the increasing challenges of subsea integrity will be scrutinised. The UK's subsea industry prides itself on its game-changing approach to technological developments and this year's exhibition is a true example of British innovation and technology.

In this edition of the magazine we'll hear of the various significant achievements of our members in the UK and overseas; their technical ingenuity, successes and innovative vision. The UK is at the very core of the subsea industry; we're the ones making waves across the world. Let's make sure we keep it that way.

Enjoy the issue.

Neil Gordon,
Chief Executive, Subsea UK

Forthcoming Events 2011-2012

14-15 November 2011	Subsea Europe 2011 Paris
01 December 2011	Subsea Pipeline Integrity Management London
08-09 February 2012	Subsea 2012 Aberdeen
22-24 February 2012	Subsea Australasia 2012 Perth
22-24 May 2012	MOC Egypt Alexandria, Egypt

Please visit www.subseauk.com for details of forthcoming events.



Subsea UK Awards Scholarships

An Aberdeen based engineer has become one of the first recipients of a new £7,500 scholarship, awarded by subsea industry body Subsea UK.

Yasaman Zirakzadeh, a senior electronic engineer at Aker Solutions is one of two subsea engineers to have been recognised with the grant. Darren Brown, a development engineer for First Subsea in Lancaster, will also be supported through his studies.

This is the first year that Subsea UK has awarded the scholarship prize in an effort to increase the number of highly skilled and qualified subsea engineers in the industry. The annual award will enable the two successful candidates to study towards a post-graduate MSc in subsea engineering and management.

Subsea UK chief executive, Neil Gordon, said: "These scholarships are part of our drive to address the challenges of developing a new pipeline of young engineers coming into the industry. There are some pinch points in terms of skills looming and, if the UK is to remain at the forefront in subsea around the world, we must promote and drive forward other initiatives to create a new pool of future talent.

"We launched this scholarship initiative to give talented, professional and determined young engineers a helping hand towards a bright engineering future in subsea and are delighted to award the first of these annual grants".

Yasaman Zirakzadeh said she was grateful to be given such a "terrific opportunity".

The 29-year-old who lives and will study in Aberdeen said: "I am really pleased to be granted this scholarship, it

is a major boost to my career development in subsea.

"I will be studying my MSc in subsea engineering while working full time and I am really looking forward to it."

The post-graduate masters scholarship supports students by financing up to 80% of the total annual costs a maximum of £7,500 for a full-time course and £3,500 for a part-time course. The funds can be used to finance course material, books, travel, subsistence and accommodation - on top of the initial course fees.

Darren, who will be studying part-time at Newcastle University, said: "It has been a goal of mine to obtain my MSc and fulfil my potential as an engineer.

"This opportunity will allow me to refine my skills in order to further progress up the career ladder. I am looking forward to getting my head down, gaining my qualification and hopefully becoming a chartered engineer in the subsea sector."

The scholarship will be paid to the sponsoring company and the student must undertake to continue in the employment of that company for a minimum of two years after completion of the degree programme.

Subsea UK champions the UK subsea supply chain, representing over 200 members. It acts as a focal point for all member companies to promote the sector and maximise its opportunities at home and abroad and provides a national forum for collaboration, diversification and technology development.

The last review of the subsea sector in 2010 revealed that the UK subsea sector supports 50,000 jobs and generates £6 billion in revenues and exporting around 56% of those revenues.

New Elections to the Subsea Board

Subsea UK has recently appointed its 10 new board members for the coming two years by vote at the Annual General Meeting, held in November at the Gordon Highlander's Museum in Aberdeen. Subsea UK is pleased to announce the following appointments, bringing their unique skills and talents to the team:



William Edgar

Bill is an honours graduate in Engineering from Strathclyde and Birmingham Universities. He is a Chartered Engineer and has been awarded Fellowships by the Institution of Mechanical Engineering, The Royal Academy of Engineering and the Royal Society of Edinburgh. He is a past President of the Institution of Mechanical Engineering and is a Liveryman of the Worshipful Company of Engineers. He has been involved in the Subsea and Offshore Oil and Gas Industry for over 35 years. As a Group Director of Seaforth Maritime Ltd he was Managing Director of Seaforth Engineering which became the global leader in the design, construction and installation of advanced class saturation diving systems and which designed and built the original Underwater Training Centre at Fort William and the National Hyperbaric Centre in Aberdeen. As a Group Director of the John Wood Group he was responsible for the Engineering and Production facilities Division and was Chairman of the J.P. Kenny Group for 10 years. He is a past Chairman of the Offshore Construction Association.



Frank Bee

Frank graduated from Nottingham University in 1981 after completing a degree in Electronic and Electrical Engineering. He spent his first 10 years working for BP in the UK and Middle East in a variety of technical and project management roles.

Frank spent the next 10 years from 1992 to 2002 working for Enterprise Oil in engineering, project management and operational management roles with his final role as UK engineering manager. Following the takeover of Enterprise Oil by Shell in 2002, Frank moved to Shell in Aberdeen as a project manager on the Pierce redevelopment project, followed by a role as head of facilities projects for Shell in UK and Norway. Frank moved to his current position as head of subsea across Europe, responsible for subsea opex and capex works in 2008.



Geoff Fisher

Geoff is a senior professional within the Technip organisation with a proven track record in the management of subsea project delivery. With some 28 years' oil and gas industry experience, from an early offshore career in diving, he has acquired extensive experience in the management of high value oil and gas infrastructure projects.

In early 2010, Technip Chairman, Mr Thierry Pilenko, announced Aberdeen as the company's European Renewable Energy centre. As General Manager (Renewable Energy), Geoff played a key role in identifying Technip's point of entry into the Offshore Wind sector and the creation of Technip Offshore Wind Ltd, of which he is a Director. As Vice President of TOWL Cables Division, Geoff is actively involved in developing Technip Offshore Wind's strategy and service offering to the Offshore Wind & Marine Renewables space.



Geoff Lyons

Geoff is a co-founder of BPP-TECH. As a Chartered Engineer he is a Fellow of The Institution of Mechanical Engineers and also of the Royal Institution of Naval Architects.

He has been active in the offshore sector since 1979 previously working with Brown & Root, and as a member of research and academic staff (senior lecturer) at University College London until 2002.

Geoff's experience covers a wide range of complementary activities including in the field offshore as well as in the office,

although a significant part of his time is spent abroad supporting his company's business.

Geoff is very familiar with the professional and training needs of the Subsea industry as an ex-academic and currently as the BPP-TECH training co-ordinator and as a mentor for prospective Chartered and Incorporated Engineers with the various professional engineering institutions.



John Mair

John Mair has over 30 years' worth of experience in Subsea engineering, and has been a member of the Subsea UK board for a number of years.

Subsea 7 is a major player in the Subsea business. John's experience and position of Technology Director within Subsea 7 enables him to bring to the table a valued view on the global subsea market, technology issues and promotion.

John proactively promotes UK technology and capability and his contribution to the industry was acknowledged by the award for "Greatest Contribution to the Subsea Industry", which he received at Subsea '07.

John is also the Chairman of STAG, the industry steering group for the National Subsea Research Institute and is an active member of their board.



Ian Mitchell

Ian has worked in the subsea industry for over 30 years. In the early part of his career he worked for Shell, KD Marine, Global Diving, Underwater Inspection Services, & Seaway Diving. He spent four years at Oceaneering International as Subsea Project Engineer.

Ian joined BP in 1985. Moving onshore he supported the development of BP safety cases and helped develop BP's overall approach to safety management for subsea operations.

In 2001 he became Operational Excellence Team Leader managing a multi-disciplined team of 45 personnel supporting BP's Global Operations (subsea and topside) via the BP Upstream Technology Group

Since 2003 he has held positions as Project Manager on the initial stages of Forties Pipeline system Hot-Tap project, Regional Subsea Team Leader, Subsea Strategy Team Leader, and he also acted as Head of Subsea & Pipelines during the recent restructuring in 2009-2010.

Ian is currently Subsea Advisor and Performance Manager, responsible for subsea cost & planning systems and subsea recruitment.



Fraser Moonie

Fraser Moonie, Managing Director for Bibby Offshore, holds a Quantity Surveying degree from Glasgow Caledonian University and an MBA with distinction from Aberdeen Business School, Robert Gordon's University. He is also a Chartered Surveyor and member of the Royal Institution of Chartered Surveyors.

Following a number of years in the onshore construction industry, Fraser entered the subsea and offshore industry in 1997. Since then he has worked exclusively in engineering and subsea construction contracting.

Fraser joined Bibby Offshore in 2003. Within his current role of Managing Director, he is responsible for the management of the trading business.



Alan Nicol

Alan started his career in the subsea sector in the 70's as an engineer providing offshore technical support in the saturation diving side of the business. Following 12 years working offshore, he moved onshore to an equipment design and manufacturing company providing equipment and services to an international customer base. Recently

Alan has focused on the unmanned subsea industry coupled to survey related underwater activities. His experience ranges from the management of an SME ROV service provider, through to the general management of a multi national Survey & ROV company. Alan is presently Operations Director with Nautronix.



Paddy O'Brien

Dr O'Brien is Group Director of Strategic Business & Marketing at Wood Group Kenny. He is a chartered engineer with close to 30 years' industry experience. His technical areas of expertise include riser mechanics, riser design and flexible pipe technology. He is executive director at riser specialist company MCS Kenny, now a business within

Wood Group Kenny. Dr O'Brien plays an active role in a number of industry bodies, including Subsea UK, and regularly presents technical papers at industry conferences around the world. He is an honorary professor of engineering at the University of Aberdeen.



Tim Sheehan

Tim qualified as a Mechanical Engineer in 1980 from Coventry Technical College, having served a technical apprenticeship in the Automotive Industry. With 30 years of experience in the Offshore Oil and Gas Industry, Tim has during his career held a variety of roles in the oil and gas industry specialising in Subsea engineering, including Sales Director with

Balmoral Group, Vice President Commercial for Technip in Houston and Managing Director of Bibby Offshore. Notably in recent years, he was both the MD of subsea contracting major Acergy UK, and Deputy Regional Vice President for its Northern Europe and Canada region. Tim joined Rotech as Group CEO in January of 2010 and is responsible for the day to day management of the business and for developing the forward strategy.



Denise Smiles

Denise is the Commercial Director of OMS. She is responsible for Strategy, Projects, Contracts, QHSE and HR. She developed OMS' business strategy and multi-term business plan to enable the company to grow in accordance with the business plan objectives. To date, the company has achieved 100% growth each year from 2006 to

2010. She also established and managed the development of the sales division of the company – including setting up a US office, appointment of VP Sales (USA) and Director of Client Solutions (UK). A commercial contracts lawyer by training, Denise obtained an MA in Business Management & Strategy in 2002.



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PD&MS Energy Announces Brazil Expansion as Demand for its Engineering Solutions Grows

Wilton Group company, PD&MS Energy, has launched two new operations in Brazil as part of an international strategy to grow the oil and gas design, fabrication, installation and maintenance specialist.

PD&MS Energy (Brazil) Soluções de Energia Ltd has already secured rig upgrade contracts with a global drilling specialist. The company, which now has bases in Rio de Janeiro and Macae, delivers a range of solutions from initial survey work to upgrades, repair and client specific modifications.

Bill Scott, Wilton Group Chief Executive, said: "Our international expansion forms a key part of the overall plan at the Wilton Group and we will continue to evaluate other oil producing areas as we look to develop the business."

Des Hatfield, Wilton Group Business Development Director, said: "We have worked with a number of drilling companies in the past and their expansion into Brazil has led to PD&MS Energy setting up our Brazilian operations at two locations.

"The new business unit will initially offer surveying, design and engineering support to drilling contractors. We estimate that there are currently 60 rigs in the area with the potential for this to almost triple in the next four to five years.

"This is the first step and we are looking to set up a design and repair facility in Brazil to support ongoing operations."

Garron Lees, Business Development Manager at PD&MS Energy in Aberdeen, said: "PD&MS can offer engineering expertise to add value to challenging, and technically demanding, deepwater projects.

"Our experience of working with drilling contractors means we have a strong understanding of their projects and requirements. There are also pipelaying and FPSO support vessel opportunities for PD&MS in Brazil."



Forum Subsea Technologies Launches New Test Facility at Kirkbymoorside

Forum Subsea Technologies has recently opened a new £1million test and R&D facility at their manufacturing base in Kirkbymoorside, world renowned for the design and manufacture of Perry Slingsby Systems' product range, including the Perry Slingsby XLX and XLR work class vehicles and customised subsea tooling and equipment.

The 1,350sqm purpose built facility, designed to support a wide range of subsea technologies including vehicle integration and production testing, also boasts the UK's largest hyperbaric chamber capable of testing down to 2,400m.

The building combines two test areas, with training rooms for customer support services and product demonstrations, as well as a dedicated R&D centre. The ROV and tooling test area, has the capability to integrate four ROVs in parallel and houses a large pool with the capacity to fully submerge a large trencher build. The hyperbaric test area includes a large chamber of over eight metres in length and a diameter of 2.3m as well as smaller chambers.

Perry Slingsby has a proven track record for delivering reliable products and innovative technologies, therefore the expansion at Kirkbymoorside, to include an extended R&D hub, underlines their commitment to new product development and keeps the Forum Subsea business at the forefront of cutting edge ROV and tooling design. New products currently under development include the XT1200 flow line and cable burial system, capable of burying products up to 90cms in diameter and trenching to three metres. The new system also incorporates the unique ring frame

structure and 'steady jet' vertical tool deployment, a product of major research initiatives and market leading expertise in this field.

Also due to be unveiled is the Sub-Atlantic Tomahawk; a small observation ROV which can be deployed with a 'top hat' tether management system. The Tomahawk will be manufactured at the Forum manufacturing facility in Blackburn, on the outskirts of Aberdeen.

"The new facility at Kirkbymoorside is crucial to product development and testing new designs, and hence represents Forum's commitment to technology advancement. The extended capability will ensure our customers that we are ideally positioned to support their offshore operations and businesses," commented Mick Jones, Senior Vice President of Forum Subsea Technologies.

"With a global network in strategic locations, Forum Subsea Technologies offers unrivalled state of the art technologies, services and expertise, with the aim of providing quality products and services to meet the requirements of an increasingly challenging industry. The expanding subsea facility at Kirkbymoorside is another step in the direction to achieving this goal."



Top: Test Pool Above: Hyperbaric Test Chamber

PETREX Delivers First Campaign for Ithaca Athena Development

Petrex Limited, the Aberdeen-based provider of specialist engineering and project management services, has successfully completed the first campaign of the multi-million pound Athena Development for Ithaca Energy.

This first campaign has seen the completion of the FPSO mooring system, which comprises 9 suction piles and associated anchor chains and wire which are connected to the STP Buoy, which is utilised to locate the FPSO at the Athena site.

A significant milestone for Petrex, who look to send a clear message to the market that they are very capable of delivering this scale of project with a relatively small team. Petrex have shown Ithaca that their approach to managing the interface between the client and the contracting supply chain has delivered enormous value.

Commenting on behalf of Ithaca, Athena Project Manager, James Lund said: "The Petrex team continue to show us that they were the right choice for the Athena development, demonstrating they have the required key skill sets at every stage of the development, the continuing success of the Athena project has been in a large part down to the Petrex project



From left to right: Tony Evans, James Lund and Steve Dempster

team. We look forward to their continued support on Athena and with future projects."

Steve Dempster, Petrex Managing Director, said: "Our focus remains the same as it would for any client. We field a strong, experienced team that can integrate and manage the project from cradle to grave. We have a fresh and dynamic approach to

delivering projects, such as Athena. Our promise to our clients is that we will never over-commit and we will deliver each project in-line with their expectations or better. Good reputation is so important for us and we will continue to grow the business on our achievements and the quality of the service that we offer."

CTC Completes Surface Lay on Jeju Project

CTC Marine Projects Ltd, a subsidiary of DeepOcean Group Holding AS, has safely and successfully completed the Pole 1 and 2 surface laying campaigns on the Jeju project in South Korea.

The Maersk Responder has laid two cable bundles between Jeju Island and Jindo Mainland Korea, which will provide further power to the island as well as data for first internet connection.

In total CTC has completed the surface lay of over 600 kilometres or 13,000 tonnes of High Voltage Direct Current (HVDC) cables and Fibre Optic Cables (FOC) in what has been a complex and challenging workscope. In late June, CTC completed the record breaking mobilisation of the Maersk Responder in Donghae Port, Korea, carrying a weight of the over 7,000 tonnes of HVDC cable onboard.

The Maersk Responder has now offloaded the remaining cable at the factory in Donghae and commenced demobilisation from Korea. CTC will continue to complete trenching operations on the Pole 1 campaign using the DP2 Volantis vessel, accompanied with the world's most powerful jet trenching Remotely Operated Vehicle (ROV), UT-1.



Jeju Shore end 2011

L&N Launch New Business In Aberdeen

L&N have launched a new business in Aberdeen with valve-control manufacturer Paladon Systems and safety-system company HG Safety.

The trio of companies are to invest a combined £1million in the new venture and are looking for offices in the centre of Aberdeen for an eight-strong engineering design team. Manufacturing will be carried out at L&N's workshop in Dyce.

HIPPSCO will build high integrity pressure-protection systems (HIPPS), which protect operations from over-pressurisation by shutting off the source.

L&N Managing Director, Alastair Chalmers said the HIPPS would give operators greater peace of mind, adding: "As oil and gas resources become harder to find, producers are forced to operate in higher risk environments and safety is paramount in protecting personnel, infrastructure and the environment."

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Penspen Group Appoints Subsea Systems Specialist Nick Haines to Expand Deep Water Consultancy in London



Nick Haines, Penspen

International Oil and Gas experts The Penspen Group have announced the appointment of Senior Subsea Specialist Nick Haines to their Offshore engineering stream in London. With over 23 years' experience in the subsea industry, Nick brings extensive experience of equipment design, manufacture, testing & commissioning, offshore installation and engineering management.

Fresh from his previous role managing engineering project teams and deepwater developments at JP Kenny, Nick has particular experience in designing and manufacturing subsea controls systems (SCS) and subsea production systems (SPS) and his extensive previous experience includes a four-year stint as Engineering Manager for BP's ultra deepwater Block 31 field off the coast of Angola.

Though primarily London-based, Nick will work closely with colleagues across the Offshore stream to provide comprehensive client support for subsea and specifically deepwater field development studies and projects, internationally.

Nick said: "I'm looking forward to working with Penspen's long-established offshore stream to embrace new projects and challenges. Above all, I'm looking forward to helping expand its rapidly-growing business further still."

London Head of Offshore Colin Cross, said: "I'm delighted to welcome Nick to the team to help expand and consolidate Penspen's deep water consultancy expertise in the London office, and expand our subsea technology and deepwater consultancy internationally. His expertise in these key markets is second to none and I have no doubt he will be an excellent asset to the team."

Prospect Expands its Engineering Team



John White, Engineering Manager

Prospect, a Superior Energy Services company, announces a key addition to its Aberdeen-based engineering team with the appointment of Dr. John White as Engineering Manager.

Highly experienced in mechanical engineering, John White has held senior managerial and engineering positions in sectors ranging from high-volume automotive manufacturing to the oil and gas industries. In 1998, he was awarded a PhD in Mechanical Engineering from The University of Birmingham. This was followed by an MBA from Napier University in 2003. He is currently on course to receive an MSc in Subsea Engineering from the University of Aberdeen in 2012.

"We are delighted that John is joining us as Engineering Manager," comments Prospect's UK Business Director, Colin Shellard. "He will strengthen the team with his wide ranging engineering background and his recent experience in the offshore umbilical installation sector. His proven leadership skills in engineering analysis will add greatly to our established track record of delivering exactly what our clients need."

"This is an exciting time to be joining Prospect's managerial team," John White adds. "The company already has strong technical capabilities and an excellent reputation. I look forward to working with the team and increasing the company's global involvement in high-value advanced engineering projects."

Roxar Launches Downhole Flow Sensor System at Offshore Europe

Roxar Flow Measurement Ltd, the Aberdeen-based arm of Norwegian company Roxar, launched its new downhole flow sensor system at Offshore Europe 2011.

The new system improves the understanding of reservoir flow from different well zones and branches and opens a new window into subsea production operations.

The system will, for the first time, generate downhole multiphase flow measurements from within the well, giving operators an increased understanding of reservoir flow, zonal contributions from wells and increased production control and optimisation.

Svenn Haugen, World Area Director Europe and North Africa of Roxar Flow Measurement, said: "The new downhole sensor is a real breakthrough in reservoir monitoring and flow assurance as it provides operators with data on flow from specific well zones rather than total production flow data."

"This is a particularly exciting product for the UK offshore sector as the sensors ability to provide full multiphase measurements of flow rates will help operators increase field recovery."

Since acquiring Aberdeen oil service company PolyOil in 2008, Roxar has increased its north-east workforce to 11 staff, and the firm employs over 100 people throughout the UK with offices in London and Oxford, in addition to Aberdeen.

It is expected that the company's Aberdeen workforce will grow substantially over the next few years to meet growing operator demand for advance flow technologies.



Sven Haugen, World Area Manager, at the Offshore Europe 2011 exhibition



VA500 Altimeter a new approach to subsea distance measurement

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Valeport Advances Subsea Distance Measurement with New Altimeter

Leading oceanographic instrument manufacturer, Valeport, is delighted to announce its latest innovation, the VA500 Altimeter. The VA500 is launched in November and introduces advanced new technology for underwater positioning in offshore applications.

The VA500 uses a state-of-the-art signal processing system with a 500kHz broadband transducer to provide stable, repeatable readings to a resolution of 1mm over a range of 0.2m-100m. The system takes a significant step forward in performance for a 500kHz altimeter.

With a wide range of power supply options and both analogue and digital outputs, the VA500 offers great flexibility for the needs of the ROV, AUV and hydrographic community. Digital RS232 and RS485 interfaces, as well as analogue 0-5V and 0-10V outputs are fitted as standard. The VA500 will interface to the Valeport Bathypack and those of other manufacturers.

As an option, the VA500 may be fitted with a high accuracy (0.01%) pressure sensor, as used in Valeport's MiniIPS (Intelligent Pressure Sensor), which offers

an unbeatable package for all underwater positioning requirements.

Valeport's Sales and Marketing Manager, Kevin Edwards, explains: "The combination of the altimeter and pressure sensor provides top performance with a more attractive price tag than other systems on the market."

As with all Valeport's products, the VA500 is sealed in a robust titanium package as standard, in order to eliminate the corrosion issues associated with lower cost metals. Both OEM and right-angled package configurations are also available on request.



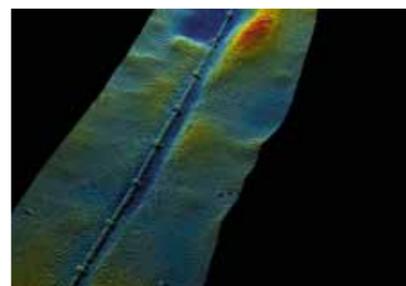
Kongsberg Maritime Subsea Seminar 2011

Kongsberg Maritime, global leaders of marine technology, have today announced that they will be holding a seminar event in Aberdeen in November to focus on the latest developments in subsea technology. The theme of this year's event, hosted by Kongsberg Maritime Ltd based in Aberdeen will be "Integrating a New Generation of Technology".

The Kongsberg Maritime Subsea Seminar 2011 will feature key speakers from across Europe, who will showcase the latest data gathered using market-leading underwater equipment, and guide delegates through the application of this technology during recent high-performance operations. Topics covered on the day will include the application of subsea technology of autonomous underwater vehicles, high-precision multibeam integration for remotely operated vehicles, inertial navigation and post-processing.

Although there will be a technical element to proceedings, the presentations will focus on the application of subsea equipment during recent projects, the resulting data and conclusions that have been drawn from this data. The event aims to enhance the technical and practical knowledge amongst companies and individuals, ensuring that all users are maximising

productivity of their equipment, helping to increase project efficiency and drive down costs. Delegates will also be introduced to new technology and hear how to use integration of systems to achieve the best results.



The EM2040 Multibeam image of a pipeline

FGRL's DeepWorks Simulates Frictional Forces on Subsea Bodies

Fugro GRL's DeepWorks simulator now allows users to model friction acting on dynamic bodies like cables and ROVs when they come into contact with each other or with the seabed. This adds realism to subsea simulations.

Friction is an important component in forecasting the behaviour of both moving and stationary subsea objects, and DeepWorks now calculates friction forces resulting from any forces acting on the body including gravity. The friction depends on a number of factors including contact area, friction coefficients and, for seabeds, the relief profile.

The level of frictional resistance varies depending on the amount of contact. For instance, cables pulled linearly along the seabed will exhibit much less friction than cables pulled laterally across the seabed. This enables more accurate simulation and visualisation of the motion and final resting place of dynamic bodies that come into contact with those parts of the seabed. This is especially important for ROV supported templates or pipeline installation and for touchdown prediction during cable-lay operations.

DeepWorks now takes account of the combined effect of the prevailing currents and the frictional forces at the points of contact. For ROV pilot training this enables better understanding of the demands on thrusters in moving the ROV from rest on the seafloor to a stand-off position around cables or structures - a routine procedure during construction support, and during inspection of installations for offshore oil and gas or offshore wind farms.

DeepWorks with the friction model is available now, and existing installations can be upgraded.

Tritech Launches Real-Time Riser & Anchor Chain Monitoring System (RAMS) for FPSOs

Tritech, leader in acoustic technologies, has developed a system for the real-time integrity monitoring of mooring lines, umbilicals and risers on Floating Production Storage and Offloading Units (FPSOs).

Recently launched at Offshore Europe in Aberdeen, RAMS (Riser and Anchor Chain Monitoring System) is a 360° riser and anchor chain monitoring system for FPSOs that uses Tritech's proprietary multibeam technology. RAMS is deployed beneath the vessel and monitors the presence, integrity and position of mooring lines and risers 24/7 from a single sonar head.

RAMS has been extensively tested and the accuracy of the system

has shown to be 100% effective in its current deployment on Teekay's Petrojarl Foinaven FPSO, operating on a BP deepwater oil field, within the UKCS (UK Continental Shelf), located approximately 190km (118mi) off the West Coast of Shetland.

RAMS has been developed in conjunction with BP who had a requirement for an automated system able to monitor the series of bend stiffeners, umbilicals and risers on an FPSO. The RAMS technology builds on the leading proprietary multibeam sonar technology developed by SRD prior to its acquisition by Tritech (a Halma Company).

RAMS is deployed beneath an FPSO's turret in the centre of the risers and mooring chains. Through its multibeam sonar array, RAMS can provide simultaneous real-time updates on the status of all lines, with continuous recording and data export. Tritech's unique RAMS technology has the option to provide the end user with an alarm-based system notifying the operator of any out-of-specification movement without delay, in addition to trend data that allows for more accurate fatigue analysis.



SECC Launches Unique Self Sealing Stab

Subsea connector specialist, SECC Oil & Gas, has launched its revolutionary new self-sealing hot stab connector: The Triple S - Self Sealing Stab is the first of its kind to retain pressure during connection and disconnection subsea with no risk of fluid loss or seawater contamination into the line.

Unlike conventional stab connectors, the Triple S produces a 100 per cent dry seal at each end of the bore at the point of connection and disconnection. With no loss of transfer fluids or seawater ingress, the technology eliminates the risk of pollution and the need to flush the lines before reconnection.

The Triple S - Self Sealing Stab can provide reliable connections for multiple ports in a single probe or be packaged to form a ROV stab plate using additional probes for several subsea lines. This, along with its full-bore design, makes the technology ideal for connecting lines transporting high pressure injection and hydraulic fluids to power subsea equipment, such as ROV tooling and controls (IWOCs).

The stab is designed to be connected and disconnected via ROV at depths of up to 10,000ft without the need to depressurise or dewater the line. It is therefore attracting interest from ROV operators seeking to save time and eliminate pollution while making stab plate connections more reliable and lighter using pressure balanced technology.

With its pressure retaining and self sealing capability during disconnection, the device can also be used as part of an emergency dry breakaway solution where drive off protection is required.

Justin Marshall, Business Development Manager at SECC, said: "Anti-pollution measures are high on every operator's safety agenda, and we know from consultations with our oil and service company customers that there is clear demand for a hot stab with high reliability characteristics with zero fluid leak capability."



CTC Marine Projects Becomes a Part of Energi Coast Renewables Hub

CTC Marine Projects, Ltd, a subsidiary of DeepOcean Group Holding AS, is playing a vital role in the newly launched Energi Coast, North East England's Renewables Group.

The group is made up of 19 of North East England's leading energy sector companies, which have come together to promote the extensive expertise of the region's offshore renewables sector and secure a proportion of the £1 billion global market.

CTC is a world leading subsea installation, cable-lay and trenching company with a vast fleet of marine trenching and burial equipment coupled with 20 years of practical experience. It is making significant advances in its business to become the preferred cable installation and trenching contractor in the growing offshore renewables market, and aims to capitalise on this with the support of the Energi Coast.

Stephen Wilson, Business Development Manager – Renewables, CTC, says of the region's new group: "CTC is pleased to be a part of the Energi Coast group, which will recognise and promote the significant capabilities that exist in the North East of England for serving the offshore renewables market."

"Uniquely this region has the whole of the offshore cable supply chain from design, survey, manufacture, installation and trenching, which CTC is an important part of. The region also has all of the balance of plant capabilities, excluding the wind turbine, which will make it attractive to both EPC contractors and developers as a single supply chain source location."

Benefiting from the support of a new parent group, DeepOcean Group Holdings (DOGH), CTC is well placed to strengthen its offshore renewables offering, and as part of the Energi Coast, promote the region's ability to support the up-and-coming offshore renewable projects, particularly in the North Sea.



Flexlife commercial director Charles Cruickshank with Brazil executive manager Leonardo Pessoa Dias, Petrobras chief international officer Jorge Zalda and Flexlife chief executive Stuart Mitchell in Rio de Janeiro after signing the deal.

Subsea Specialist Flexlife Signs Memorandum of Understanding with Petrobras International

Flexlife, an oil & gas industry specialist in subsea project and integrity management, has signed a Memorandum of Understanding with Petrobras to develop and provide a new integrity management system and specialised engineering services for its international oil and gas projects offshore.

The agreement was reached during the recent OTC Brazil exhibition in Rio de Janeiro. It includes the provision of Flexlife's ground-breaking subsea products and services to maintain and extend asset life.

Flexlife Chief Executive Stuart Mitchell said: "This agreement results from Flexlife developing a strong presence in Brazil and we anticipate playing an important role in addressing the challenges of delivering safe production of oil and gas in the deepwater fields. We have a team of engineering, technical and support staff who are all highly experienced in the Brazilian oil and gas market and we are very proud to be working with Petrobras."

As well as investing in new office accommodation in Rio de Janeiro at Rua Assembleia, Flexlife is manufacturing its ground-breaking integrity management products locally and offering a full assembly, deployment and maintenance service by staff based in the region.

Mr Mitchell added: "Flexlife has

continued to build on its reputation for offering a full subsea integrity and project management package, assisting clients to cost-effectively manage all of their subsea assets and infrastructure. We have built up high levels of expertise in deepwater markets and have a proven track record of providing a service that helps operators reduce risk in a cost-effective manner – all of which helped us reach this agreement with Petrobras."

Flexlife has a suite of game-changing products to address common issues facing the subsea sector without interruption to production. As part of its full package of lifecycle subsea services, the company has recently brought to market a number of asset integrity management products offering numerous benefits to operators, helping to improve safety, maximise recovery and avoid unplanned shut-downs.

They build on Flexlife's first, award-winning, ultrasonic (UT) scanning technology devised to scan the annulus of flexible risers and flowlines in situ delivering 100% accurate results.

Flexlife's global HQ is in Aberdeen, Scotland. The company also operates in the US, Africa, the Far East and Mediterranean. It was Scotland's fastest-growing young company in 2010.

Hallin's Windermere Joins the Royal Australian Navy

Australia's Minister for Defence Stephen Smith and Minister for Defence Materiel Jason Clare have announced that the Royal Australian Navy (RAN) will lease the subsea operations vessel Windermere from Hallin Marine, a Superior Energy Services company, to reinforce the RAN's amphibious capability during the Australian region cyclone season which commences in November.

The vessel was chartered through P & O Maritime Services in a A\$9.4 million contract. The Windermere is being chartered from 14 October 2011 to 31 January 2012 with the option of extending to the end of February 2012.

Designed and built to Hallin's specification, the Windermere was launched in 2010 and the vessel is capable of supporting 100 passengers plus 20 crew. Facilities on board include a 700 m² deck plus an elevated helipad at the bow.

The Windermere will operate as part of a three-vessel fleet including HMAS Choules which is scheduled to arrive in December and HMAS Tobruk which is currently being prepared for duty. The Windermere will form a key element of the RAN's humanitarian relief obligations, operating as an



accommodation support vessel in support of the RAN activities.

Windermere is the second of two vessels from the Hallin fleet to be mobilised to Australia with the Carlisle already operating off Western Australia on the Gorgon Development, and has the versatility to provide additional subsea and saturation diving services if required.

The 2011 to 2012 Australian

region cyclone season is an event in the ongoing cycle of tropical cyclone formation. It will officially start on 1 November 2011 and end on 30 April 2012. Tropical cyclones in the region are monitored by the Australian Bureau of Meteorology in Perth, Darwin, and Brisbane; TCWC Jakarta in Indonesia; and TCWC Port Moresby in Papua New Guinea.

Penspen Wins Subsea FEED Contract from EPC Offshore for Ithaca Energy GSA Development

The Offshore business stream of the Penspen Group, Andrew Palmer & Associates, has been contracted to provide the Front End Engineering Design (FEED) for EPC Offshore Limited (EPC) in support of Ithaca Energy's Greater Stella Area (GSA) Development.

Under the terms of agreement, Penspen will provide subsea FEED services to EPC for pipelines and infrastructure to maximise the oil and gas production of the Stella, Harrier and Hurricane fields in the Central North Sea.

The Stella and Harrier fields are located in the Central North Sea within UKCS Block 30/6a, 280 kilometres east-southeast of Aberdeen in a water depth of approximately 85 metres. The Hurricane field lies in UKCS Block 29/10b, approximately 10km west of the Stella field.

Ithaca Energy gained an interest in the Greater Stella Area in 2008 and contracted EPC Offshore to provide project management of the subsea and pipelines elements of the development earlier this year.

Penspen's Director of Offshore and Managing Director of E&PM Ernie Lamza, said: "This contract is an important win which reinforces our strong record in subsea FEED studies. Penspen is looking forward to working with EPC Offshore and Ithaca, utilising our strengths and expertise to optimise the subsea and pipeline elements of the Greater Stella Area development."

Peter Kirkbride, chief operating officer of EPC Offshore said: "Our work with Ithaca demonstrates our growing reputation as the people who turn opportunities into assets. Our focus is on providing the optimum service for our clients and we are pleased Penspen will be part of the continued work on this significant North Sea project."



Ernie Lamza, Director of E&PM

Jee Helps Fill Engineering Skills Gap with Online Training

As companies in the oil and gas industry struggle to find experienced and knowledgeable engineers, Jee, a subsea engineering and training specialist, is aiming to support the industry by providing access to two more specialist pipeline courses online.

These courses have been developed in response to customer demand for a more flexible way to learn. Now delegates can fit training around busy work and personal schedules. Other benefits of learning online include choosing a start date to suit the student, with individual tutor support and studying at their own pace.

Commenting on the development, Jenny Matthew, Head of Courses at Jee Ltd said: "We are delighted to be able to offer our clients a more tailored training programme. We hope that the flexibility of our online courses will increase the pool of skilled engineers in the oil and gas industry."



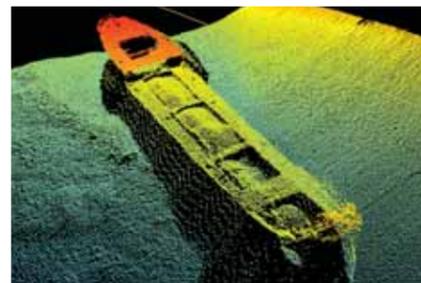
A course on onshore pipelines is available, as well as the design of subsea pipelines – the first instalment was opened in October. Other courses

available to complete online include subsea pipelines, subsea systems, risers, umbilicals and flexibles and construction of subsea pipelines.

Kongsberg Maritime Ltd Introduces Range of New Courses Aimed at Hydrographic Survey Market

Kongsberg Maritime Ltd has announced the introduction of a range of new training courses at its Training & Simulation Centre in Westhill, Aberdeen, aimed at the hydrographic survey market. Building on an already established portfolio of Dynamic Positioning, Automation and Acoustic Positioning courses, the new courses will offer participants technical and operational training on established Kongsberg hydrographic technology, with a focus on their application in the survey market.

The new courses will allow users to maximise their productivity by the use of Kongsberg equipment which provides efficient high quality and accurate data. One of the aims of the new course is to enhance the hydrographic capabilities of offshore



survey operations for effective seabed mapping by ensuring all users, including freelance surveyors, are using the equipment effectively.

Kongsberg Maritime are key suppliers of hydrographic equipment to the survey industry, with hydrographic suites installed on the majority of commercial survey, research and naval hydrographic vessels. Training courses now introduced into the Kongsberg Maritime Training portfolio includes EA 400/600 Singlebeam and SIS Multibeam operator courses, EM Multibeam practical courses covering installation and integration of the system and GeoSwath wide swath bathymetry sonar system training.

David Shand, General Manager Offshore at Kongsberg Maritime, explains: "We recognised that there was a demand from customers to get the most out of their Kongsberg systems by increasing the technical training offered to users to help them achieve maximum efficiency from their equipment. The courses will allow new users of the systems to be trained how to use the systems most effectively, while educating existing users on the latest features, benefits and applications of the technology."

"For those who have experience of other hydrographic equipment, we have instructors with extensive operational and technical experience of using these systems who will tailor the attendees' already acquired knowledge to the Kongsberg equipment. The Multibeam practical courses will also offer a hands-on, interactive learning experience for attendees, with an emphasis on integrating the Kongsberg Multibeam with other systems that will be present on the vessels."

The introduction of the new survey courses at the Training Centre forms part of a company strategy to expand the current portfolio of courses offered at the Training Centre, which is already a leading provider of specialist Dynamic Positioning, Acoustic Positioning and Automation Systems courses. The courses consist of both classroom based lessons and hands-on practical sessions using the latest simulation systems and individual desktop consoles, with an emphasis on replicating realistic scenarios for participants to overcome.

Kongsberg's training centre is located at 15 Abercrombie Court, Arnhall Business Park, Westhill.

Technip Retains Wilderness Challenge in 2011

Competition was fierce as teams from leading subsea contractor Technip took on and conquered the Sailors' Society Wilderness Challenge for the second consecutive year.

Technip's "2 Fast 2 Furious" team of Graham McDonald, Phil Johnston, Bryan Fuller and Alun Jones took first place in the event - in a time of 4 hours 47 minutes - in the Cairngorms, near Aviemore in the Scottish Highlands on Sunday 25 September.

The six Technip teams included participants from the company's vessels, fleet management and R&D engineering business units. Overall, the Technip teams took 1st, 4th, 8th, 13th, 19th and 25th places: fantastic achievements by all, especially for one team which only had three members!

During the event, all 26 participating teams tackled a 50km bike ride, a 3km canoe across Loch Morlich and a 5km hill run to the finish line.

Speaking after the challenge, Willy Gauttier, vice president of Technip Marine Operations Services, said: "To raise money for such a good cause and to have one of our teams winning the Challenge for the second year in a row is a great achievement. We all trained hard in the



run-up to the event and had a lot of fun along the way. Congratulations to all those who took part."

Sailors' Society Events Fundraiser Jo Rich added: "It was a very competitive challenge this year, where the elements were really against the teams. Everyone was delighted with their times, some of the fastest we have ever had! The Sailors' Society would like to thank everyone who took part for their efforts and for their fundraising achievements."

Kongsberg Maritime Ltd Installs Full Suite of Equipment on Fugro Survey's Newest Survey Vessel



Kongsberg Maritime Ltd has recently completed the installation of a suite of Kongsberg equipment onboard Europe's newest geophysical survey vessel: the MV Fugro Galaxy. The newly-built vessel is operated by Fugro Survey Ltd, also based in Aberdeen, and will be deployed to various survey locations worldwide.

The contract to install the Kongsberg technology on the Fugro Galaxy followed a similar agreement

between Kongsberg Maritime and Fugro Survey for the supply of equipment onboard the previously commissioned survey vessel M.V. Fugro Searcher, delivered to Fugro Survey in March 2010. The Fugro Galaxy, 65 metres in length overall, has been built to the same highly technical specifications and designed for maximum performance, safety, efficiency and reliability.

As part of the build project Kongsberg Maritime installed a full

suite of hydrographical equipment onboard the vessel, including the EA400 Singlebeam Echo Sounder, EM710 Multibeam Echo Sounder and Topas PS40 Sub Bottom Profiler. Kongsberg Maritime also installed Dynamic Positioning systems kPOS and cJoy as well as the latest HiPAP Acoustic Positioning technology as part of the fit-out. The company also provided Fugro Survey with training on the operation of the technology to ensure maximum productivity from the systems.

Angus Ogilvie, Project Manager for the Fugro Galaxy at Fugro Survey Ltd comments: "After working with Kongsberg Maritime on the Fugro Searcher new-build project, we were confident of another successful collaboration on the Fugro Galaxy build. By selecting Kongsberg technology we ensured that we had the latest, most developed equipment, making the Fugro Galaxy one of the most advanced vessels of its type in the world. In particular, the high-resolution multibeam will provide the company with highly accurate and reliable data for safe, efficient and cost-effective global survey operations."

Teamwork Results in Award for IHC Engineering Business

Leading Engineering company IHC Engineering Business (IHC EB) has been named Design Team of the Year 2011 by the British Engineering Excellence Awards (BEEA).

IHC EB were awarded the accolade for the work done to design and fabricate the innovative J-Lay Tower for Saipem's FDS2.

The Excellence Award judges were highly impressed by the level of teamwork and the procedures adopted by IHC EB (part of IHC Merwede) to deliver a genuinely ground breaking J-Lay Tower now in operation off the West Coast of Africa.

It is one of the most versatile pipelay systems in the world, capable of allowing the installation of large diameter subsea pipelines in water depths of up to 3,000m.

"There is no doubt about it, teamwork was critical to the successful delivery of the J-Lay Tower. The whole team is delighted



J Lay At Anchor



BEEA Design Team of the Year Receiving Award

to have won this prestigious award," said Neil Baxter, Managing Director.

"Communication was the key to the successful teamwork, given the 'from scratch' start point and the size of the engineering challenge," said Barry Malone, Project Manager. "The senior technical team members, including Martin Bingham (Chief Engineer), Tim Grinstead (Technical Consultant) had significant roles to play in ensuring that all elements came together to deliver a working system.

The design and build of the J-Lay Tower was a complicated project presenting several key engineering challenges. Overcoming these required multi disciplinary team work of the highest order with input from in-house specialists in mechanical, structural, electrical, control and

hydraulic design. The project was the largest system IHC EB has built so far with all equipment having to be developed against a fixed client deadline.

IHC EB won the contract in the third quarter of 2007 and worked closely with Saipem throughout every stage of development, installation and commissioning. The J-Lay tower was built on Teesside, taking full advantage of the region's supply chain. It left Teesside in mid-May 2010 to be installed on the FDS2 in Samsung Heavy Industries' Geojje shipyard in South Korea.

IHC EB is currently in the process of delivering two further pipelay systems to international clients and is optimistic of securing further orders in the near future.

Prospect Sponsors Befriend a Child Dinner 2011

Prospect, a Superior Energy Services company, recently sponsored the first Befriend A Child "Big Kid's Sportsman's Dinner". Prospect are proud to have been involved in this fantastic event as all proceeds go back to the Befriend A Child charity for helping disadvantaged children.

This was Befriend A Child's first Sportsman's Dinner, the attendance was good with 140 tickets sold with a number of local businesses from the trades, financial sectors and shipping industries in attendance. The auction was especially successful on the evening, taking in just under £6,500, including the top bid of £1,200 for a round of golf with dinner B&B at Meldrum House Hotel for four people. There was also a table top raffle and a game of true or false which helped to generate over £2,000.

If you would like to support this charity, please visit www.befriendachild.org.uk

befriend a child 
turn a frown upside down

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