

# Pelican



## CO<sub>2</sub> sea sampling

Raleigh Fisher conducts seawater tests enroute to the Falkland Islands: **Page 2**

## Wind farm support

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## Safety in the deep

JFD re-opens Fort William centre for expert saturation diver training: **Page 4**

## Motorway testing

JFTS completes testing campaign on Ireland's M7 expansion: **Page 6**

### STOP PRESS

#### Optimising performance at East Anglia ONE

James Fisher Marine Services (JFMS) has expanded its close working relationship with ScottishPower Renewables to be awarded a multi-million-pound scheduled maintenance contract at East Anglia ONE offshore wind farm.

The new contract (called 'Above Water Balance of Plant') covers scheduled and corrective maintenance to the wind farm including statutory inspections, equipment maintenance and structural integrity checks for components.

More information in the spring issue.

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JAN KOPRIVA

#### Loads of responsibility at Kincardine

The Strainstall team is supporting a pioneering floating offshore wind farm project with real-time load monitoring for each turbine. **FULL STORY PAGE 5**

## Ship shape at Kismayo Port

Salvage success means full steam ahead for Somali port



A section of the 73m landing craft wreck salvaged from the seabed at Kismayo Port

**Subtech** Marine has successfully completed a complex and delicate salvage operation in Somalia's strategically important port of Kismayo.

In April 2019, the team won a contract to remove a 73m naval landing craft which sank there in 1991 and had been blocking access and limiting the number of ships which could enter the port.

As the main port in southern Somalia, Kismayo has been the site of numerous battles during the Somali Civil War. It is a strategically important route for getting cargo and aid supplies into the interior of the country because intermittent ambushes mean roads in the region are not

considered safe.

'We have earned a reputation for producing great results in challenging, remote environments like this,' says Subtech Marine operations manager, William Moore. 'Our motto is "innovation through experience" and we have certainly used a combination of both to successfully complete this job in Somalia.'

The Subtech dive team arrived (by sea) from Mombasa to start conducting site surveys at the end of July and discovered the wreckage of a second 38m missile boat at the site. Limited visibility in the area meant no one had previously been aware

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# Sampling the water of the Atlantic sinks

**Raleigh Fisher**, James Fisher's recently acquired oil tanker, is conducting important environmental tests for the National Oceanography Centre (NOC) as she sails across the world as part of her present charter.

The crew of *Raleigh Fisher* have been trained in the mechanisms of a sophisticated water-sampling system so they can take daily samples of seawater as the vessel sails to and from the Falkland Islands delivering jet and diesel fuel.

These tests measure changes in the ocean uptake of carbon dioxide to provide an on-going assessment of the potential impact of global warming.

Mark Armistead, fleet manager at James Fisher Shipping Services, explains: 'Engineers from the NOC were interested in the fact that we have vessels taking regular journeys across unusual routes and over remote oceans which are rarely studied. We are happy to help contribute to this important environmental research.'

The collaboration began in July 2019 and sensors have been fitted in the *Raleigh Fisher*'s engine room and on the bridge, and key members of crew trained in maintaining the system and taking daily samples. Sensors deliver real-time information back to the NOC and the filled sample bottles are handed over to the NOC at the end of each journey.

*Raleigh Fisher* is part of a fleet of commercial ships working with the NOC's 'Ships of Opportunity Partnership' to help provide large scale, long-term, scientific data from sustained ocean observing and modelling, mapping and surveying.

Dr Sue Hartman from the NOC says: 'Because commercial vessels continue to work whatever the weather, relationships like these allow us to get year-round data in

**Raleigh Fisher conducts environmental tests for The National Oceanography Centre while regularly transporting fuel to the Falkland Islands.**



undersampled regions. We are grateful to the samplers onboard and to all who look after our instrumentation.'

The oceans capture around 30 percent of human carbon dioxide emissions and hide it in deep 'sinks'. This natural process is known to slow the march of global warming. But as the world's oceans warm, their massive stores of dissolved carbon dioxide appear to be bubbling back out into the atmosphere and amplifying the greenhouse effect. Also of concern is the fact that increasing levels of CO<sub>2</sub> in the water are causing changes to the water's acidity and alkalinity, which could be affecting marine life.

The tests conducted onboard the *Raleigh Fisher* allow the NOC to compare the processes that control ocean carbon dioxide uptake and make a continual assessment of the factors that impact global warming.

Some of the sensors onboard measure salinity which helps to assess the alkalinity of the ocean (alkalinity affects its capacity to uptake carbon dioxide). Other surface seawater samples are collected and preserved so they can be measured for carbon and the samples are also assessed for quantities of the nutrients on which phytoplankton (which plays a sensitive role at the base of the food chain) feed.

Dr Hartman adds: 'By combining data from the onboard sensors with meteorological data collected on the ship's bridge we can get closer to estimating the flux of carbon dioxide into the ocean.'

'These tests are especially useful when performed on the long repeat transects of the ocean typically made by commercial vessels. This makes vessels like the *Raleigh Fisher* vital platforms for our measurements.'

## Supporting projects in the Asia-Pacific region

**James Fisher Subsea Excavation (JFSE)** is supporting the fast-expanding oil and gas and renewables sectors in the Asia Pacific region with a run of successful projects.

'The Asia Pacific market is enjoying a strong period with the extension of oil and gas sites and the growth of the renewables industry,' says Richard Beattie, regional director at JFSE. 'Relationships are key and many of our new projects have come on the back of successful work in the

region for many years.'

A specialised fleet of non-contact excavation tools permanently based in multiple strategic locations means the team is well placed to respond to the needs of new and existing clients in the region.

'Having a great spread of equipment particularly suited to the renewables market means we have everything we need right on our doorstep,' Richard adds.

For instance, in Taiwan the team has

been working on the de-burial and trenching of cables for the Formosa 1 wind farm near Miaoli, which will be Taiwan's first commercial-scale offshore wind project. In Indonesia the team returned to a remote site in Papua New Guinea (where some of the same personnel had worked in 2008) to provide operational support to a project seeking to increase the total capacity at a gas liquefaction plant and in Malaysia, work is underway with new oil and gas clients.

# Fender protection for WindFloat

Safe transportation of land-built floating turbines to a deep water site off the Portuguese coast

As demand for renewable energy increases, innovation has shifted to the development of semi-submersible floating wind farms to unlock deep-water sites, and Fendercare Marine has been closely involved with providing fenders to ensure problem-free construction and transportation.

The team has been closely involved with the construction of WindFloat Atlantic, which is incorporating innovative technology in the design and build of a new kind of floating wind farm in deep waters 20km off the coast of Portugal.

When the wind farm is complete, three giant turbines will sit on a floating foundation (similar to those used by the oil and gas industry) which is semi-submersible and anchored to the seabed. Key to the innovation is the fact that the

facility is built and installed entirely onshore, before being transported to the site. This makes the project both accessible and more affordable: turbines are assembled by standard onshore cranes on dry land (at the port) and transported to the site by tugboats rather than expensive offshore installation vessels.

At an early stage in the development, the Windfloat Atlantic team turned to Fendercare Marine for expert advice about protecting the huge turbines as they are built, and it has now deployed five 4.5m x 9m Yokohama fenders hired through Fendercare Marine to protect the giant turbines during construction at the installation harbour in Ferrol, Spain.

Sonia Crane, sales manager at Fendercare Marine, says: 'This is a really interesting project for the team, it is a very exciting milestone for the renewables industry that will open up

further opportunities for offshore wind sites, and we are delighted to be involved.'

In July 2019, the first Windfloat Atlantic turbine became the largest turbine ever installed on a floating platform. For this process and for all offshore operations, the Yokohama fenders played an important support role.

The floating structure has now been transported to the coast of Viana do Castelo, Portugal. There it will sit in waters up to 100m deep where abundant wind resources can be harnessed, collectively delivering enough energy for 60,000 homes each year.

This exciting new floating wind farm technology allows for the installation of wind turbines in locations farther from the coast at greater depths where there might be stronger and steadier winds.

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## Ship shape at Somalia's Kismayo Port

of its presence.

The dive team was subsequently joined in Kismayo by an Alpha Marine barge, tug and crew, equipped with a crane which was able to drop an 11 tonne chisel to cut the two wrecks into 4m sections which were lifted to the quayside to be cut up and taken away.

This was a logistically complex mission for Subtech Marine, as William explains: 'Somalia is a challenging country to work in due to the high threat of terrorism and crime. The remote location meant this project had to be completely self-sufficient and this required detailed logistical planning – there was no chance of popping to the local shops for extra supplies!'

'We had good on-board security and the port area is heavily defended by the Kenyan military. Before we started, I visited the area for a site inspection and decided any risks could be mitigated by being self-sufficient and not leaving the port environs,' William explains.

'The team did a great job in difficult conditions,' he adds, 'We had to keep a really close eye on safety as the divers were working around sharp, tangled metal, and having to negotiate non-standard lifting operations performed by the crane.'

The operation was further complicated by the presence of large quantities of live cannon shells on the wreck which required careful handling and disposal once ashore,

plus a large resident population of lionfish, sea urchins and moray eels. 'Lionfish are very poisonous, and both urchins and morays can be dangerous if you can't see them,' says William, 'Luckily no one was stung or bitten although quite a few divers did get spiked by urchins.'

'We used standard safety practice on the job, rigidly adhering to risk identification and analysis on even the most simple of tasks - making sure every member of the crew examined each task before commencement to ensure it could be completed safely,' he adds.

The mission was a complete success, with both the landing craft and the missile boat successfully removed in good time. This clearance work has effectively increased the port's capacity to handle ship traffic by a third, which is good news for the area and also for the crews of ships which no longer have to risk being attacked by pirates if they anchor offshore. Subtech is pleased to be able to support the opening of this port to enable cargo and aid supplies to reach Somalian people in need.

**Salvage crews faced challenges from several sunken vessels, live ordnance, poisonous lionfish and spikey urchins while recovering wrecks from Kismayo Port**





# SAT-isation guaranteed

World-class closed bell saturation diving training course established at Fort William

JFD is set to establish a leading global closed bell diver training programme in the UK, which will ensure high-level safety qualifications for saturation (sat) divers around the world.

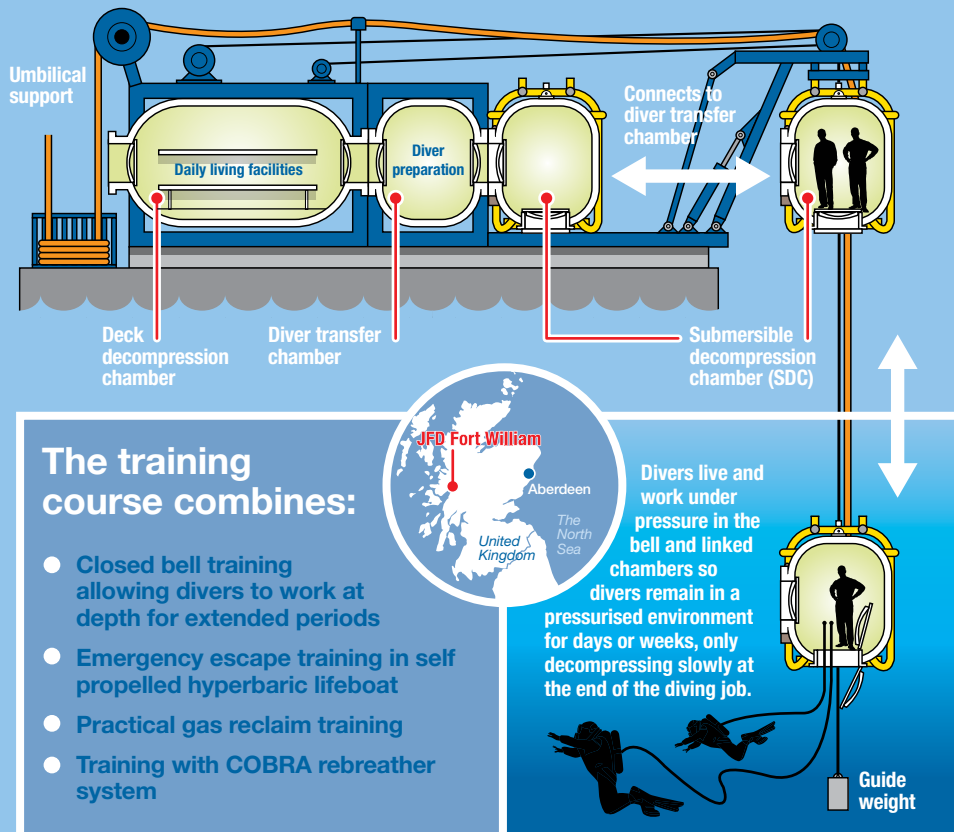
The centre, at Fort William in Scotland, will provide divers with the opportunity to combine sat diver training with several features that weren't previously available on closed bell diver training courses.

The closed bell mixed gas saturation qualification is the highest level of HSE diver certification a diver can reach. It qualifies divers to work for long periods of time at depth, using all the techniques and safety measures available to prevent decompression sickness.

In addition to this, divers will receive emergency escape training using a self-propelled hyperbaric lifeboat (SPHL); practical gas reclaim training (where JFD's industry-standard equipment is used to reclaim the heliox gas mix breathed by divers); and training on JFD's new commercial diver rebreather system, COBRA.

This introduces them to some of the critical safety systems they can expect to see when they commence their sat diving career.

The new venture has been made possible by JFD's recent acquisition of the closed bell sat diving system and associated assets of The Underwater Centre, which was one of only two in the world to offer closed-bell training to divers. When the centre closed in 2018, there was no longer provision in the UK for saturation diver closed bell training, which presented concerns for the industry. However, JFD's comprehensive training package which will be up and running in early 2020, heralds a whole new approach towards the safe, reliable and sustainable provision of crucial training for the worldwide subsea industry.



## The training course combines:

- Closed bell training allowing divers to work at depth for extended periods
- Emergency escape training in self propelled hyperbaric lifeboat
- Practical gas reclaim training
- Training with COBRA rebreather system

Steve Ham, JFD's new head of commercial service sales (and formerly commercial director of The Underwater Centre) says: 'The future of the global offshore and subsea markets is in part dependent on the ability of saturation divers to conduct complex and demanding inspection, repair and maintenance operations in what can be extremely challenging environments. We are going to need commercial divers for many decades to come. It is clear when you consider the increasing stability and return to growth of the industry plus the considerations of an ageing workforce, that there is a strong need for a training capability which fulfils the need for new well-trained saturation divers to enter the profession.'

'This new sat course will ensure that the highest standards in safety are always maintained while introducing divers to modern safety practices such as the use of SPHLs and gas reclaim systems,' he adds.

JFD's strength and experience in subsea engineering and training services, coupled with the involvement of key personnel previously involved with delivering the course, means students from around the world will be introduced to safety equipment not previously available in any sat course. It will give new sat divers a superb start to the next phase of their diving career and JFD's ongoing support will ensure safe development of their career in the diving industry.

## Gemma, a first among equals

23-year-old Gemma Elliott has graduated with a first class degree in industrial engineering which she attained as part of her apprenticeship with JFN.

As an inspiration to women considering engineering, she was chosen by Shrewsbury College to feature on a campaign promoting her course.

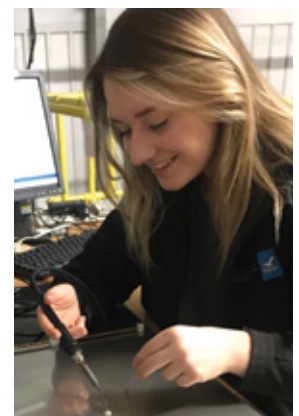
Gemma joined JFN four years ago as a trainee technician. 'The fact that there are so few women working in the industry was a big driver for me to work hard and excel in my studies and on-site work,' she says.

Now, Gemma travels between nuclear licensed sites (EDF and Magnox) calibrating radiometric equipment in

radiologically controlled areas. 'I get to visit multiple sites on a regular basis so I'm constantly meeting new and interesting people, training on new instruments and getting involved with new technologies/system upgrades,' she says.

'My job is incredibly varied. On any given day I might be called on to calibrate or repair radiometric equipment at one of our customer nuclear licensed sites. We use radioactive sources to determine detector efficiencies and if there's a break-down I may need to interrogate the circuit boards on the equipment to diagnose the fault.'

This kind of work keeps you on your toes – which suits me perfectly,' she adds.



# Monitoring system measures up to the task on floating wind farm

Real-time turbine load monitoring establishes new levels of wind farm safety off the Scottish coast

The Strainstall team is supporting an innovative floating offshore wind farm project, Kincardine Offshore Windfarm Limited (KOWL) off the coast of Aberdeen in Scotland.

As part of the project, Strainstall is supplying specially designed platform mooring connectors (PMC) which offer real-time load monitoring for each turbine.

The system measures displacement, inclination, lateral erosion, oceanographic changes and component deterioration and sends alarm-linked information to operators, alerting them to potential overload situations and the possibility that structural stability may have been compromised.

Strainstall's PMC system has already proved effective in delivering accurate load measurement for major renewables projects worldwide, saving time and resources, and negating the need for regular diver and remotely operated vehicle (ROV) inspections, as well as lowering the

potential for offshore accidents.

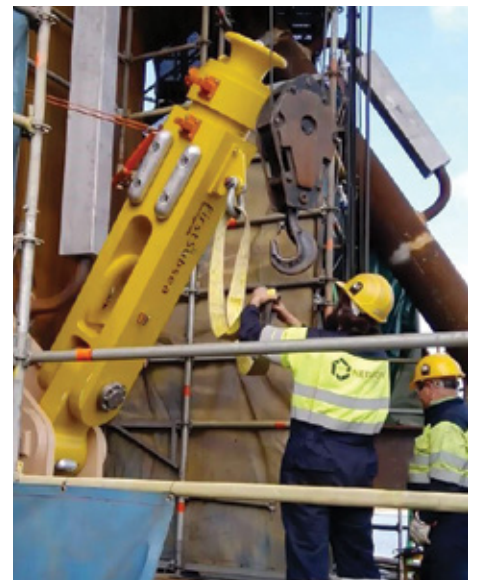
The team is working in collaboration with First Subsea which custom-builds the strain rings integrated into the PMC system.

## Smile and wave

In a separate exciting renewables initiative, Strainstall's subsea load shackles have been installed and successfully tested on the NEMOS wave energy converter prototype which is being built off the coast of Ostend, Belgium.

The process went smoothly when the self-floating system was towed by a tugboat and coupled to its anchor lines. 'It was exciting to see the floater starting to operate through the energy of the waves,' said Oliver Epsom, lead offshore engineer at NEMOS. 'It was a proud moment for the entire team.'

On this innovative system, incoming wave energy is absorbed by an elongated floating



body that sits on the surface, transmitting force to a generator via a spring-loaded belt, so creating electricity.

The load shackles are designed to measure tension and collect data which will play a key role in ensuring the prototype's structural integrity. They have been specifically manufactured to withstand the challenging conditions of offshore environments.

'Having developed load monitoring components for major offshore projects, Strainstall is continuing to deliver solutions that improve asset safety and performance for the emerging offshore renewable energy sector,' says business development manager, Michael Hook.

# Powering ahead with new switchgear at Winfrith

Key members of the Magnox senior leadership team and the Nuclear Decommissioning Authority (NDA) recently visited James Fisher Nuclear (JFN) for a demonstration of reactor segmentation equipment being developed for a nuclear decommissioning project.

JFN is working with Magnox and the NDA on the decommissioning of the steam-generating heavy water reactor (SGHWR) at Winfrith in Dorset.

Senior representatives from both parties visited JFN's facility in Malton, North Yorkshire, where they had the opportunity to drive robots that will be used during the decommissioning process. The visit was topped off with an impressive diamond wire saw demonstration.

The event coincided with the delivery of a package of new electrical switchgear which is key to early work on the SGHWR core

segmentation project.

Stuart Yellowlees, managing director of JFN, says: 'We had a highly successful day which featured an excellent presentation of the work we are developing for this project.'

The new electrical switchgear has completed factory acceptance testing and is now ready for installation. It will enhance existing SGHWR electrical infrastructure and provide power to remote handling equipment, heating ventilation and air conditioning systems (HVAC), grout and concrete plants as well as other supporting plant equipment.

John Allan, electrical, control and instrumentation design manager at JFN, says: 'This is a key part of the SGHWR project enabling works which replaces existing ageing equipment within the SGHWR facility. Its availability will ensure reliable power supplies throughout the decommissioning process up until final



remediation of the facility.'

This new switchgear will provide power to both temporary electric equipment used during the construction phases and the permanent supplies for the project. This alternative approach to delivery is faster than a traditional project build process, which would typically have two independent systems.

Installation of this equipment in the SGHWR buildings will commence in early 2020.



# Testing success on Ireland's M7 motorway

## Civil, structural and materials testing on the newly-completed M7 bypass update



**13.6km M7 bypass update**

**NAAS**

### Compliance test:

Quarried material supplied to project (such as crushed rock, sand and gravel) are sent for testing at JFTS laboratories to ensure consistency and compliance to standards.

### Concrete testing:

Cube samples of concrete are tested on site to determine workability and to check strength meets design specifications during construction.

### Pull testing:

Hilti load tester kit is used to check surface maturity as the concrete cures.

James Fisher Testing Services (JFTS) has just completed work on the major new M7 bypass upgrade in Ireland and is continuing to provide testing services for a single carriageway bypass section of the project on a daily basis as it nears completion.

The upgrade involved widening a 13.6km stretch of the motorway from two to three lanes to ease congestion for Dublin commuter traffic on one of the busiest roads in Ireland. More than 70,000 vehicles use this route every day to drive between Dublin and other major cities such as Cork, Limerick, Waterford, and Kilkenny.

The scheme includes the building of six new structures, including two bridges over the River Liffey, a bridge over the Grand Canal, a new interchange bridge over the M7 and a minor road bridge.

Over the last 18 months, the JFTS team has been employed by the Siac/Colas joint venture responsible for the works on an ad hoc basis. In-situ civil and structural testing has

### Compaction tests:

A nuclear density gauge kit is used to determine compaction percentage and moisture content of quarry material in-situ to ensure each layer meets requirements before the next layer is applied.

### Bearing capacity testing:

The JFTS Plateman kit (which is transferred to the site) determines load-bearing characteristics of in-situ ground conditions to ensure earthworks are placed and compacted to meet specified load-bearing capacity.

been carried out by JFTS technicians and the team has also been able to provide materials testing services back at the JFTS laboratories in Portlaoise and Warrington.

Tim Ryan, technical sales executive at JFTS Ireland explains that the work was won on the back of 'persistent and consistent engagement' with the customer, Siac/Colas, early in the project. 'We had meetings to identify how JFTS could meet potential testing requirements and customer's needs which meant we were well positioned to address those needs when the opportunities arose,' he says.

'In the end, we were chosen as a second testing company on site as the scope and the quantities of material testing was too

large for a single company and we were able to demonstrate we have the capability, the resources and the accreditation scope to handle the project's significant testing requirements.

'It was important to be able to offer a quick turnaround on test results to reduce delays, and key to this was the JFTS designed Plateman (load testing) system which provided test reports rapidly, allowing earthworks to proceed as scheduled.'

He adds: 'The team showed a consistently positive response to resolving problems as they occurred and in the end we were able to provide a better service in terms of mobilisation and testing at short notice.'

## New contracts signal expansion in Brazil

Following the acquisition earlier this year of a 60% share in Brazilian subsea engineering and diving company, Servicos Maritimos Continental (as reported in the autumn issue of Pelican) the James Fisher group has won two significant contracts for oil and gas majors in the region.

The team has already started work on a 60-day contract with a leading independent oil and gas company, Perenco, and oil and gas services company, Sapura Energy. It has also signed a new two-year contract with MODEC – a global supplier and operator of offshore floating platforms, to work on all 14 of its floating production storage and offloading vessels (FPSOs) stationed in Brazil.

As an established air diving service provider to the offshore oil sector in Brazil, SM Continental provides inspection, repair and maintenance services to offshore oil terminals, primarily FPSOs.

The team has joined dedicated Brazil-based teams from Fendercare Marine and ScanTech Offshore.

Richard Wilson, the regional director for James Fisher in Latin America says: 'We now have a total of 235 James Fisher employees in Brazil, we have grown rapidly, we have a great team, and the future for 2020 and beyond is looking bright.'

'Over the last few months we have been very busy integrating SM Continental into the group. We are delighted to service



customers such as Perenco, MODEC and Total, and to have extended our existing contract with Petrobras.

'We have also added a new specialist area to our subsea offering in the form of a rope access business which uses techniques used in climbing and caving to allow workers to access difficult-to-reach locations without the use of scaffolding or cradles.'

In this issue we meet Heather Leadbetter who works closely with ScottishPower Renewables delivering a high standard of offshore support services to its East Anglia ONE offshore wind farm

#### **Tell us a bit about yourself**

I consider myself to be 'properly' Scottish because I was born and raised on the West Coast of Scotland and studied at the University of Stirling. I also played the bagpipes as part of my school band, which performed at local concerts and festivals.

My degree was in human resources and I assumed that would be an area I'd move into, but on graduating I fell into an operations role with a company called Dawson Energy because they were based close to home and a job as finance assistant came up. However, within six months they'd closed the Oban office and I was re-located to Norfolk as an operations co-ordinator. There, my job involved managing multi-skilled offshore wind turbine technicians across installation, commissioning and servicing projects throughout Europe. I loved the role – it was fast-paced and every day was different.

Moving so far away from home was scary but I've made friends for life and I bought my first house last December so I'll not be returning to Scotland any time soon!

#### **How did you come to join the James Fisher group?**

After nearly five years with Dawson Energy I'd worked my way up to a team leader role, but I jumped ship to join James Fisher Marine Services (JFMS) in July 2018 when I saw an opening for operations and maintenance project co-ordinator. I was ready for a new challenge and I liked the idea of starting from scratch in a new department and assisting with the setup of new systems and processes. I already knew a few of the team so I was able to settle in to the role well. My job involved co-ordinating the technologies between projects, and managing the various forms of certification required. Then, within a few months of arriving, I was asked to take on the management of the Integrated Marine Package (IMP) on East Anglia ONE (EA1) for ScottishPower Renewables (SPR).

## **Under the surface with: Heather Leadbetter**



#### **Tell us about your job?**

I'd never worked on marine communications, coordination, and the supply of vessels before so I had a lot to learn. It's definitely a more challenging role but I enjoy it. Now I spend two days a week on site near Ipswich in Suffolk as an embedded extension of the EA1 team, helping to ensure we're successfully delivering and meeting our contractual requirements. For the other three days I'm based at JFMS's office in Lowestoft, Norfolk. Our compliance manager Hannah has recently joined the team, so it's great to have a bit more girl power here!

#### **What do you enjoy most about your job?**

I enjoy having the responsibility for looking after a key part of this huge project. It's such a great feeling when a customer offers positive feedback on our performance and I'm very proud to have received consistently good feedback from SPR for performance and my relationship with EA1. We have built a good working relationship, which

has resulted in JFMS being asked to deliver extra services on top of work contractually agreed. I'd like to think this is partly down to the good service the customer receives from us and it is a great example of how we can add value to our customers in many key areas of any offshore wind farm project.

#### **What does the future hold?**

I'm currently working through my APM Project Management Fundamentals course so I'd like to pass this and continue to build my project management experience through the IMP project. I've also just completed my global wind organisation training so I'm looking forward to being able to go offshore for the first time, and I'd like to stay on EA1 so hopefully there will be an opportunity to continue on site after the IMP finishes next summer.

My 2020 New Year's resolution is to start learning the piano or the guitar. I miss having a musical hobby and either of those would be more popular with my friends and neighbours than bagpipes!





William Dowsett in action (left) and being congratulated by Anton Van Zyl, director of diving for Subtech South Africa (right)

## Looking to make a splash at the water polo world championships

A young diver on the Subtech team in South Africa has been selected to play water polo for the country's U20 team at the sport's world championships in Kuwait in December.

William Dowsett, who has been working on one of Subtech's pipeline maintenance contracts in Richards Bay, has been playing water polo at a high level since childhood, winning gold medals in the U15 and U19 age groups. He loves the team aspect of the sport and the tactical elements, noting it is 'fast, physical and exciting, and there's nowhere to hide when you're in the pool.'

He says: 'I hope to not only make my country proud but also hope to make all the people at Subtech proud – we'll be flying both flags high with pride!'

South Africa finished 15th at the last world championships William attended, and he's hoping for a higher ranking this time around, noting: 'It would be wonderful to top 15th this year, as it would be the best a South African junior team has ever done.'

His boss, Anton Van Zyl, director of diving for Subtech South Africa, adds: 'William has worked really hard for this competition and we wish him every success.'

## In STEM we trust

Four lucky sixth form students spent their summer on an internship with James Fisher Marine Services (JFMS) as part of an internship programme co-funded by The Ogden Trust.

The Coastal Energy Internship provides year 12 and 13 students with a four-week summer placement that utilises and enhances their STEM skills in a business environment. This year, local students, Maisie Dixon and Owen Jones got the chance to support projects with Rotos360 in Grimsby and Greg Hurren and Kieran Boakes worked with the topside operations and maintenance department in Lowestoft.

Greg Hurren who is one of the top science students at Lowestoft Sixth Form College was really pleased with the amount of responsibility and challenge he was given. He says: 'Many facets of the work I got to do were incredibly beneficial and my confidence and general understanding of working life has improved dramatically – I also found the wind farms very intriguing.'



## Supporting team spirit

Playing in all-new full team kit supplied by ScanTech Offshore has made all the difference to the Ubangha Egu Junior (U15) Football team in Port Harcourt, Nigeria.



## Top of the class for Alison

After more than 14 years with the James Fisher group, Alison Rumbold is moving on to fresh pastures and relocating to the South of England to become a primary school teacher.

Alison says: 'Thank you everyone for your support and kindness over the last 14 years, it has been a pleasure working at James Fisher.'

In her time at James Fisher, Alison worked as personal assistant to former chief executive, Nick Henry as well as Stuart Kilpatrick and a succession of chairmen over the years (including Tim Harris, Charles Rice and Malcolm Paul). She knew everyone in the company, and kept things running smoothly.

## Best wishes for Christmas and the New Year

As we reach the end of 2019, we would like to take this opportunity to thank everyone for their valued contributions during what has been another great, though sometimes challenging, year for James Fisher. We have acquired new companies, won numerous contracts and enjoyed some prestigious project successes. While we do not take enough time to recognise your collective and individual hard work, I would like to assure you it does not go unnoticed. With the same creative, forward-looking and determined mindset as we have shown this year, we can look forward with considerable optimism to another great year in 2020. On a personal note, I would like to thank each of you who made me feel welcome since I joined James Fisher in September – you helped to make these past four months among the most interesting and rewarding of my career thus far!

**Wishing everyone all the best for Christmas and a Happy New Year!**

*Eoghan*

Eoghan O'Lionaird  
Chief Executive Officer,  
James Fisher and Sons plc