

SKIPPER EXPO INT ABERDEEN 2019 – 17-18 MAY

Over 210 exhibiting companies from 19 different countries will be exhibiting at Skipper Expo Int Aberdeen 2019 on Friday 17 and Saturday 18 May.

This will be the biggest Skipper Expo Int Aberdeen, highlighting the underlying optimism in Scottish fishing today. Sponsored by the Scottish Fishermen's Federation, the event will feature virtually every type of equipment and support service available to the commercial fishing sector.

The expo will be opened by Scottish fisheries secretary Fergus Ewing, who will then tour the exhibition hall, to see for himself the innovation that is the cornerstone of fishing today.

The line-up features 40 first-time exhibitors, ensuring that there will be plenty of new companies to interest visitors, and highlights will

include the ever-popular seafood tasting stand, hosted by Box Pool Solutions, and safety demos from the RNLI.

Exhibitors and invited guests can also look forward to the seafood buffet at the Douglas Hotel on the evening of Friday, 17 May, sponsored by Anderson Marine, Certas Energy, Commercial Oils, E2 Partnership, Peterhead Port Authority and Sunderland Marine.

Sharon Boyle of show organiser Mara Media said: "We are thrilled

that there has been so much interest in Skipper Expo Int Aberdeen 2019. There is a real international flavour this year, including a good representation of shipyards, which is sure to interest Scottish skippers currently investing in new vessels.

"Skipper Expo Int Aberdeen 2019 promises to be a fantastic show, and we look forward to welcoming exhibitors and visitors to Scotland's flagship fisheries event."



Skipper Expo Int Aberdeen 2019 will be held at the Aberdeen Exhibition and Conference Centre on 17 and 18 May. Opening times are 10am-6pm on Friday, 17 May and 10am-4pm on Saturday, 18 May. Entry is free, and to beat the queues, visitors can pre-register by visiting: bit.ly/2vuh2MI and then clicking the link for the visitor registration page. ■

KEEP WARM AND DRY WITH PRONOMAR

Pronomar has been providing drying solutions for workwear to varying industries for many years.

Its drying systems, made from either stainless steel 304 or seawater-resistant steel 316, ensure a fast and thorough drying of clothing by using a powerful warm-air blower.

A large amount of air flows through the continuous stainless steel framework and rounded hangers. The hangers contain nozzles, through which the air enters the clothing, reaching all areas, from the armpits to the tips of the boots. Pronomar now sees increasing interest coming from the fishing industry, and is happy to say it has developed dryers that can even be fitted into the smallest niches onboard compact fishing vessels.

For example, its space-saving COMBO dryer provides drying hangers for jackets or oilskins on top of a drying section for boots or gloves. This configuration is available for between three and eight people. Or there are the special boot and glove dryers, now available starting at two pairs.



▲ Customised Pronomar systems ensure that deck clothing is kept warm and dry, ready for immediate use.

These robust dryers improve work conditions for fishermen, who often face the roughest sea and weather conditions. At the same time, they prolong the lifespan of the workwear.

Alongside other companies, Pronomar works closely with architects and shipyards, and can offer AutoCAD drawings to ensure the most efficient integration of its systems into the available space.

ELECTRIC PELAGIC FISH PUMP FROM MACGREGOR (GBR) LTD

MacGregor (GBR) Ltd (formerly Rapp Marine) will be exhibiting and demonstrating the world's first submersible electric fish pump for pelagic fishing vessels.

Based on over 10 years' experience in developing electric deck machinery for the fisheries and fisheries research fleets worldwide, the pump's development was also driven by forward-thinking owners looking to adopt new technologies and techniques.

The benefits of this new technology are multiple, and include:

- Very friendly towards the environment and the species being pumped – zero risk of hydraulic oil contaminating seawater or the fish
- Pumping performance, compared to equivalent 18in hydraulic design, is significantly improved
- Power cable handling characteristics much better than hydraulic hose handling
- Redesigned mechanical components and increased protection means the pump is more robust than earlier hydraulic designs, and is kinder to the species being pumped
- Typical energy efficiency is around 85%, compared to 50% for the equivalent hydraulic design, resulting in reduced



▲ Deploying the MacGregor electric fish pump, which is reported to be performing exceptionally well...

energy consumption

- With truly stepless, and infinitely variable, speed control of the pump, compared to earlier hydraulic designs – benefits that are only available when using electric designs – pumping rates are easily adjusted
- Turbine is smooth; the unit has none of the losses or mechanical hysteresis associated with hydraulic systems. Torque ripple at the impeller is reduced significantly, resulting in a smoother, less impulsive flow in the complete pumping system
- Very easy, and much quicker, to retrofit than a hydraulic

pump to any existing vessel with adequate generating power – no hydraulic pipework, pumps or tanks required, only cables and control cabinets.

The first vessel to be fitted with this arrangement was the Shetland midwater trawler Research LK 62, and the biggest proof of success is seen at the marketplace. The vessel's owners are delighted to report that since commercial fishing began with their new command, there have been zero complaints from buyers regarding catch quality.

Perhaps the best technological advance to date in pelagic fisheries, the company's electric fish pump has pushed the boundaries to deliver the best technological solution in the marketplace which, in turn, is delivering top financial returns from the buyers in the marketplace.

MacGregor shapes the offshore and marine industries by offering world-leading engineering solutions and services, with a strong portfolio of MacGregor, Hatlapa, Porsgrunn, Pusnes, Rapp Marine and Triplex brands.



▲ ... on the 80m Shetland pelagic vessel Research.

EXHIBITORS

- | | |
|---------------------------------|------------------------------------|
| ● ASAP Supplies Ltd | ● Davidsons Ltd |
| ● AS SCAN | ● Denholm Fish Selling |
| ● Aberdeenshire Council | ● Doosan (Watermota) |
| ● Aderco Fuel Treatment | ● DRAWM |
| ● Anderson Marine | ● Du Pré Marine Ltd |
| ● Anderson Marine – Vessel | ● Duo Tool Direct Ltd |
| ● Arklow Marine Services | ● Duusgaard Coating |
| ● Armon Shipyards | ● Dychem |
| ● ARS Anglian Diesels Ltd | ● E-Catch |
| ● Astander Shipyard | ● Echomaster Marine |
| ● Aucxis | ● EK Marine Ltd |
| ● Baatbygg As | ● EKKO Trawl Doors |
| ● Balenciaga Shipyard | ● EMYG Aqua |
| ● Barrus Ltd | ● Engine Solutions |
| ● Beta Marine | ● Engines Plus Ltd |
| ● Blue Anchor Fire & Safety Ltd | ● Errigal Bay |
| ● Bopp | ● Euronete (UK) Ltd |
| ● Box Pool Solutions Ltd | ● Eyemouth Marine |
| ● Bredgaard Boats Aps | ● Faithlie Trawl |
| ● Brunvoll As | ● Ferguson Marine Engineering Ltd |
| ● CA Clase UK Ltd | ● Fettes & Rankine Engineering Ltd |
| ● Caithness Creels | ● FF Skagen |
| ● CC Jensen Ltd | ● Fibras Industriales SA |
| ● Certas Energy/Commercial Oils | ● Finer Filters |
| ● Charity & Taylor | ● Finnie 4x4 |
| ● Charles Cleghorn Ltd | ● Finning (UK) Ltd |
| ● Costco Wholesale | ● Finnøy Gear & Propeller As |
| ● Cotesi | ● Fishevegn As |
| ● Craemer UK Ltd | ● Fishing Heritage Centre |
| ● Crown Marine Seats Ltd | ● Fishing News |
| ● Damen Shipyards | ● Fiskerforum |

SEAKEEPER 5HD GYRO STABILISERS

Last year, Aberdeen exhibitor Seakeeper announced the introduction of the newest addition to the HD product line, the Seakeeper 5HD gyro stabiliser.

Designed specifically for commercial vessels of 10-13m, or up to approximately 15t, the Seakeeper 5HD is designed to eliminate up to 95% of all boat roll.

Like other Seakeeper units, the new 5HD is completely internal, requires only modest electrical power, and can be installed virtually anywhere onboard.

Seakeeper's HD line is intended for rigorous offshore use – more than 1,000 hours per year. Not only does the Seakeeper increase crew comfort on the vessel, it increases safety and lessens crew fatigue. All models in the HD line come with a four-year/4,000-hour warranty on major components, and a two-year/2,000-hour warranty on all other components.

Skipper John Affleck, a shellfish fisherman from



▲ The Burnmouth fast potters JAS-N and Soph-Ash-Jay 3 are equipped with Seakeeper gyro stabilisers.

Burnmouth in southeast Scotland, recently joined the Seakeeper team as an ambassador.

John and Nicola Affleck own two Trefjar Cleopatra Fishermen 40s – Soph-Ash-Jay 3 LH 60, which is equipped with a Seakeeper 6, and JAS-N LH 50, which has a Seakeeper 5. No other potting vessel in the area has been stabilised with a

Seakeeper, which he credits with making him and his crew safer, and making the job a little easier.

John Affleck won the Fishing News Award for Shellfish Fisherman of the Year in 2016, and was a finalist in 2018 for Technical Innovation of the Year for his Seakeeper, and Soph-Ash-Jay 3 is nominated this year for New Shellfish Boat of the Year.

EXHIBITORS

continued

- Fraserburgh Harbour Commissioners
- Furuno (UK) Ltd
- G Smyth Boats
- Gael Force Group
- Global Empire Hydraulic Connections
- Gondan Shipbuilders
- Grampian Powerclean
- Guy Cotten UK Ltd
- GW Containers
- Havfront As
- Hercules Hydraulics
- Hirtshals Havn (Port of Hirtshals)
- Hirtshals Service Group
- Hook & Net
- Hook Marine
- Icom UK Ltd
- Injector Door
- Inka Pallets
- Isovent As
- Jackson Trawls
- JC Hydraulics
- Jens Berg Shipping
- Karmøy Winch
- Karstensens Skibsværft
- KER Group
- Kingfisher Information
- Kort Propulsion
- KT Nets
- Kynde & Toft
- Lerwick Port Authority
- Lorrimar
- Macduff Diesels
- Macduff Shellfish (Scotland) Ltd
- Macduff Shipyards Ltd
- MacGregor (GBR)
- Mackinnons
- MAIB
- Maloy Havneservice As
- Måloy Maritime Group
- Måloy Radioforretning As
- Måloy Seafood As
- Mantsbrite Marine Electronics
- Marine & Industrial Transmissions Ltd
- Marine Control Services A/S
- Marine Design International
- Marine Stewardship Council
- Marine Supplies (International) Ltd
- Maritime & Coastguard Agency
- Marport
- Marship
- Maver Boats
- McMinn Marine
- Medley Pots
- Mermaid Marine
- MEST Shipyards
- Michigan Marine Propulsion
- Mitchell Power Systems
- MMG Welding
- Mooney Boats
- Morgère
- Mullion Survival Technology
- Murphy Marine Services
- Naval Consult As
- Nordjford Havn Iks
- Nordsøtrawl A/S
- Norsap UK
- North Atlantic Fisheries College (NAFC)
- Notus
- Parkol Marine Engineering
- PBP Services
- Pelagia As
- Peterhead Port Authority
- Polar Doors
- Port of Skagen
- Ports of Scotland Yearbook

EYEMOUTH MARINE LTD – SERVING SEA, WIND AND SHORE



Eyemouth Marine Ltd will be showcasing a wide variety of skills and services that can be provided at its boatyard in the Scottish Borders. Services include welding, fabricating, engineering, joinery, composites, hydraulics, plumbing, spraying and traditional painting. A selection of the skilled workforce will be on hand to discuss and explain further.

Established in August 2017, Eyemouth Marine Ltd is based in Eyemouth on the southeast coast of Scotland. It has over 190 years of history on site, and more than 350 boats have been built there since the very first, The Good Design, in 1827. Its vision is to build on this heritage and bring the boatyard up to the 21st century. It aims to be the go-to yard on the east coast



▲ Eyemouth Marine's premises are in the process of a £2m overhaul.

for commercial vessel repairs, maintenance, RNLI work and, in due course, the leisure vessel sector – all while contributing positively to the communities it works in and serves.

Moving forward, it is in the process of a £2m complete overhaul of facilities, which will allow numerous boats of up to 250t to be worked on in a climate-controlled environment. The new facility will incorporate the three current workshop sheds and expand the available space to also house office, meeting and accommodation areas for staff

and customers. All aspects of boat handling, repair and maintenance will be upgraded.

Investment in systems and equipment will help the yard to become a leader in its field.

Currently, it specialises in the commercial repair and refit of vessels up to 200t. It is RNLI-approved for repairs and refits, and aims to be the first port of call for fishing vessels and leisure craft. It has the experience, capability, necessary trades and facilities to deal with all customer requirements.

SCANIA

SICOR INTERNATIONAL

Sicor International Ltd is one of Europe's major manufacturers of ropes, nets and twines for the marine and fishing industries, as well as industrial applications and agriculture.

It has been established for over 50 years and currently exports to

over 60 countries worldwide. A comprehensive range for numerous applications is available from its Aberdeen warehouse.

The company also stocks a full range of netting, binding and pot rope for the manufacturing of static gear such as crab, lobster and langoustine

creels. There is also a full range of mooring lines: courlene, nylon, staple, polypropylene, polysteel and manila.

Visit the Sicor International stand to view its new products, including its new Platinum range of netting, creel rope, bait bags and nylon eye entrances.

SCOTTISH FISHERMEN'S FEDERATION

Anyone looking in over the past two years might think that the Scottish Fishermen's Federation (SFF), which is sponsoring Skipper Expo Int Aberdeen 2019, was entirely focused on Brexit. Of course, with the prospect of substantial additional catching opportunity outside the CFP, and therefore a much bigger industry trading greater volumes of fish and employing many thousands more people, the future has been at the forefront of our endeavours.

However, there is considerably more to the SFF than lobbying in the corridors of power for favourable policy outcomes.

The SFF is an umbrella organisation for the major associations that represent some 400 vessels, from inshore creel boats to pelagic trawlers, and the interests of the vast majority of Scottish fishermen: the Anglo-Scottish Fishermen's Association, the Fife Fishermen's Association, the Fishing Vessel Agents and Owners Association, the Mallaig and North West Fishermen's Association, the Orkney Fisheries Association, the Scottish Pelagic Fishermen's Association, the Scottish White Fish Producers' Association, and the Shetland Fishermen's Association.

As such, the SFF has a very democratic, bottom-up structure, with the impetus for what we do coming from wheelhouse and deck.

In addition to promoting the interests of our constituent associations, we aim to ensure a viable and sustainable future for the fleet in terms of both economics and environmental responsibility. We also work hard to improve the perception of the fishing industry, making sure its voice is heard everywhere, and correcting erroneous statements made about all aspects of fisheries.

The SFF plays a key role in helping to attract new entrants to the industry, and in ensuring that professional standards of training and safety are met.

New regulations covering the safety and welfare of fishermen, regardless of their employment status, were introduced in 2019.

They provide protection, and place responsibilities on all, from owners to deckhands. The Maritime and Coastguard Agency has used the new regulations to support changes in health and safety, beginning with the requirement for fishermen on deck to wear a personal flotation device or use a lifeline. A boat can, through a documented risk assessment, be absolved of the requirement if the risk of falling overboard has been eliminated.

The new regulations cover many new aspects, such as medicals and the requirement for all fishermen to have working agreements. SFF safety officer Derek Cardno will welcome fishermen with any questions about how to comply with the new requirements to our stand at Skipper Expo.

On the policy front, representation of fisheries interests to the renewables industry has become a major issue over the past 10 years, as fishers' perceptions of loss of grounds has increased. While society needs new energy sources, the production of sustainable fish protein should be protected for the future.

The SFF's science policy branch, overseen by Elena Balestri, guarantees fishing industry involvement in a whole swathe of areas, from MPAs to strategies on birds and cetaceans, and manages industry interaction with Marine Scotland Policy and science institutes (ICES for stock assessments, Marine Scotland Science, and Aberdeen University). The focus is always on sustainability, for profitable fisheries and healthy stocks.

The policy branch established the Science Network, a forum for scientists employed by Scottish fishing industry associations to benefit from knowledge exchange and collaboration on scientific

issues of shared interest, and from representation at meetings regarding the Scottish industry's engagement with science.

The SFF also manages the IOOS (Independent Onboard Observer Scheme), which provides highly trained observers for every science/industry project that requires data collection onboard boats, and has been running for 11 years.

Phase VI of the IOOS commenced on 1 January, 2017, expanding and developing the previous phases, which were all supported by either the European Fisheries Fund (EFF) or the European Maritime and Fisheries Fund (EMFF) and the Scottish government.

Through managed deployment of a pool of six fisheries observers, and a project co-ordinator/data analyst, the project aims to:

- Provide greatly enhanced data for stock assessment as part of the joint Marine Scotland Science/SFF Observer Scheme, as agreed by the Fisheries Management and Conservation group (FMAC)
- Support industry-led initiatives such as the Gear Innovation and Technology Advisory Group (GITAG), with the aim of testing selective methods of fishing that help to address potential problems relating to the landing obligation (for whitefish and Nephrops fisheries)
- Assist Marine Scotland Science in the collection of biological data on the industry/science demersal trawling survey of anglerfish (*Lophius* spp.)
- Provide practical advice and support for science/industry projects that require direct observations at sea on commercial vessels (eg, commissioned under Fisheries Innovation Scotland or Fishing Industry Science Alliance)

- Provide observer coverage and sampling for a scientific monitoring fishery for herring in ICES division VIa, VIIb and VIIc, as advised by ICES

- Support for science/industry Clyde Inshore Demersal Survey

- Maintain the flexibility to provide support to any industry/science-related project requiring a strong data backup.

An additional valuable input is the provision of information on data-deficient stocks to avoid the automatic reductions in total allowable catch for these stocks. Extended coverage from SFF contributes to a more robust dataset that can be used in several ways within the evolving ICES framework for assessing data-deficient stocks.

The Gear Innovation and Technology Advisory Group (GITAG) has now entered its final year, with the project due to end in December 2019. GITAG aims to address research and development gaps by working with key partners, including industry, Marine Scotland Policy, Marine Scotland Science, producer organisations and Seafish, to promote and encourage innovation from the fishing industry as a whole. Funded by the European Maritime and Fisheries Fund and the Scottish government, the project is led and managed by the Scottish Fishermen's Federation's wholly owned subsidiary company SFF Services.

This year has started with four confirmed projects which are well-advanced, and one new proposal which is focusing on cod avoidance in the North Sea. A number of the confirmed projects have concentrated on issues on the west coast of Scotland as a result of the current



▲ Bertie Armstrong, SFF chief executive.

situation regarding quotas and fishing opportunities. These projects are looking at the use of panels, modified separator nets, and skate and ray avoidance measures. In the North Sea, a four-panel codend will be trialled to assess its effect on levels of unwanted catch. The outcomes of these projects will be published once the charters are complete.

The GITAG project is an example of collaborative working between industry, science, policy and gear experts. Detailed information is collected using highly trained observers, which is then processed and analysed, resulting in an assessment of the gear's performance. The completed summaries for each GITAG project are available at: sff.co.uk/gitag/

There is still an opportunity for industry to come forward with any further ideas they have to help them meet the challenges presented by the landing obligation. Further information can be found at the weblink above.

EKKÓ – A REVOLUTION IN TRAWL DOORS

EKKÓ trawl door designers have created environmentally friendly doors in the shape of aircraft wings.

Smári Jósaftsson and the rest of the EKKÓ team wanted to revolutionise trawl doors and reduce the carbon footprint of trawl fishing by creating unique trawl doors that reduce fuel consumption with a unique shape.

The company says that all the vessels using EKKÓ are saving 10% or more in total oil consumption.

As well as this, EKKÓ doors easily glide just over the bottom, both when seabed fishing and when prawn fishing with bottom trawls.

Because of their design, EKKÓ doors are very good at turning, with both doors flying just over the bottom without stalling or falling.

There are already seven sets of EKKÓ trawl doors in use:

- EKKÓ midwater doors in Iceland
- EKKÓ semi-pelagic doors, flying just over the bottom with bottom trawls, in Iceland and,



▲ A set of EKKÓ trawl doors on the stern trawler Vestmannaey.

very shortly, in England

- EKKÓ semi/bottom doors, flying just over the bottom with shrimp trawls, in Sweden

The weight of the EKKÓ trawl doors can be changed by adding or removing second-hand chains from inside compartments. The novel design has so many innovations that the team applied for four different international patents. The four innovations are air foil-shaped trawl doors, a novel connection for trawl doors, weights for hollow trawl doors,

and a built-in water/air trap, as well as one new patent currently on application.

EKKÓ started marketing in the home market in Iceland in March/April 2019, and then entering its closest markets, such as Greenland, Faroe Islands, Norway, Sweden, Denmark, Scotland, England and Ireland. Soon after that, it will look towards other countries in western Europe, and the east coast of Canada and the US, before going worldwide.



UPGRADE TO POPULAR CLEGHORN BRONZE PUMP RANGE

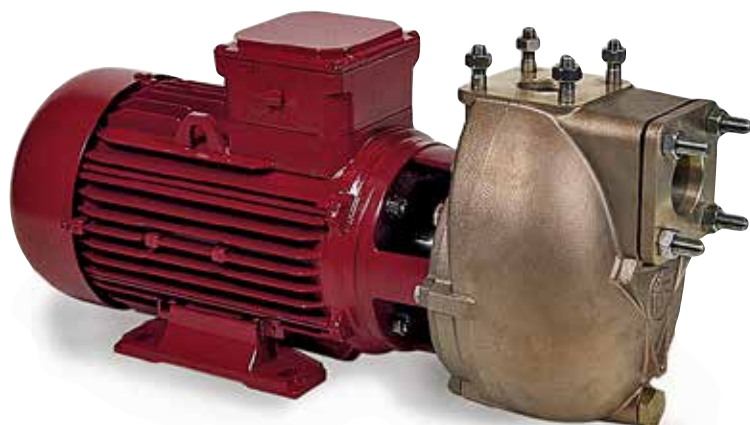
Designed and manufactured exclusively for the commercial sea-fishing industry, the products of IFP in Italy have been promoted throughout the UK and Ireland, initially by Cleghorn Waring, now part of the Xylem Group, since 1986.

The widely used Cleghorn bronze centrifugal pumps have had an internal redesign that will interest visitors to Skipper Expo Int Aberdeen 2019.

The target feature was to radically reduce self-priming time, says Cleghorn. This has been achieved, and first became available when incorporated into the 2in AM50 three-phase motor pumps in mid-2018.

With a remarkable reduction in priming time of approximately 50%, the benefit will be particularly effective in larger vessels where significant pipe runs occur, and where there are isolating valves and manifolds.

The new feature is also appearing in the pedestal versions of the AM50D, for main engine-driven applications. Design is now completed, and



▲ Cleghorn bronze centrifugal pumps have had an internal redesign to radically reduce self-priming time.

testing in progress, for the smaller 1½in AM40D models, which will be following the AM50 series into production.

The new models have identical external dimensions, and are therefore fully interchangeable with all AM40/50 series which have been sold into the UK and Irish fishing industry since 1986.

Complementing the new units will be the well-established PC models, mostly applied to gearbox

and hydraulic system cooling duties, plus TS models designed for engine cooling on propulsion motors of up to 850hp.

Charles Cleghorn says that the company looks forward to meeting with longstanding customers from the marine engineering trade, and is also keen to meet with skippers, owners and marine engineers from all of mainland Scotland and the offshore islands.

EXHIBITORS

continued

- Pronomar BV
- Proteum Ltd
- Pumptastic Ltd
- QUIKSLING Ltd
- R&D Marine
- Reid Scallop Gear
- Riverdale Mills
- RNLI Fishing Safety
- RNLI Fundraising
- RSM UK Tax and Accounting Ltd
- Savant Financial
- Scandic Pelagic
- Scania Engines
- Scanmar
- Schoeller Allibert Ltd
- Scottish Fisheries Museum
- Scottish Fishermen's Federation
- Scrabster Harbour Trust
- Seafeld Navigation
- Seafish Industry Authority
- Seaglaze Marine
- Seakeeper
- Sequest Systems
- Selstad As
- Selva Marine
- Sentronik As
- Service Team Skagen
- Shetland Islands Council
- Shetland Seafood Auctions (SSA)
- Shetland Seafood Quality Control (SSQC)
- Shetland Shellfish Management Order (SSMO)
- Ship Building Asia Ltd
- Ships Electronic Services
- Sior International
- SIRM UK
- Skipskompetanse As
- Skipsteknisk As
- SL Power
- Sola-Cure
- Solent Engineering Services Ltd
- Specialist Small Craft
- Stadpipe As
- Stadyard As
- Sunderland Marine
- Swan Net-Gundry Ltd
- Teamac Marine Paints
- Tecmarine Ltd
- The Fishermen's Mission
- The Skipper – show organisers
- Thistle Marine Ltd
- Thyborøn Doors
- Thyborøn Port
- Treffjar Ltd
- TT Oils
- Tyson's Ships' Riggers
- Ulvesund Elektro As
- Verlo As
- Vestvaerftet
- Visserij Co-operative Urk
- VMS Group
- Volvo Penta
- Vonin
- Wärtsilä
- Westmek As
- Woodsons
- World Fishing & Aquaculture
- Yamaha Motor Europe NV
- Yanmar Europe BV
- YC Europe
- Zamakona Yards
- Ziegler Ice Machines (UK) Ltd

COMMERCIAL OILS

Commercial Oils, part of Certas Energy Lubricants, will be displaying a wide range of lubricants and greases on its stand at the Aberdeen Expo.

Certas Energy is the largest fuels and lubricants distributor in the UK, and its marine customers range from large commercial supply vessels and cruise ships to pelagic, whitefish and shellfish boat operators. The requirement for reliable service, high-quality durable products, and expert advice, when it comes to marine lubricants, is the same across them all.

Valvoline marine solutions

The open water can be unforgiving on marine

equipment. Businesses need confidence that what they're putting into the engine will protect against deposits and corrosion, without sacrificing performance.

Valvoline marine solutions are developed in close collaboration with Cummins and other manufacturers to deliver on a wide variety of marine conditions and technical requirements.

Backed by the support of a dedicated technical team, you can trust that Valvoline marine products stand up to your vessel's design and conditions, delivering value and allowing you to maximise every engine hour. Because, as specialists in heavy-duty lubricants since 1866,

Valvoline knows it's really only about three things: blood, sweat and oil.

"We're looking forward to returning to Aberdeen. Our team will be on hand to provide expert advice and support for marine engineers, vessel owners and skippers, in choosing the right lubricant to solve their most complex challenges. We'll be showcasing our range of Valvoline lubricants and Tectyl rust preventatives, as well as Valvoline Marine Calcium 2 grease, which has shown excellent results for durability, tackiness and seawater resistance when compared to competitor brands," said Andrew Salton, general manager at Certas Energy Lubricants.

ARS ANGLIAN DIESELS SHOWCASING PROPULSION PACKAGES

First-time exhibitor ARS Anglian Diesels Ltd will be showcasing its hydraulic and electric propulsion packages, including its new range of Aquamot units.

ARS has over 50 years of experience in the supply and service of hydraulic transmissions systems in marine applications. Established in 1969, ARS became a leading supplier of hydraulic transmissions and control systems within the marine industry, with its innovative design and capability of building bespoke systems that can be tailor-made to suit each customer's requirement.

Furthermore, ARS can integrate additional hydraulic requirements within its system to operate thrusters, winches



▲ A wide range of hydraulic and electric propulsion systems will be displayed by ARS Anglian Diesels.

and generators without affecting the main propulsion circuit.

Its equipment can be found on a wide variety of inland water craft, narrowboats, Dutch barges, floating hotels and restaurants, entertainment vessels, fishing boats, yachts, catamarans, ferries, sea-going vessels and workboats, where its systems can be of a standard build, or constructed to a bespoke specification to meet its clients' needs.

ARS works with some of the world's leading manufacturers, supplying fixed and variable pumps and motors, closed-loop pumps, directional valves and torque motors, and supplying high-quality products from Parker, Denison, Hydro Leduc and PWG. In addition to offering full propulsion systems, ARS also offers a full repair and service package from its central location in Wakefield, West Yorkshire.

Certas

SWAN NET-GUNDRY – AT THE FOREFRONT OF DESIGN AND INNOVATION

At Aberdeen once again this year will be Swan Net-Gundry (SNG), one of the largest net-making companies in the world, which has been in operation for more than 50 years.

SNG's steadfast commitment to its ethos of strength through experience and innovation has ensured that the company has continually grown over the years. With over 90 employees and nine locations worldwide, it is one of the most successful players in the industry.

The SNG pelagic team consists of the some of the strongest and most experienced designers in the industry. They pride themselves on being at the forefront of designing trawls, and on ensuring that they recognise problems that need to be solved before their customers do.

Striving to improve is fundamental to any good designer, and that stands true at SNG. The use of modern technology alongside traditional methods has ensured that all aspects are taken into

consideration when it builds trawl gear.

As eight-panel bellies are becoming more and more popular in SNG's trawls since they were introduced years ago, the company recommends the eight-panel design in trawls with Helix, PEPA, L&R and Nylex braid. Frame ropes range from SNG's well-known Kraftex rope, which is the leading preference for pelagic skippers, as it is very stable and ultra-strong.

In this area, SNG has recently developed a new Prima/PE/Dyneema-mix footrope, which has already proven itself in some field tests. It is designed to be more resistant to the abrasiveness of the seabed bottom when any contact occurs. This rope has since been used in rigging applications, where it has proven to be exceptional.

SNG has also had fantastic results from its new wide mackerel brail, which it launched recently. These brails incorporate Dynlce bands of netting on the top, middle (where required) and tail bands, complete with Swan-Lock



▲ SNG's new wide mackerel brails, incorporating Dynlce bands of netting and Swan-Lock handles, are delivering 'superb quality' fish.

handles. This creates more flair in the brail because it eliminates the conventional steel rings. The greatest testimonial SNG has received on these new-style brails is from international fish buyers who say the fish received is of 'superb quality'.

ADERCO FUEL TREATMENTS

Aderco specialises in environmentally friendly fuel treatment solutions for light, middle and heavy distillates, and residual and hybrid fuel oils. With over 35 years of continuous R&D and field experience, it has unparalleled expertise when it comes to treating petroleum-based fuels. Aderco currently treats 40bn litres of fuel annually.

Aderco will be exhibiting at the Skipper Expo Int Aberdeen 2019 alongside its partner Andrew Deacy from Engine Solutions IE (Aderco's representative in Ireland). Its aim is to support the fishing industry with a solution for bad-quality fuel and



▲ Aderco fuel conditioner.

the dreaded diesel bug.

Peter Stevenson, managing director of Aderco Ltd fuel treatment says: "Following the success of the Galway Skipper Expo in March, it is clear that the fishing and small-boat industry is in need of a product that can help with well-known fuel issues.

"The smaller-vessel market is fairly new to Aderco, and the Expo Int Aberdeen will give us the perfect opportunity to meet a large proportion of the key players in this industry, and have technical discussions on how we can help, and share the proven Aderco solution."

Olex

WIDE RANGE OF NEW BUILDS BY PARKOL

Parkol Marine Engineering has recently launched two new boats, Fruitful Bough PD 109 and Carvela K 751, from its Whitby and Middlesbrough yards, for Peterhead and Orkney owners.

The 22.2m twin-rig trawler Fruitful Bough ran fishing trials from Whitby last week, less than 12 months after skipper Robert West signed the build contract at last year's expo.

Four new boats, Summer Rose OB 141, Guiding Light H 90, Atlantic Dawn CN 25 and Uberous FR 50 were handed over to their respective owners at Oban, Peterhead, Islay and Fraserburgh in 2018.

Another four new vessels are currently at varying stages of completion at Teesside and Whitby. These include a new design of 24m twin-rig trawler, a 19m vivier-crabber, a 33m beam scalloper and a salmon feed boat.

Parkol was established 50 years ago as a boat repair company in Whitby. The company has now grown tenfold. The team has wide-ranging experience of boatbuilding, from fabrication to engineering, electrical

work, pipe-fitting and project management. In 2017, the company opened a second yard in Middlesbrough to enable it to service unprecedented demand and build bigger and more diverse types of vessel.

Parkol's bespoke products and quality service are underpinned by an 80-strong, highly skilled in-house team, supported by a hand-picked network of specialist contractors. The company has built vessels for clients all over the UK, from the Shetland and Orkney Islands to the east and west coasts of Scotland, the Yorkshire coast, Pembrokeshire, Cornwall and Devon, and is receiving enquiries from further afield in Europe.

The boats it has built range in length from 10m to 34m, including twin- and single-rig trawlers, pair-trawlers, gill-netters, pair-seiners, vivier-crabbers, tugs, scallopers, pilot vessels and pleasure craft. It designs every new vessel to each customer's specific requirements, and offers leading-edge solutions to enhance crew safety and comfort, fuel efficiency and productivity.



▲ The two recent new builds by Parkol – Fruitful Bough and Carvela – berthed at Whitby.

NORDSØTRAWL A/S

Loading a new whitefish net from Nordsøtrawl's netmaking premises, for delivery to a vessel.



Nordsøtrawl A/S, a member of the international Hampiöjan group, is a specialist in pelagic trawls, semi-pelagic trawls, bottom trawls, shrimp trawls and fly-shooting.

The company is a supplier of netting, twine, ropes, lines and ironware. In short, it is a comprehensive fishing gear supplier for all kinds of vessels, right up to the biggest super-trawlers.

According to the company, the use of modern technology, experience and round-the-clock service combined with first-class craftsmanship makes Nordsøtrawl one of the leaders in the field.

KT NETS – A NEW ‘TWIST’ IN TRAWL DESIGN

Irish net design and manufacturing company KT Nets continues to lead the way in the production of highly successful pelagic trawls – so much so that many of the leading pelagic trawlers nationally, and the world over, are opting for KT Nets’ unique designs.

The trawls produced by KT Nets have built up a strong reputation for containing the best materials, and come with the added bonus of the knowledge that this gear has been designed

and built by three of Ireland’s most experienced trawl manufacturers, who have many decades of history in the net industry behind them.

One of many unique innovations of KT Nets’ trawl designs is the inclusion of ‘Combi Twist’ – twisted strands that have been plaited together for added strength and durability. This concept has been developed by KT Nets with the assistance of the Van Beelen company in the Netherlands.

With various products to

choose from, many often expensive, KT Nets set its focus on coming up with an alternative and, since 2015, has been producing a twine/rope that has the advantages of twisted and the characteristics of braided, especially for use in single-boat trawls.

KT Nets’ MD Danny Gallagher explained that the first trawl with the new Combi Twist factor was a blue whiting net for the Killybegs pelagic vessel Antarctic.

“Eamon and Gerard McHugh were extremely happy with its performance and, as a result, went on to order several scad/mackerel trawls with the Combi Twist concept incorporated in them,” he said, adding that the company didn’t promote the success of the new material until it had fully proven itself.

Having now certainly passed all their tests with flying colours, these new trawls are now onboard many successful pelagic boats, including Voyager, Western Viking, Sheanne, Veronica and Ocean Star. A number of new vessels currently under construction across Europe also look likely to



▲ KT Nets’ first trawl with the new Combi Twist factor was a blue whiting net...



... for the Killybegs pelagic vessel Antarctic.

opt for this concept from KT Nets.

KT Nets was established in 2003, with the aim of providing customers with high-standard trawls, not only capable of withstanding the rugged demands of the Atlantic’s tough weather conditions, but also of maximising catch rates using state-of-the-art trawl design technology.

The company’s impressive net loft facilities, located near Killybegs, Ireland’s premier fishing port, are an added attraction for

customers, as the port provides access to a natural deep-water harbour on the edge of the North Atlantic, and allows the KT Nets repair team easy access to the North Atlantic fleet.

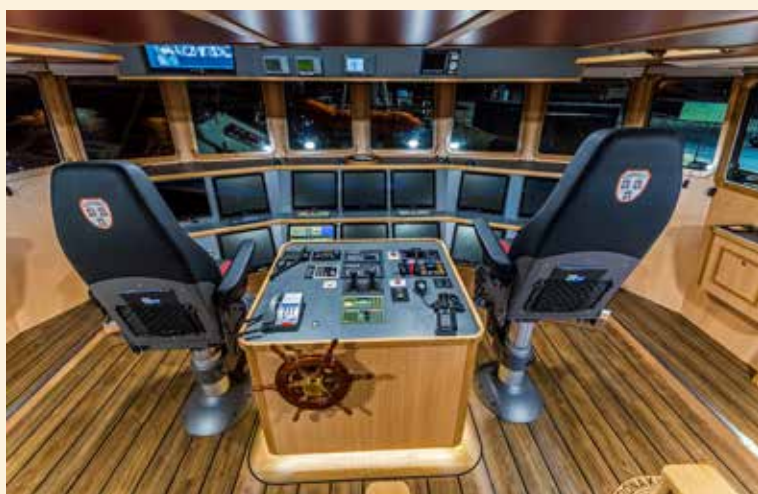
As always, the company will again attend this year’s Skipper International Expo in Aberdeen, and looks forward to meeting existing customers, as well as those wishing to discuss KT’s particular brand of twine/rope/trawl design.

COMPREHENSIVE RANGE OF SERVICES FROM MOONEY BOATS

Irish exhibitor Mooney Boats is based on a five-acre site at Killybegs, Co Donegal, which features a 3,000m² building shed and a 25,000m² state-of-the-art marine chandlery store, stocking everything a vessel will ever need.

With its own 7t travel lift on site and, adjacent to its yard, a 600t DAFM syncrolift facility for larger vessels, Mooney Boats specialises in boatbuilding, ship repairs, and services such as welding and fabrication, in steel, stainless steel and aluminium, installation of engines and gearboxes, stern gear overhauls and repairs, hydraulics, turning and milling, painting, shot-blasting and hot-zinc metal spraying, and much more.

On its display stand at Aberdeen, the company will be showcasing some recent new builds, such as the 27.5m trawler Fiona K III T 117, as well as brand new projects, including two



▲ The wheelhouse interior on the 27.46m trawler Fiona K III, which Mooney Boats delivered to Tralee skipper Tom Kennedy five months ago.

vessels being built for Scotland – Amethyst and Ocean Challenge.

Mooney’s will also be discussing the maintenance

and repairs side of its business, which has experienced significant domestic and UK/European growth throughout 2018.

EXPERT SHIP DESIGN FROM SKIPSTEKNISK



▲ Research was designed by Skipsteknisk. (Photo: Ivan Reid)

The 80m midwater trawler Research LK 62, designed by Aberdeen exhibitor and Norwegian ship design company Skipsteknisk, is the first Scottish pelagic vessel to be equipped with electric-drive deck machinery.

Powered by a Wärtsilä main engine that is included in Guinness World Records for being the most fuel-efficient engine of its type, the Shetland midwater trawler is also the first boat in the world to use electric fish pumps. The trawled mackerel that Research delivered at the Sperre factory in Norway last year had the same quality as the purse-seined fish.

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SUNDERLAND MARINE RECOGNISES IMPORTANCE OF NEW TRAINEES FOR THE FUTURE OF FISHING

The introduction of new trainees is vital to the sustainability of the industry, and is an important focus area for Aberdeen exhibitor Sunderland Marine. The Newcastle-based international insurer of fishing vessels continues to build upon its relationships with fishing colleges, lending its support to courses for trainee fishermen.

Ciaran Gilmore had 'never even met a fisherman' when he first embarked on training at Whitby and District Fishing Industry Training School. Originally from Manchester, Ciaran comes from a line of joiners and, after leaving school, he too initially took up the family trade. However, he soon discovered it wasn't for him, and set his sights on something completely new.

Twelve months later, Ciaran had successfully completed his apprenticeship, and was nominated for the Apprentice of the Year (Seafishing) Award, which is sponsored each year by Sunderland Marine.

Craig McBurnie, marine underwriting manager, who presented Ciaran with the award last November, said: "Sunderland Marine is

committed to supporting the training of new fishermen, and has a longstanding relationship with Whitby Fishing School. It is always a pleasure to be able to recognise the success of young fishermen at the beginning of their career."

As well as supporting new trainees' entry to fishing, Sunderland Marine uses its strong connections with fishing colleges to promote high safety standards for crew onboard. Its illustrated guide 'Safe Out, Safe Home' is a popular safety resource for new crew, and the company also continues to sponsor new safety training equipment for colleges.

Ciaran's career continues to go from strength to strength; he has recently completed his bridge watch-keeping course and under-16.5m skipper's ticket, and is enjoying his new working life onboard the Summer Rose. He doesn't miss the daily Manchester commute, and is settling into life in Scarborough, travelling to the west coast of Scotland, the Irish Sea and the coast of France with the Summer Rose.

What advice does Ciaran have for other young people considering a career in fishing?

"Just go and give it a try," he urges. "There is good money to be



▲ Ciaran Gilmore received the Whitby and District Fishing Industry Training School Apprentice of the Year (Seafishing) Award from Sunderland Marine underwriting manager Craig McBurnie...

made, especially in comparison to apprenticeships, and I am learning all the time." He describes his time at Whitby Fishing School very positively as a 'completely different experience' to school and the usual post-16 educational routes. He enjoyed the practical experience gained from working with a skipper and going out on the boat every day, but warns that you have to be keen to work – or you won't last the early mornings!

When asked about his future, Ciaran's plans are to continue his fishing career. He wants to try trawling for fish, and to have the experience of taking his own boat out. One day, he would like to work somewhere warmer, and he is already dreaming of life as a fisherman off the coast of New Zealand.

Fishing colleges or training programmes that would like copies of Sunderland Marine's 'Safe Out, Safe Home' guide for new crew should get in touch with Katherine Clifford on: 0191 232 5221 or: Katherine.clifford@nepia.com

... before being offered a berth on the new Oban scalloper Summer Rose.



Sunderland

E-CATCH – MADE BY FISHERMEN FOR FISHERMEN

Continuous developments of its products, and finding new ways to make them better for its customers, has resulted in busy times for E-Catch.

E-Catch has a clear view of the needs and wishes of its customers, thanks to long-term tests and a close partnership with fishermen and representatives from the fishery sector. The company has gained extensive experience in terms of needs from professional practice, and has created products that meet all legal requirements, like E-Catch, an electronic logbook for fishing vessels, and M-Catch, a complete catch management platform.

The M-Catch platform

offers fishing vessel owners, fleet managers and producer organisations an insight into the message flow of current and historic fishing trips from their vessels. All messages, such as departure, daily report and end of fishing, are visible on the portal immediately after transmission.

The M-Catch portal has different tools available for statistics and reports, and gives the possibility of creating and sending landing declarations (LAN) and sales (SAL) messages ashore. Your vessel data is secured with a log-in and password, so only you are able to view the information of your vessel or fleet.

MCA PROMOTES LIFEJACKET SAFETY



▲ Brixham fisherman Reegan Green with the HM Coastguard helicopter S&R team who airlifted him to safety in severe weather. (Photo: Greg Caygill)

Forty-two commercial fishermen, who drowned at sea since 2007, might still be alive today if they had been wearing a lifejacket.

These are the tragic, raw statistics outlined by the Casualty Review Panel, which meets annually to discuss maritime fatalities.

Lifejackets help save lives because they keep a person afloat, keeping their airway clear of the water, so they can breathe.

And there's no better example of this than the powerful story of Brixham fisherman Reegan Green.

Reegan survived for over an hour in icy 20ft seas, when he fell overboard just over two months ago, before he was rescued by a HM Coastguard helicopter. His crewmates on the Brixham beam trawler Emilia Jayne BM 10 did all the right things by throwing a smoke marker, sending a distress alert, and issuing a Mayday broadcast.

Newquay Coastguard helicopter and Salcombe and Torbay RNLI all-weather lifeboats quickly took to the rough seas, but it was the helicopter that spotted the reflective tape on Reegan's lifejacket and quickly plucked him from the water. Despite being in very rough seas of 9°C for over an hour, Reegan was alive.

"I've been doing search and

rescue for nearly 20 years, and Reegan was the first fisherman I've taken out of the water who was conscious and alive – but he was also the first fisherman I took out of the water wearing a lifejacket." These are the hard-hitting words of Coastguard winchman Spike Hughes, speaking after Reegan's rescue.

If you ask anyone who was involved in Reegan's rescue, they'll all say the same thing – Reegan rescued himself that day, because he chose to put on his lifejacket when he went to sea.

The MCA is passionate about safety, and how it can help fishermen to prevent man-overboard situations from occurring. By far the most important thing is wearing a lifejacket, but there are a lot of other things they can help with too. Come and chat to them on Stand 75 about how they can help with:

- Registration of fishing vessels
- Inspections and surveys of fishing vessels
- Advice on modification of fishing vessels
- Advice on crew safety
- Advice on compliance with regulations
- Crew emergency drills
- Fishing codes of practice
- ILO 188 Work in Fishing Convention.

Please stay safe at sea! Find out more at: gov.uk/mca

HIGH-QUALITY FISA NETTING



▲ **FISA SUPRA netting in use aboard the Icelandic midwater vessels Jona Edvalds and Asgrimur Halldorsson (ex Lunar Bow PD 265)...**

►... and the Dutch-owned twin-rig trawler Annegina PD 43.

FISA, South America's leading manufacturer of twisted and braided netting, will be attending Aberdeen for the first time this year.

Already established in Canada, the USA, Iceland, Spain, England and the Netherlands, with a reputation for high-quality and reliable deliveries, its netting is currently used in trawl, seine and beam trawl nets, in both PE compact twine and nylon qualities.

FISA's drive in recent months in the UK market has led to repeat orders from the South West, and the company is looking to build on this success throughout the UK and Ireland.

Some major European companies already using FISA netting include Skinney-Thinganes of Iceland, Ocean



Fish of the UK, and the Ekofish Group of the Netherlands.

On display will be FISA's third-generation SUPRA Advanced Fibres HDPE netting, along with the knotted and twisted knotless (SHOGUN) nylon nets. These solutions have made FISA a household name in the world of high-quality netting.

FISA intends to use Aberdeen as a stage to make introductory offers and establish long-term relationships with all companies interested in purchasing directly from a prime supplier.

MSI SUPPLIES 12 KARSTENSENS NEW BUILDS WITH SONIHULL PROTECTION

The latest pelagic fishing new builds from the world-renowned Karstensens Skibsværft A/S shipyard in Skagen, Denmark have all been fitted with Sonihull ultrasonic anti-fouling systems to protect their box coolers.

Each of the 12 vessels has been specified with two Sonihull 8 units and one Sonihull Duo unit. With a total of 18 independent ultrasonic transducers, there's enough coverage to protect all the box cooler systems and pipework from marine biofouling, without the need for any impressed current or dosing systems. The systems were supplied by Marine Supplies (International) Ltd, the Sonihull distributor in Scotland.

"The Sonihull systems have been specified because they are easier to install and have a lower initial outlay for owners, with no expensive regular maintenance required," said Gavin Fisher of MSI Ltd. He added, "Sonihull also integrates seamlessly with other onboard electronic systems, with no interference with Scanmar, Simrad and Marport equipment."

Sonihull's ultrasound anti-fouling systems demonstrate an unmatched combination of qualities for protecting box coolers against the build-up of marine growth. They provide effective biofouling protection without the poisonous environmental legacy of biocides, metal compounds or microplastics. They are also easy to install and can reduce lifetime costs by up to 50%, compared to similar impressed-current anti-fouling systems in fishing boats. They will also reduce maintenance costs, extend maintenance intervals, and can facilitate quick mothballing and



The 75m pelagic trawler Strand Senior, completed by Karstensens shipyard in March 2019, is fitted with Sonihull ultrasonic anti-fouling systems to protect the box coolers.

reactivation without dry-docking.

There are also no penetrations or welding while fitting, and everything is bonded to the dry side of the RSW handling equipment or pipework. This removes the requirement for extra surveys, pressure testing and documentation.

The Karstensens-designed

and -built vessels currently using Sonihull anti-fouling systems include hull numbers 442 to 453. These are pelagic fishing vessels ranging from 49.55m to 79.75m in length, to be operated by a variety of owners based in Denmark, Norway, Sweden and Scotland. They include the new Charisma LK 362 and Lunar Bow PD 265.

AUCXIS – A WORLDWIDE MARKET LEADER IN E-TRADE SYSTEMS AND RFID SOLUTIONS

Aucxis, an automation company active since 1983, will promote its electronic trading and RFID track and trace solutions.

Over 65 fish auctions and selling organisations worldwide are using an Aucxis e-trade system for their sale, or to automate sales-related processes, like an e-logbook, catch management, supply forecast and after-sales administration.

Aucxis can modernise your specific sales method.

Products can be sold in different ways: by Dutch auction, in a catalogue or via a web shop at a fixed price, or through mediation.

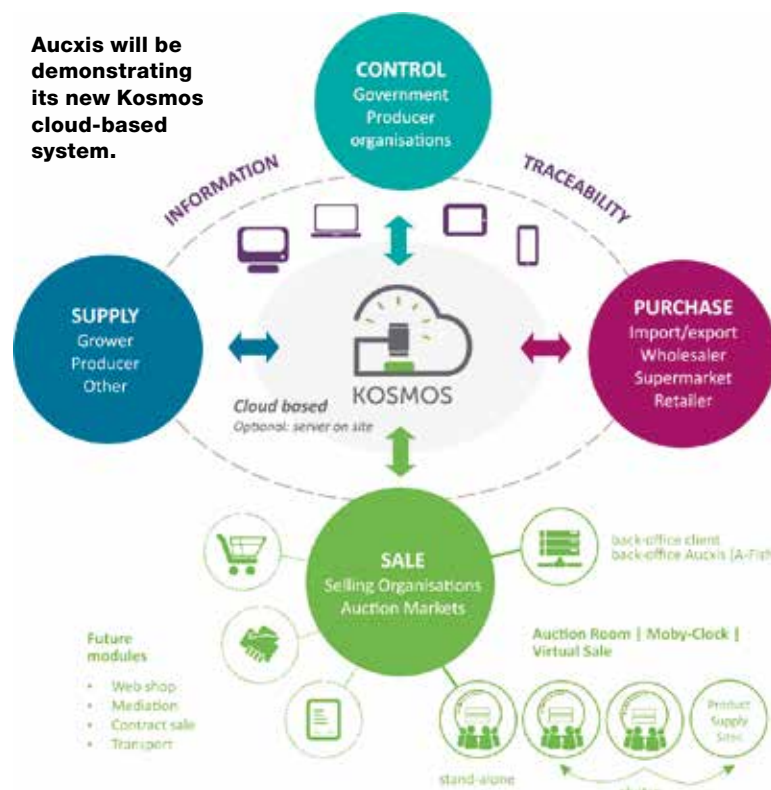
Get to know Kosmos, its new innovative auction clock and information platform in the Cloud.

Users can also retrieve general statistics or personal info using the information portal.

It also allows linking with the customer's back-office package. The user logs into the platform through their smartphone, tablet or PC, and can immediately use the software application.

All of the above solutions are realised without making any concessions with regard to reliability, transparency or local traditions.

Aucxis will be demonstrating its new Kosmos cloud-based system.



Aucxis also offers solutions to track and trace fish from catch to plate, using RFID, barcode or QR. The web application F-Track,

for example, offers the users in the chain the possibility of following the movement of fish boxes and their contents in real time.

Peterhead

MAJOR ANNIVERSARY FOR SCOTTISH FISHERIES MUSEUM

The Scottish Fisheries Museum is once again looking forward to participating in the Skipper Expo in Aberdeen this year. At its stand you can browse and buy from its selection of books and goods from the museum shop, and pick up one of the new 2019 museum leaflets.

The Scottish Fisheries Museum is now 50 years old, and July 2019 sees the start of the museum's anniversary celebrations. It is planning a series of events to celebrate its anniversary, from summer 2019 to summer 2020. Drop by the stand to pick up a programme and find out what is happening over this year of celebration. There will be something to suit all tastes!

The museum is also preparing to welcome back its flagship, *Reaper*, after major restoration work at Babcock's, Rosyth. Its return is scheduled for 4 July, when a flotilla of over 50 boats will escort *Reaper* back along the Forth to Anstruther, where an opening ceremony for the 50th anniversary and to celebrate *Reaper*'s return will commence with entertainment on the pier from 2-6pm. The museum would love to see as many boat enthusiasts there as possible, as this large flotilla will be a sight to behold; it really is an opportunity not to be missed.

Also launching on 4 July is the museum's anniversary exhibition 'Boats, Fish and Folk: 50 years of Scottish Fishing', along with its very own special-edition St Ayles Ale. The exhibition will look at the past 50 years of the fishing industry, charting the changes to the fleets, the harbours, the livelihoods and the lives of those who work to put fish on our tables.



▲ The iconic *Reaper* is scheduled to return to Anstruther on 4 July after major restoration work.

The Scottish Fisheries Museum team look forward to seeing everyone at the Skipper Expo 2019, and hope that many of you can join them in Anstruther during their celebration year.

ILO 188 – HOW IT SHOULD APPLY IN PRACTICE IN THE FISHING INDUSTRY

Mackinnons is delighted to announce it will be hosting a practical ILO 188 briefing, in conjunction with both the Marine and Coastguard Agency (MCA) and the Scottish Fishermen's Federation (SFF), on the morning of 17 May, from 8.45-10am, just before the start of Skipper Expo Int Aberdeen 2019 at the AECC.

The ILO sets out expected working and living conditions for fishermen in all types of fishing vessels.

This presentation, preceding Skipper Expo Int Aberdeen, will be an informative and interactive guide to some of the key elements of this important piece of marine legislation.

The ILO 188 provides a framework for fishermen's working agreements, clearer expectations on health and safety



▲ Julie Carlton of the MCA.

for fishermen, and new rules on health checks and certification for crews.

With expert input from Derek Cardno of the SFF and Julie Carlton from the MCA, along with Martin Sinclair of Mackinnons, the aim of the event is to highlight what members of our fishing industry need to be aware of, and need to be doing to ensure compliance with both the law and MCA surveyors.

This important event for fishermen begins at 8.45am in the Balmoral Suite at the AECC – entrance is through the main doors of the AECC, next to the old Holiday Inn.

The presentation will finish in time for the start of Skipper Expo Int Aberdeen at 10am.



▲ Derek Cardno of the SFF.

BUSY YEAR FOR ASTANDER SHIPYARD

It has been a busy year for Aberdeen exhibitor Astander shipyard, with several fishing industry projects successfully completed.

These included the renewal of bulbous bows on sister Irish midwater trawlers *Father McKee* and *Brendelen*.

It was the second visit of *Father McKee*, after its first docking in Astander in 2016, this time bringing the sister vessel *Brendelen* with it.

The new bulbous bows were built in its workshop, with the technical information and drawings provided by Atlantek Maritime, the Irish naval architect design office appointed by the owners. The new design will enhance the vessels' behaviour in rough seas.



▲ New bulbous bows being fitted on *Father McKee* and *Brendelen*.

behaviour in rough seas.

Akraberg was the first vessel visiting from the Faroe Islands in the history of Astander, showing that distance is not an obstacle.

The main jobs performed included:

- Full blasting and painting of the hull, decks, superstructure and deck machinery, including zinc spray of the trawl gallows frame, ramp and trawl deck
- Overhauling of the main engine, bow and stern thrusters
- Upgrading of the electronic systems in the bridge and accommodation area
- Pipework
- Works in fish factory.

Meanwhile, for the Irish vessel *Lovon*, a new foundation, and additional modifications in the engineroom, were carried out.

A very strong commitment to the customers, based on fair play, flexibility and transparency, is established with each and every new customer from the

very first contact, making things very easy-going to the end, and resulting in what the yard says is its main strength: customer satisfaction.

The special requirements of fishing vessels and fishing vessel owners match perfectly with the yard's capabilities, and the way business is understood at Astander.

Astander, with more than 140 years of experience in the ship repair industry, is located in the port of Santander, in the Bay of Biscay on the northern coast of Spain.

Competitive prices and unbeatable delivery times, together with a convenient location and better weather conditions than those in countries further north, present Astander as the perfect alternative to the traditional destinations of the international fishing fleet when the time comes for maintenance or special projects in Europe.



▲ The pristine Faroese stern trawler *Akraberg*, ready to leave Astander's drydock after a major refit.

DRAWM FISH TUBS

DRAWM has been supplying fish tubs to the UK and Ireland fishing industry for over 12 years.

Through commitment to quality, it is driving repeat sales, and discerning customers are reaping huge savings, when compared to the competition. The double-walled insulated containers are especially recommended for use by companies in the processing, storage and transportation of fish. The high-insulation container keeps the contents fresh on ice or liquid ice to maintain its initial quality, and thus maximise its value.

Kieran Ward, general manager of DRAWM, is delighted to showcase the new heavy-duty 660-litre insulated fish tub at Aberdeen. He explained: "This sturdy tub with middle feet ensures there is no bowing at the bottom when used by processors in the harshest of conditions. We now supply this as standard. Superb for hoisting, forklifting and stacking when filled with product, they come in a range of colours. The tubs are excellent for holding the



▲ DRAWM's sturdy new 660-litre insulated tub with middle feet.

temperature of the ice, and ensure the premium quality of fish."

The tubs, from the new state-of-the-art mould, can be printed with the company name.

Kieran commented, "The quality of our fish tubs, and especially the affordable prices, have driven our sales to record levels. We will have the full range of insulated containers on display, including the 70, 100, 220, 310, 660 and 1000 litres."

ASAP SUPPLIES EXPANDS ITS RANGE

ASAP Supplies continues to expand its range, with its latest addition coming from Index Marine. This new line includes high-quality cable glands, galvanic isolators and junction boxes – all at affordable prices.

With ASAP's extensive industry knowledge and its commitment to customers, the company believes this range will be extremely beneficial.

The new selection of cable glands is designed to perform in the harshest environments, and is backed by a waterproof and dustproof IP68 rating. Choose from side-entry or

straight through for single or multiple cables, and a stainless steel option.

The galvanic isolators have an IP68 rating and are available in 16 or 32 amps. They eliminate the potential difference between boats and the shore, preventing action caused by the different metals used.

The junction box kits are water- and dustproof to IP67, ensuring they are suitable for the marine environment. These junction box kits come with up to 10 flexible ports with double-membrane seals, and up to 12 connector blocks.



Galvanic isolators will be among the new range of Index Marine equipment exhibited by ASAP Supplies.

MEST SHIPYARD – JUST A FEW HOURS AWAY

MEST shipyard could well turn out to be your next docking in the Faroe Islands, with the yard being much closer than many people might think. Every year, a number of large and small vessels from Iceland, Greenland, Norway and Scotland choose to get their repairs and maintenance done at MEST shipyard in the Faroes.

Exhibiting at Aberdeen this year, MEST shipyard consists of two shipyards – one based in the capital, Tórshavn, and the other in the longest fjord in the Faroes, in Skála.

The distance to everything is short – to suppliers, hotels and restaurants. Modern Airbus flights travel to the islands two or three times a week from Edinburgh, and the flight takes only one hour. Similarly, flights are regular to Bergen in Norway.

In Tórshavn, there are two slipways – one 80m long, with

a lift capacity of 2,500t, and the other 70m long, with a lift capacity of 800t.

In Skála, there is a drydock that is 115m long and 20m wide, and a 90m slipway with a capacity of 1,100t.

Modern shipyard – and 400 skilled craftsmen

At Skála and in Tórshavn there are modern workshops, construction halls, and a number of special services. There is also a very large spare parts store with some 35,000 different parts in stock – from filters, hydraulics and electronics to cranes, winches and motors.

The company's flexible working style is deeply rooted in the Faroese culture and maritime history. During its 120-year history, it has learnt that reliable solutions and a competitive price level ensures its customers keep on returning.



▲ MEST shipyard at Tórshavn in the Faroe Islands.

MARSHIP OFFERS AT ABERDEEN EXPO

MarShip will be promoting its solutions to prevent diesel contamination. Gone are the days of filling up your tank and forgetting about it. These days, you have to manage your fuel like you manage your engine.

Why?

With the introduction of ultra low sulphur diesel (ULSD), fuel has lost its natural lubricity and is more prone to contaminants such as diesel bug and harmful injector deposits.

We've all heard of diesel bug, and if you haven't experienced it first-hand yet, then you are one of the lucky ones.

What is diesel bug?

Basically, it is microscopic yeast, fungi and bacteria that are present in diesel, caused by water in your fuel. We're not talking about large amounts of water here – the smallest amount (a teaspoonful) is enough for diesel bug to take hold and breed in your tank. Most tanks will have water! Diesel bug grows extremely quickly, and without treatment, will stop your engine.

How do you kill diesel bug?

Remove the water, and use MarShip's DieselAid B, which is a broad-spectrum biocide – this kills it 'dead'. The product has engine manufacturer approval.

How do you remove the water?

If your tank is fitted with a drain, use it as part of your routine maintenance. If you do not have a drain, then use a Diesel Dipper. This is a fixed installation, independent of the engine, that sucks from the floor of your tank, below the fuel suction. MarShip recommends this in addition to your Racor or



▲ Diesel bug.

equivalent.

Removing the water is only half the solution. Is your engine smoking? Using MarShip's DieselAid LDB will give your fuel protection against diesel bug and deposits, while replacing the lubricity now absent, thereby saving you money from increased fuel consumption, downtime, expensive replacement components, and unnecessary engine wear.

With the removal of water

and use of its DieselAid product, MarShip guarantees an end to sludge-related issues.

MarShip will have a live demo model on the stand, and can give advice on products blended specifically for the fishing and workboat sectors.

Show offers

30% off DieselAid orders received at the show

Free five litres of DieselAid with every Diesel Dipper ordered at the show.

Medley Pots

50 YEARS OF EXPERIENCE FROM WÄRTSILÄ

With close to 50 years of experience in the fishing industry, a substantial reference list of equipment deliveries, and in excess of 250 fishing vessels built to its design, Wärtsilä has unique know-how and expertise, backed by a truly global footprint.

Its extensive offering for fishing vessels allows the company to enhance the business of its customers by providing solutions that are environmentally sustainable, efficient, flexible and economically sound.

In 2018, Wärtsilä supplied a Tier III-compliant 12V31 main engine to the new Shetland 80m midwater trawler Research LK 62. This unit is recognised by *Guinness World Records* as the world's most efficient four-stroke diesel engine.

The second-generation, common-rail-driven Wärtsilä 31 engine sets a new benchmark in efficiency and overall emissions performance. Diesel fuel consumption can be as low as 165g/kWh, putting it significantly ahead of any other four-stroke diesel engine currently on the market.

Its exceptional fuel efficiency is made possible through the use of new technologies, such as two-stage turbocharging, a high-pressure fuel injection system and adjustable valve actuation, in combination with the next-generation engine control system.

The 31 range is the result of engineers at Wärtsilä starting from a completely blank slate to develop a new engine family that would be considerably more efficient than anything that had come before, rather than improving an existing design.

Designing a new engine entirely from the bottom up gave the unique opportunity to examine all of the various factors that contribute to engine efficiency, making improvements in each to achieve the greatest possible gain. Combustion quality, engine parameters, heat and

flow loss prevention, and internal friction were among the issues exhaustively explored and addressed.

The most critical advance in the Wärtsilä 31 range is an engine structure designed expressly to accommodate two-stage turbocharging. While the considerable boost in efficiency associated with two-stage turbocharging was well-known, no existing engines were capable of taking full advantage of the effect. They simply could not stand up to the loading and strain that results from the step change in firing pressure. To overcome this, the engineers gave the entire Wärtsilä 31 engine structure a very robust design.

A fundamental advantage of the Wärtsilä 31 is its flexibility. The engine can be continuously operated at 10% load, and can reach full load within as little as two minutes of the start command.

A major contributor to the engine's increased flexibility is its completely redesigned valve actuation method. The new design replaced the mechanical, rocker arm-driven valve mechanism of previous models with a hydraulic system. This feature allows very smooth and precise control of valve timing, to ensure that the fuel-air ratio in the cylinder is optimised at all times. In this way, the engine can take maximum advantage of the boost provided by two-stage turbocharging, especially on partial loads.

Optimised engine parameters and adjustable inlet valve timing, combined with electronic ignition timing, result in fewer unburned hydrocarbons, and therefore vastly improved efficiency and lower emissions, irrespective of the load. An added bonus of the hydraulic valve actuation concept is that there is no need for valve clearance adjustment.

Wärtsilä invites you to review your business needs with its experts on the company's stand at Aberdeen.



▲ The Wärtsilä 12V31 main engine on the Shetland midwater trawler Research is recognised by *Guinness World Records* as being the world's most efficient four-stroke diesel engine.

COMPREHENSIVE RANGE OF WINCHES FROM AS SCAN

AS SCAN designs, produces, installs and services all types of hydraulic and electrical winches, with 45 highly qualified employees working inside a fishing business that has been established since 1967. The company has extensive experience in steel structures, and engine and hydraulic installations.

AS SCAN has its own CNC machines with CAD/CAM systems, and all products are produced directly from 3D drawings. AS SCAN evolved from being a local fishing gear provider to also becoming an export-orientated company with several products for various industries



▲ AS SCAN seine-net winches...



▲ ... and automated control screens.

and markets worldwide.

Its newest development is its unique Trawl Computer, which gives increased levels of fishing efficiency and safety on trawlers and fly-shooters. The newly developed Danish seine winch operates with only one motor, capable of adjusting the displacement from 0-100%, so freewheeling is possible and controlled. More than 25 AS SCAN systems have been installed in the past three years.

JOHN DEERE POWERSIGHT

Barrus will be showcasing John Deere and Shire Workboat engines at Aberdeen, when particular focus will be placed on John Deere PowerSight equipment.

John Deere PowerSight brings together advanced tracking, diagnostic and prognostic technologies to improve productivity, optimise uptime, and reduce operating costs. Whether you're responsible for a large fleet spread across many locations or a single John Deere-powered workboat, PowerSight can provide critical operations data to improve overall efficiency and serve as a helpful maintenance tool.

With John Deere PowerSight, you are able to remotely access and monitor all electronically controlled John Deere engines using either a mobile phone, tablet or computer. Your John Deere dealer can even perform over-the-air programming (OTAP) and wirelessly update engine software – saving you time and money.

PowerSight capabilities include:

- Monitoring engine load and fuel consumption
- Locating and getting directions to your boat
- Remote dealer diagnostics and engine



▲ John Deere PowerSight offers advanced tracking and diagnostic technologies.

performance recordings

- Alerts sent to your mobile device to give maintenance reminders and inform you of any issues immediately
- Improving security by setting up geofences and authorised hours of use.

RSM OFFERS NETWORK OF AUDIT, TAX AND CONSULTING EXPERTS

Aberdeen exhibitor RSM is a network of audit, tax and consulting experts with offices all over the world. As an integrated team, they share skills, insight and resources, as well as a client-centric local approach that's based on a deep understanding of your business.

RSM specialises in providing an integrated range of services including audit, accountancy, personal and corporate taxation,

VAT, management consultancy, corporate finance, IT advisory, restructuring and recovery, and forensic services.

It works with young entrepreneurial businesses to well-established listed and international organisations, operating across various sectors, including fishing and aquaculture, renewables and manufacturing.

The firm has national

coverage through its network of offices, including Lerwick, Aberdeen, Glasgow, Edinburgh and Grangemouth. It has access to the expertise of over 41,000 professionals in over 120 countries through its integration with RSM International.

Contact Irene Hambleton (partner) by email at: irene.hambleton@rsmuk.com or telephone: 01595 743520.

EXTENSIVE RANGE OF PROPULSION PRODUCTS FROM MMP

Aberdeen exhibitor MMP provides an extensive range of propulsion products, many of which are specifically tailored for the fisheries industry.

From large-diameter nozzle designs down to small outboard propellers for inshore vessels, the company provides for every application.

In addition, it builds and supplies complete stern gear systems, underwater hardware, rudder assemblies, and a variety of replacement spares and after-market propulsion products.

To further ensure the best customer support, MMP provides a propeller repair and refurbishment service, extending the life of your propellers.



▲ A new propeller from MMP.



▲ Le Men Du is one of a number of recent new builds to which MMP has supplied stern gear.

BUSY TIME FOR BOPP

BOPP has been busy with a number of projects, including the supply of a complete package of deck machinery to the new 27.8m whitefish vessel Audacious BF 83 for skippers David Gatt and Barry Reid.

The package supplied included three split trawl winches linked with an autotrawl system, net drums, Gilsons, steering gear, bow thruster, oil tank, hydraulic components (pumps, manifolds and valves) and control desks.

Sea trials were completed in November 2018, with service engineers from BOPP and JC



▲ Three 18/24t split trawl winches are fitted in a dedicated room forward...

◀ ... on the versatile pair-seiner/trawler Audacious BF 83.

Hydraulics of Peterhead onboard Audacious.

Meanwhile, one of the major ship-owners in France, Armement Porcher, opted for BOPP for the complete fishing package for its next two new 25m trawlers, which will be built by Socarenam shipyard in Boulogne sur Mer. The most recent one, Diogene, has been fishing successfully since last year.



MMG WELDING LTD – COMPACT GANGWAY SYSTEMS

Skipper Expo Int Aberdeen will mark the official launch of an innovative new product that will continue Killybegs-based MMG Welding Ltd's revolutionisation of gangway systems for the fishing, aquaculture and marine leisure sectors.

Built to the requirements of DNVGL-ST-0358/ISO 7061:2015, the patent Compact Gangway adjusts automatically with tide/pier levels. It features drainage-perforated tread plate steps for maximum safety and, for easy storage purposes, a unique manual folding mechanism with collapsible handrails, making it an ideal safe solution for vessels with limited storage space.

A closely guarded secret for now, the new product will, says the company, be a major addition to MMG's Compact

Gangway and will complement the existing systems that are already in use on many fishing vessels of all sizes throughout Ireland.

As part of its busy and widely varied existing marine welding and engineering operations, MMG Welding Ltd has, over the past year, invested much time and effort into R&D of new gangway and walkway systems, and these are already seeing huge demand nationwide.

Already in use on many Irish pelagic, polyvalent and demersal vessels of varying sizes, at port authority landing points, on pontoons and aquaculture farms, and in offshore construction operations across Europe, other additional accessories have been added to the custom-built

Compact Gangway, to include a transom swivel section which can be inserted to adapt to the height of the rail of the craft on the outward side – allowing the gangway to adjust with any quayside vessel movement – and a set of customised gunwale steps that attach from the vessel to the gangway.

As well as being much in demand for the larger pelagic sector, Ireland's commercial demersal/polyvalent fishing fleet is set to benefit greatly from the production of the Compact Gangway, as owners of registered Irish fishing vessels are eligible to apply for a 40% grant from BIM through the Fleet Safety Scheme for the purchase and installation of items which improve the overall safety standards onboard. This includes certified gangways.

TEAMAC MARINE PAINTS

Teamac is one of the leading brands of marine paints.

Established in Hull in 1908, it remains a family-owned business committed to providing its customers with the very best in quality and service. Its range of paint products has everything you need for your working and commercial boat needs, from marine-grade varnishes, tough marine glosses, undercoats and strong ablative antifouling, to bilge paint and robust anti-slip deck paints to combat wet conditions.

To celebrate the expo, Teamac will be giving away samples of its Anti-Slip Deck Paint, trusted on working boats since 1908. This deck paint provides an anti-slip finish for wood, metal and glass fibre surfaces (GRP). It's a ready-mixed paint with special coarse aggregates, which once applied, dries to a very grippy surface, providing a durable and decorative finish and preventing slips, trips and falls on your boat.

Visit Teamac at the show for a sample of its Anti-Slip Deck Paint and to enter its Marine Gloss competition. You could be in with a chance of winning a whisky hamper



▲ Teamac Suregrip deck paint.

and £100 of Teamac products of your choice. (T&Cs apply, and you must enter at the show and provide contact details.)

For more information on all the Teamac marine product range email: info@teamac.co.uk or call: 01482 5845233.

PROTEUM DEMOS OXE DIESEL'S LOW TOTAL COST OF OWNERSHIP

Aberdeen exhibitor, and UK and Ireland distributor, Proteum has been demonstrating to commercial operators the low total cost of ownership (TCO) of the OXE Diesel outboard. in comparison to petrol equivalents. Based on in-service data, an operating scenario over five years shows OXE's TCO to be, on average, £100,000 less than a petrol equivalent.

Proteum calculates that, for most users, OXE's higher purchase price is recoverable after 700-1,000 hours, and sooner for operators unable to reclaim VAT on petrol. To ease the upfront costs, Proteum has launched a finance package (subject to terms and conditions) for commercial operators only. It has also added a TCO information tool on its website, where users can calculate the cost profile for their operating scenarios.

Proteum recently held demo days at its facilities in Southampton, running an OXE 200hp-powered RIB. Iain Elliott of Portside Rib Charters, who attended a demo, commented: "The diesel runs very well; it's quieter than I thought it would be. The pick-up is very good. The economy is a big thing for me – that was at least half the fuel I would burn on my 250hp Yamaha – so very interesting!"

An OXE 150hp uses up to 45% less fuel than a modern 150hp four-stroke outboard, while its extended range significantly



▲ Proteum OXE Diesel outboard.

increases operational time between refuelling. Diesel's higher working efficiency, ease of sourcing and lower volatility also makes it safer and more cost-effective for commercial operators than a petrol equivalent.

"The finance package allows the operator to benefit immediately from OXE's fuel efficiency and lower ownership costs, and alleviates the pain from the upfront costs," said Neil Taylor, head of sales at Proteum.

Earlier this year, manufacturer Cimco Marine extended the OXE range with 125, 150, 175 and 200hp options to meet different customer specifications. A 300hp option is currently in development, and due to be in production by early 2020.

AQUAMESH WITHSTANDS THE TEST OF TIME AND PROMOTES SUSTAINABLE SHELLFISH CATCHING AND FARMING

Like most business sectors across the globe, the fishing industry is embracing low-impact and sustainable practices. As a result, shellfish farming of oysters, scallops and mussels has emerged as a significant aquaculture business on the coasts of many countries. This trend has encompassed Scotland, and is being fueled in part by Aquamash, the most trusted wire mesh, invented in New England.

From coast to coast around the world, lobster fishermen and shellfish farmers choose Aquamash for building their lobster traps and shellfish cultivation pens.

Roger Gillam, owner of GT Products UK, believes that Aquamash is a great multi-functional product for both trap fishing and aquaculture.

"Aquamash is versatile, and resists algae and hard fouling, and my customers spend less time repairing and a lot more time fishing. Using Aquamash saves money, reduces plastic waste and energy consumption, and the applications are endless – it's used for creels, floating shellfish culture cages, and storage and handling," he said.

James Knott Jr, CEO of Riverdale Mills Corp, said: "Creels, trays and



▲ Creels covered with Aquamash offer extended durability, and require less maintenance.

cages made exclusively with Aquamash last for years, are the most cost-effective solution, and have become the top choice for catching lobster and cultivating shellfish. Invented almost 40 years ago, Aquamash is extremely durable and can withstand up to a decade of fishing and hauling in the roughest seas and weather conditions."

Innovation, quality and customer service are always top priorities at Riverdale Mills, earning the company many awards and recognitions, including a coveted 2019 Manufacturing Leadership Award from the National Association of US Manufacturers. This

award honours organisations embracing new technologies, shaping the future of global manufacturing, and redefining the meaning of manufacturing excellence.

Aquamash is also the only wire mesh fabric in the world specifically engineered to be environmentally friendly. All Riverdale Mills products are made in the United States. For more information go to: riverdale.com

GT Products stocks Aquamash in a range of roll widths and panels at its warehouse in West Sussex, and distributes nationwide. For details visit: gtproductsmarine.com

HIGH-PERFORMANCE V3 AND EXOCET TRAWL DOORS FROM MORGÈRE



▲ A set of Morgère Exocet trawl doors in use on the Peterhead stern trawler Atlantic Challenge.

Morgère will be promoting its versatile V3 and Exocet trawl doors at Skipper Expo Int Aberdeen 2019, both of which are ideally suited to Scottish demersal fisheries, due to their excellent performance in challenging offshore conditions.

The V3 trawl door features strong reinforced construction that has been specially designed for use over rough seabeds, with its oval shape well-suited for fishing over rocks and other challenging environments.

The Exocet trawl door

is also renowned for its high performance, due to its strength and stability and excellent trawl spread, combined with reduced drag that benefits fuel consumption.

Michel Dagorn of Morgère said: "We are looking forward tremendously to the Aberdeen Skipper Expo because we have a long tradition of supplying Scottish fishermen with our high-performance trawl doors. A key factor behind our success is our determination to provide the best-quality equipment, combined with excellent customer service."

LUBRICANTS, GREASES AND FILTERS FROM TT OILS



▲ James Thores and Allan Taylor.

Peterhead company TT Oils is delighted to be attending Skipper Expo Int Aberdeen for the second year running. The exhibition allows time to meet with owners and skippers of vessels to discuss their requirements, and the products the company supplies. Established in 2017 by Allan Taylor and James Thores, TT Oils has made an impact within the fishing sector, supplying a range of quality branded lubricants, greases and filters. TT Oils recognises the

importance of using the correct oil for the application – with engines and equipment becoming more advanced, it makes it all the more important to service and maintain these with quality recommended oils. Total, Valvoline and Castrol are a few of the well-known market-leading names in the marine industry that TT Oils supplies. Also, through a network of suppliers, it can source and supply most other major brands.

As an agent for WIX filters,

the company will, on request, carry stock in line with a vessel's requirements.

Fully aware of how the industry operates, it aims to provide a service that meets the needs of skippers and their vessels. TT Oils is a company that can be relied on, and it will go out of its way to assist and be competitive with its prices.

Other services include planned quayside deliveries, day or night, pump-aboard bulk quantities, and oil sampling with analyst reporting.

WORLD-CLASS DESIGN AND CONSTRUCTION FROM SBA

Aberdeen exhibitor SBA offers world-class design and engineering of custom maritime vessels, from fishing vessels to tankers to luxury personal craft.

Meet directly with its team of designers and naval architects, ensuring that your every specification and capabilities requirement is met. With the design phase complete, SBA evaluates its international network of shipyards to select

the optimal site for your build, based on factors such as location, areas of specialisation and cost-effectiveness, delivering the best value possible for your project.

Onsite, experienced SBA site supervisors manage a team of skilled shipbuilders as they construct your customised vessel. Currently in build are 30m multi-purpose fishing vessels, and 15m and 19m crabbers for Canadian clients.

The versatile SBA-designed and -built Atlantic Titan.

