

tradex news

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www.tradexnews.co.uk
April 2020 • Issue 709



Quickgrass

Artificial grass has exploded onto the UK market and we would like you to join Quickgrass, selected as one of the Top Exhibitors at Grand Designs Live, on this exciting journey and help you make the correct informed choices when choosing fake grass. Our new generation 'Soft Touch' artificial grass has been developed with professionals in mind, who expect nothing less than high end, well-made products – and the Quickgrass brand is exactly this.

We have launched new products including 'Cambridge', a premium 38mm pile height with very dense bounce back yarn, and our new entry level 'Ludlow', a great premium 28mm all-rounder for those on a budget. There is also the 'Worcester' which has been very popular in 2019 and continues to be the top seller in 2020. Our Pets Ultra grass is designed for pet-friendly gardens, ideally for an active family garden with pets.

All these products have been developed to



enhance our premium collection – come and visit us and feel the amazing soft touch fake grass. Look forward to meeting you for DIY technical help or our full install service available nationwide.

Contact
T 01527 579841
www.quickgrass.co.uk

GBuilder: A project management software for housing

Digitalising the office and construction processes of customer-related tasks – material options, choices and configurations, change requests and defects or snagging.

GBuilder, selected as one of the Top Exhibitors at Homes UK, is the result of an idea by a construction company CEO, Harri Majala. He realised that there is a gap between project management, customer and the construction site that leads to wasted time, mistakes, delays, financial losses and unsatisfied customers. The idea was to develop a solution that digitalises the daily-tasks of each stakeholder and connects them,



enabling collaboration and real-time information sharing. That idea became a reality in 2014 when the software was launched into the Finnish market.

"GBuilder is designed to solve issues concerning customer management and the digitalisation of the customer journey in the construction sector," says Majala.

GBuilder is widely-used in its native country of Finland and the

company is rapidly growing with customers in seven countries, over 300 projects and over 20,000 homes on the platform. "We see great traction in the UK. We're digitalising archaic processes, replacing simpler softwares and seeing results in time savings, increased profits and satisfied customers," says Jarmo Ollila, Chief Sales Officer.

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Avia secures smart lock approval

Mighton has underlined the credentials of the Avia smart lock as the most secure product of its type on the market, thanks



to a combination of traditional mechanical hardware, recently approved by independent test house, Sold Secure, and market leading software that is designed to work with Apple's HomeKit security ecosystem, regarded as the most secure platform available. According to Mighton, Avia was designed from the offset to incorporate the very best levels of security for both its mechanical and electronic elements. It was the first smart lock to achieve the Government's Code of Practice for consumer Internet of Things (IoT) security, earning accreditation from the British Standards Institute (BSI) as a result, as well as recognition from the European Telecommunication Standards Institute (ETSI TS 103 645), the first globally applicable standard for consumer IoT security.

More recently, Avia was subjected to rigorous manual attack tests at Sold Secure's facilities in Rugby, where, thanks to its inherent strength it became the first smart lock to ever meet the criteria for SS301 Silver approval. As the world's first Apple HomeKit compatible smart lock to be developed for lever operated multipoint systems, Avia can be controlled via iPad, iPhone, Apple Watch, keypad and fob, and gives users access to a full audit trail that records all its activity.

T 01223 902455
www.mightonproducts.com

Repair and calibration



Products manufactured by Sherborne Sensors are highly precise, accurate and robust, and are found in very demanding applications. As part of any preventative maintenance program, sensors should be recalibrated on a regular basis. Our manufacturing facility is fully capable of confirming performance of field units to original manufacturer's specifications, providing a certificate of performance that is traceable to recognised international standards. In addition, Sherborne Sensors welcomes the opportunity to calibrate servo-based inclinometers/ accelerometers as well as load cells (depending investigation) from other manufacturers as well.

In addition to recalibration services, Sherborne Sensors offers our customers the option to repair units that are damaged in the field. As part of this process, prior to initiation of any work, Sherborne Sensors provides our customers with a detailed analysis of the unit's performance, the root cause for the unit's inability to meet factory performance specifications, and a firm fixed cost for the unit's repair. We will also advise our customers if a unit cannot be economically repaired, and instead requires replacement.

Calibration Capability

- ◆ **Inclination** – $\pm 90^\circ$ to within 5 seconds of arc
- ◆ **Acceleration** – Up to $\pm 20g$ to within 0.001g depending on range. Calibrations up to $\pm 1g$ are made using precision gravity references while measurements in excess of this are made using a precision centrifuge.
- ◆ **Force** – 10 grams to 300 tonnes

www.sherbornesensors.com

Monoline Linear Unit



RK Rose+Krieger has been manufacturing components for automation and machine building for over 40 years. Our extensive range of products in the fields of linear adjustment, profile technology, connecting and module technology are renowned and respected for their reliability and performance.

One of our most recent new products is the Monoline Linear Unit. Initially released in sizes 40, 80 and 120, the range will soon be extended to include size 60 and will therefore be available in sizes 40, 60, 80 and 120 – either with a timing-belt drive (Z) or without a drive as anti-vibration torque support (R).

The size 40 timing belt driven version can withstand loads of up to 1,100N, the size 60 up to 2,800N, the size 80 can up to 4,367N and the 120 version can withstand loads of up to 9,400N. All units can reach travel speeds of up to 10m/s, with permissible accelerations of up to 20ms².

T 01296 611660
rk@pmgb.co.uk
www.pmg.co.uk/rk



Allow us to introduce ourselves and welcome you to the Signzworld family. We are a Birmingham-based supplier specialising in sublimation printing materials, sign making and related machinery. In our 10 years of business we have provided companies of all sizes with the tools and support needed to achieve their business goals.

Our vast warehousing facilities house a huge range of Heat Presses, Vinyl Cutters, Laser

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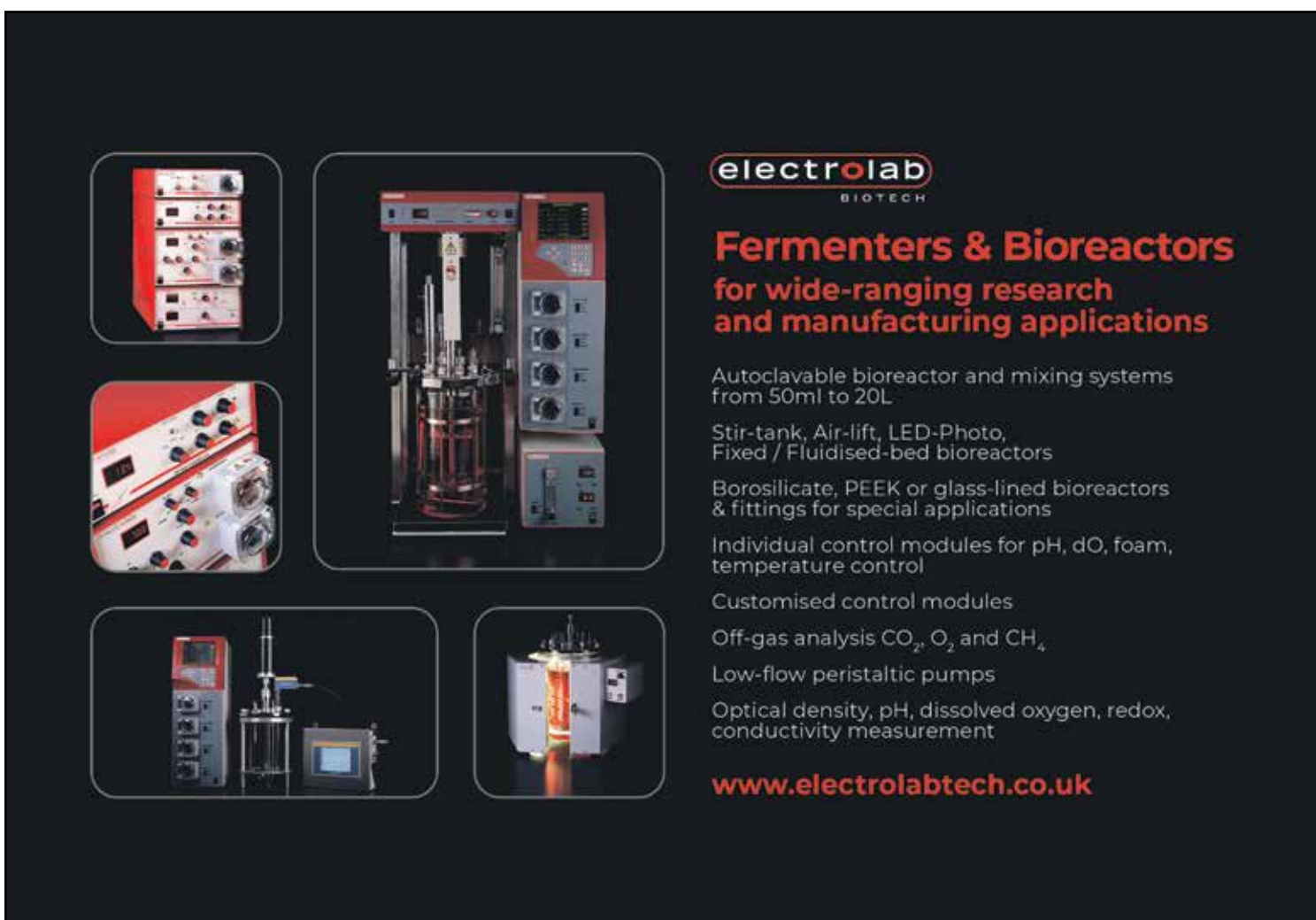
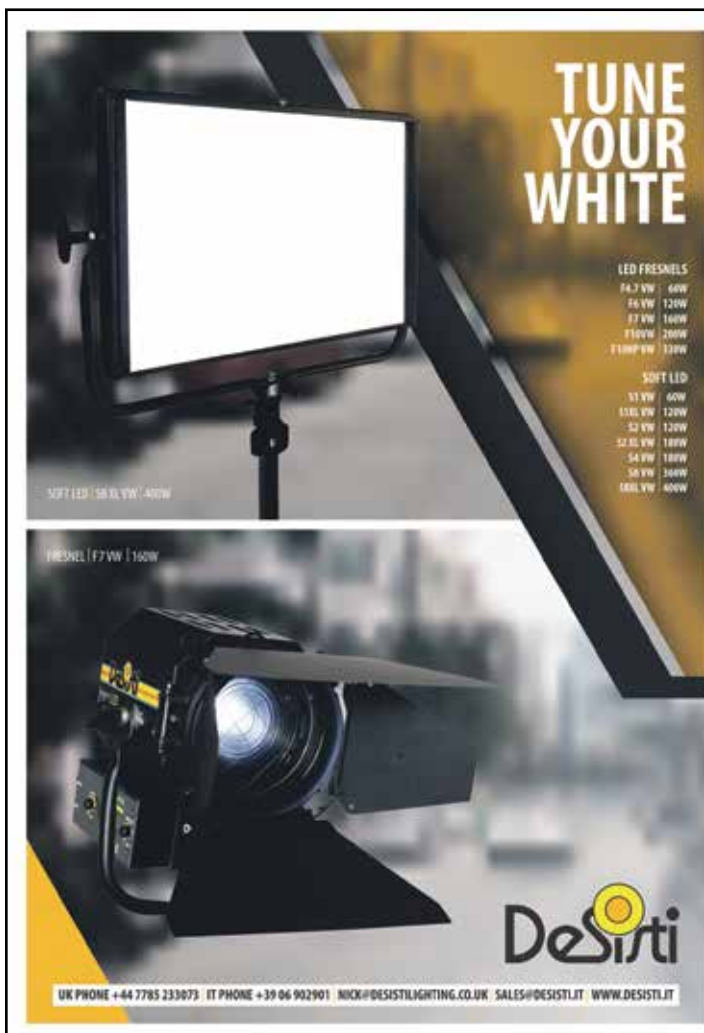
2019 has seen the Signzworld company receive a much needed makeover. Both online, through the inception of social media and video channels, but also with the renovation of our bricks and mortar store.

There's also a brand new website imminent, possibly even live at the time of this article going to print.

Our new digital home represents the largest sign of our ambition to improve and consequently enhance the experience of our customers. Our customers have spoken and we have listened.

We're determined to make this the number one place to visit within our industry for relevant insight and great value and for all customers, new and old. Together we work better.

T 0121 550 4909
support@ukcutter.co.uk



Plant expansion at BASF Antwerp: Digital plant documentation speeds up loop checks

Every time a process plant is newly built, modernised or expanded, its reliability has to be exhaustively tested before it can go into operation. Plant constructors or operators implement loop checks to ensure that all loops are functioning correctly, that the sensors and actuators assigned to them are correctly parameterised and that they are interacting as planned. Plants in the process industry often have several hundred loops that need to be tested by consistently following checklists. If several teams are working in shifts in order to speed up acceptance, it is almost impossible to keep an overview with paper checklists. In this situation, digital plant documentation is the remedy.

Anyone who has been involved in commissioning a plant in the process industry is familiar with the time-consuming procedure: checklists are generated (as far as the plant planning tool allows) for the loop checks which are one of the essential preliminaries. Then all loops have to be rigorously tested in the field. The results are noted on the checklist. At the end of the day, each employee returns a stack of checklists to the project manager. Depending on the size of the project, he accumulates files full of documents which he has to go through if he wants to get an overview of the present status of the project. If testing is being done in several shifts to speed things up, a proper handover from one shift to the next is basically not possible. If shift work is not used, it would be possible for the project manager to catch up on his overview after work – overnight, so to speak – and then prepare the test assignments for the next day. However, this is extremely laborious, and who wants to manage a project by working a night shift for weeks?

Everything is a great deal easier with the digital plant documentation tool LiveDOK NG by Rösberg. Many plant constructors and plant operators use the tool for documentation in the operational phase. It renders valuable services in commissioning, Factory Acceptance Tests, and of course loop checks: during checks, the tool enables data to be directly digitally recorded, meaning that the project manager has an overview of the test status in real time. This enables good planning and the effective deployment of employees, and has a determining influence on the time management of a project. "I assume that by using the software, the time for loop checks can be cut by as much as half, depending on the application concerned," says Helge Laubach, Account Manager Plant Solutions at Rösberg.

Digital checklists give an overview

How does the digital documentation tool support loop checks? With I&C-CAE planning tools like ProDOK, for instance, (see **Technology Text Box 1**) checklists can be generated for the stored loops. These are transferred to LiveDOK in PDF format. The project manager then distributes



Helge Laubach, Account Manager Plant Solutions at Rösberg, says, "Using the software can save up to half the time for loop checks, depending on the application concerned." (Copyright: Rösberg)



Loop checks in view: With digital plant documentation, project leaders always have an overview of the current testing status. (Copyright: Rösberg)

Technology Text Box 1: The I&C-CAE System ProDOK

Modern process plants can only be effectively operated if the data from the engineering phase are also available for operation, maintenance and modernisation. As-built plant reality has to reliably match the documentation at all times. Only if all data are consistent can costly new entries and the unnecessary use of engineering resources be avoided. This is exactly where the I&C-CAE system ProDOK comes in. It ensures an integrated planning process with unified rules. Because all the data are collected and exchanged within the same system, there is no more trouble with tiresome data transfer errors. Functions include basic and detail planning, functional planning, implementation planning and installation planning for new construction projects, plant alterations and extensions, as well as operational support, covering the whole life cycle of a plant. By its continuous, consistent documentation ProDOK ensures that the documentation really does reflect plant reality at all times. In combination with the real-time documentation system LiveDOK, it enables the complete documentation to be centrally administered and maintained, simply and inexpensively. The result is a significant improvement in quality and efficiency, plus substantial savings in terms of time and costs. Security of investment is ensured by wide acceptance of the system in the process industry and the use of state-of-the-art software technology.

their individual tasks to the employees who are carrying out the tests, usually via a tablet. When working through the tests they can tick off the individual steps on the checklist, and also stamp the document appropriately. And with LiveDOK a differentiated status like e.g. 'installed', 'tested' or 'released' can be assigned individually to documents, depending on the project in hand. This enables people working on the project to see the status without having to open the document. When the installation of a plant component is completed, the employee assigns, e.g. the status 'installed' to the document. Ideally, the employee carrying out the test is connected to the company network during testing.

His changes are then not only stored locally on his operating station but also centrally on the LiveDOK server. This gives all employees access to the current data of the plant documentation. For the project manager this means, for instance, that he can generate at the touch of a button an overview of which plant components already have the status 'installed'. Thus rather than having to wait until the end of the day's testing and then work through countless lists, the project manager receives the exact up-to-the-minute status while the tests are running, and can plan accordingly. If the tests are taking longer than anticipated, more manpower can be brought in at an early stage. This makes sense particularly if plant modifications are planned to be carried out during a strictly-defined time window – e.g. a scheduled plant downtime.

Use Case BASF Antwerp

At BASF Antwerp, two new plant sections for the production of aniline and nitrobenzene were



LiveDOK Web can be used on a wide range of mobile devices because it is independent of any specific operating system. This means that during testing, changes can be entered in the digital documentation directly on-the-spot. (Copyright: Rösberg)

added at the end of 2018. When the extension work was completed, around 300 loops had to be tested in the field. For this BASF used the digital documentation tool LiveDOK. To avoid the use of paper altogether, the testers worked with tablets. This enabled them to enter all the necessary information directly on-site. Once a loop had been successfully checked, the relevant checklist received the appropriate status. If changes had to be made to individual I&C devices, these could be directly noted using the redlining palette of the documentation tool. These checklists were then returned to the planning office where they were checked, the noted changes taken over in the planning tool and a new documentation without redlining generated. This procedure has already proved very advantageous in practical use, because it simplifies the work, gives better results and also substantially reduces the time needed for the checks.

Independent of the operating system

Because there are frequently Ex-zones in the chemical industry, Ex-approved tablets were required for this application. In situations where more Ex-proof tablets are required at peak times than in everyday business, it may make sense to hire additional Ex-safe tablets. For cases like this, in addition to their software tools and project management know-how, the automation experts from Rösberg offer suitable hardware for hire (see **Technology Text Box 2**).

Technology Text Box 2: Hardware: Hiring instead of buying

For the loop checks at BASF Antwerp, the chemical company hired the complete test environment, comprising laptops, Ex zone tablets, LiveDOK licenses and much more, from the automation experts. Users who hesitate to invest in buying the hardware and software for similar applications, because they may only need to use them once, can benefit from this complete care-free package. All components are hired out on a monthly basis.

In past years the choice of Ex-safe tablets on the market was relatively small, but in the meantime numerous variants using different operating systems are available. Therefore the automation experts have now created LiveDOK Web, a solution that is operating system-independent and web-based, and can be used on a wide range of different mobile devices. Users do not need to install any software in order to use the web application; they simply need an internet browser on the relevant operating device. The software solution is designed for touch operation, and works independently of the operating system, so it can be used equally well with Windows, Android or iOS devices. The user interface is responsive, ie. it adapts flexibly to different display sizes.

Making life easier for plant constructors, too

A digital plant documentation system that can be used directly on-site on mobile end devices does not only simplify plant operation. A solution of this kind can also be very useful at the commissioning stage. It makes plant constructors' work easier, and enables them to deliver the as-built documentation to the plant operator promptly following commissioning. In many cases this is not just "nice to have" – it is an essential requirement. Many contracts specify that a project will only be regarded as completed, and will be only be paid for, once the current documentation has been handed over. With digital plant documentation tools, changes can already be made to the original documentation during the test phase, and the as-built documentation can be delivered directly after completion of the loop tests.

T +49 721 95018-0
info.ka@roesberg.com
www.roesberg.com
www.LiveDOK.com



Dipl.-Ing. (BA) Martin Dubovy, Head of Plant Solutions at Rösberg Engineering GmbH

Industry reacts to 'busiest PLASA Show in years'

This year's PLASA Show was the busiest in years, welcoming a 6% increase in overall attendance, with visitors hailing from over 63 countries. PLASA has also announced that the show will move to London Olympia's larger 'Grand Hall' for 2020 reflecting the show's upward trajectory and allowing a greater number of stands and show features, all on one level.

The show saw an array of new brands & features, including Stage to Studio – an opportunity to watch legendary engineers Simon Todkill & Jamie McEvoy's mixing sessions with live musicians – an immersive AV installation on living with bipolar called 'Blackout', and double the amount of live audio demonstrations including three dedicated 'audio lounges' for L-Acoustics, Sound Technology and RCF.

Robe's Back to the Future inspired stand showcased their PLASA



Award-winning Esprite fixture with regular performances complete with rain, fire, dancers and an authentic DeLorean car. "It has been the most ambitious production we've done to date," says design duo, Nathan Wan and Andy Webb. "During the show we smash through over 550 cues in eight minutes. It's been an absolute delight to see it all come together."

PLASA Show 2020 will take place from 6-8 September at Olympia London. This is our pick of the best exhibitors from last year's show, listed here in alphabetical order: Harlequin & Outsourced Audio Visual Services & Solutions. Further details can be found on this page.

www.plasashow.com

Harlequin's event and display floors

Harlequin is the world leader in advanced technology floors for performing arts, theatres, events and productions. Harlequin's event and display floors are the industry choice for TV and film production, concerts and tours, product launches, fashion shows, window displays and exhibitions. Harlequin's experience and reputation are founded on the design, manufacture and supply of a range of high quality portable and permanent sprung and vinyl floors.

Known and trusted by the likes of the BBC, ITV, the V&A, MTV, Pinewood Studios, Prada and Chloe, and an extensive list of event producers for festivals, product launches and touring concerts, Harlequin has been supplying the events industry with the best quality flooring for over 40 years, and the majority of our business is based on repeat orders from satisfied clients. Harlequin is the flooring choice for high profile Saturday night TV shows including The X Factor and Britain's Got Talent.

Harlequin offers a wide variety of products including: Harlequin Hi-Shine,



a high gloss vinyl dance floor that gives an almost mirror effect; Harlequin Reversible or Harlequin Reversible Pro, versatile, fully reversible performance floors available in a wide variety of colours, and a bespoke printing service which means you can have any design, logo or pattern printed directly onto a number of vinyl floors from the Harlequin range.

As a global manufacturer, Harlequin can provide flooring across the world, via a dedicated team, fast delivery and bespoke service. Forty years after its creation, Harlequin remains a global leader in its field with offices in Europe, the Americas and Asia Pacific.

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www.harlequinfloors.com

Outsourced Audio Visual Services & Solutions

Outsourced Audio Visual Services & Solutions was created by Sonic Syndicate Ltd in January 2020 as we saw a need for skilled Audio Visual service providers for the industry.



Getting reliable and decent help on site and off site has been a long standing problem for many AV companies and integrators; the right skills and dedicated staff were simply just not available... until now!

Outsourced Audio Visual Services & Solutions was created by Sonic Syndicate Ltd in 2019 as we saw a need for skilled Audio Visual service providers for the industry. Simply put we have what you need! Great engineers who have worked in the industry & know what is required to do the job, be it rack building, first

fixing or installing – we have your back.

We also supply racks, power management and cabling at trade to the industry. This gives us the power to supply the goods as well as our amazing services all under one roof.

"We are looking at a massive growth in 2020 as we feel we are offering a truly unique service to the industry."
– Enrico Rausa, MD, Sonic Syndicate Ltd

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South West Business Expo Review Top 10

South West Business Expo 2019 exceeds all expectations

Nearly 4,000 visitors attended the 8th annual South West Business Expo, aimed at bringing the South West's best business minds together. The show, which was held at Westpoint Exhibition Centre in Exeter, attracted more than 270 exhibitors with 25% of them from outside the South West and 46% of them with 11 to 100 employees.

All attendees were able to take part in 26 interactive masterclasses which included former BBCTV Dragons' Den 'Dragon', Rachel Elnaugh, the British entrepreneur

who created the £multi-million market leading 'Red Letter Days' experience brand, as well as networking with like-minded people to grow their connections and their business too.

Also speaking at the event was Lucy Matthews, Founder of Marvellous PR and author of the Amazon #1 Best Seller on Public Relations 'A Marvellous Reputation'. Lucy Matthews said, "The Expo couldn't have gone better for us! After my talk, we delivered 22 one-to-one speed-PR sessions which have resulted in five people

wanting us to work for them, two bookings for me to be a speaker at other events, some book sales and a good number of businesses wishing to be a part of our PR mentoring package. We will be back next year!"

South West Business Expo will return to Exeter's Westpoint Arena on 4 November 2020. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Access Electric Bikes, IMSM, New Dawn UK Cyber & SWIG Finance. Further details can be found on this page.



www.southwestbusinessexpo.co.uk

Cycle to Work Schemes need not impact company cash flow

Raising the £1,000 finance limit on Cycle to Work Schemes has made it much more viable for employees to Cycle to Work on an electric bike, while 3rd party finance schemes enable employers to provide electric bikes with no adverse cash flow for their company.

While there are well advertised financial advantages to an employee who saves Income Tax and National Insurance Contributions on the monthly purchase instalments over at least 12 months, it is less well advertised that the employer saves the 13.8% Employers NI. For many employers, financing a fleet



or even a few electric bikes is a burden on the cash flow, so Green Cycle Commute can set up a Third

Party Finance Scheme to pay for the bikes and the interest charge of 8% is more than covered by the 13.8% employer's NI savings. Nor is it necessary for an employer to join the scheme, using 'Instant GCI' from Green Cycle Commute, enables an employee to generate a Pro Forma for his own e-bike.

So the employer just sets up the salary sacrifice scheme for the employee and must remember to cancel it at the termination of the scheme!

T 01404 41692
www.axcess-electric-bikes.co.uk

New Dawn UK Cyber

New Dawn UK Cyber, a division of New Dawn Risk Group Limited, is focused on providing cyber insurance solutions to UK companies. Our deep expertise and knowledge of the cyber risk landscape, combined with a commitment to keeping on top of the current issues faced by UK companies, enables us to help mitigate the cyber risks that they face.

Cyber insurance is designed to complement cyber security already in place by providing immediate assistance following an incident (IT forensics, legal costs, credit monitoring, public relations) as well as indemnity for the longer term financial implications. Not only will it reduce the impact an incident has on a company but it also demonstrates a duty of care to customers and the regulators.

New Dawn are on hand to provide expert advice and placement strategies to ensure a seamless and hassle free insurance journey. A one size fits all approach is not adequate and so we will work with your internal



teams to make sure that the insurance you purchase appropriately covers the cyber risks you face individually as a company.

Please get in contact if you would like to learn more.

Contact: Tom Malcolm, Head of UK Cyber
T +44 (0)20 3668 2821
cyber@newdawnrisk.com
www.newdawncyber.co.uk

SWIG Finance: Supporting the South West's SMEs

SWIG Finance is the region's leading enterprise lending Community Development Financial Institution (CDFI). Being a CDFI means we are passionate about bringing social and economic benefits to people, places and the business community by delivering responsible and affordable lending to SMEs and Entrepreneurs.

We are committed to the following principles:

- ◆ CDFIs lend to businesses turned down or not served by mainstream providers, including banks
- ◆ CDFIs protect jobs and strengthen communities
- ◆ CDFIs are tried, tested and trusted
- ◆ We embrace the Coronavirus Business Interruption Loan Scheme and are working in conjunction with the government and the British Business Bank to support small businesses
- ◆ CDFIs are able to lend to underserved businesses because they are deeply rooted in their local communities and can take a different view to mainstream lenders
- ◆ We support our customers by acting with forbearance and flexibility so they can get back to business



About SWIG Finance

SWIG Finance is wholly-owned by South West Investment Group Ltd, a company limited by guarantee. All profits are reinvested in supporting the small businesses that serve their communities across the South West region.

For further information, visit: www.swigfinance.co.uk

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Automotive Data Logging Solutions Company of the Month

Leaders in Vehicle Data Logging Solutions

In this issue of Sustainability Today we have chosen Influx Technology as our Automotive Data Logging Solutions Company of the Month.

Influx Technology is a leading global supplier of vehicle data logging equipment. First established in 1999 by Lance Keen (CEO) and Fiona Keen (Company Secretary), Influx Technology provides its customers with data from vehicles for fleet management and monitoring, durability testing, powertrain engineering and component engineering.

"With over 15 years of experience in the field of automotive engineering, our products uniquely offer clients a solution to acquire data from vehicles from a range of sources. We support vehicle networks, automotive protocols, instrumentation and IMU sensors (GNSS, 3D Gyro and 3D accelerometer)," said Lance Keen, CEO.

With a growing global presence,



Influx Technology maintains facilities in Bedford, Millbrook Proving Ground and an admin office in Potton, as well as offices in the UK, Bulgaria, China and India. "All our colleagues worldwide operate to the highest standards of ethics and we support our global customers with pride," Deborah Hipgrave, UK Manager, stated.

Influx Technology is a global engineering team which provides a range of products and innovative engineering solutions, specialising in the Rebel data loggers and software tools designed for automotive engineers developing powertrain systems, EV engineering and fleet managers. "Our products range from the lower end flight recorders that acquire CAN network data to the more complex vehicle FlexRay networks. Our

products are helping automotive engineers to develop the connected green vehicles of the future," Lance said.

A feat within the company's products is its new ReXgen 2 range of CAN data loggers, a cost-effective powerful fleet data logger range. "The new ReXgen 2 range will bring our vast experience into a new market sector, the lower cost but high performance will make the ReXgen 2 an ideal choice for fleet management systems." Lance continued, "This range of data loggers will support a range of vehicle networks CAN 2.0, CAN FD and LIN. In addition, the ReXgen 2 has a highly accurate GNSS module with dead reckoning. The ReXgen 2 can provide position tracking in tunnels."

In terms of new developments for the company, Influx Technology has recently opened its new sales and support office in Bangalore, India. The office is a great asset for the company, enabling Influx Technology to expand its market presence in India and allowing it to provide India with the benefit of direct local support and engineering.



A few notable appearances for Influx Technology include the Cenex trade show held at Millbrook Proving Ground, which is the company's main show in the UK, as well as the Automotive Testing Expo Show both in India and China. "It is a good



opportunity to catch up with existing customers and we always have enquiries from new potential customers on our products and services," Deborah said.

Speaking of the company's future plans, Deborah told us that, "We plan to relocate within Millbrook Proving Ground. The plan is to have one main office where we can all work together for a tighter, more efficient working relationship. The new office will ensure that all our dedicated team in the UK can build on our existing customer relationships."

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ROS RENEWABLE OIL SERVICES ONSHORE AND OFFSHORE

ROS are the UK's largest supplier of oil products and oil exchange services to the onshore and offshore wind turbine industry across the UK and Ireland.

We have recently expanded our service offering to cover the Industrial and Marine sectors operating our specialised trucks and equipment to carry out gearbox, hydraulic, glycol coolant and transformer oil exchanges.

Supply of consumable products: oils, grease, filters, cleaning rags, oil absorbent pads, disposable gloves, etc. making us your one stop shop for all your industrial servicing needs.

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Peel L&P



Peel L&P strives towards clean growth as buildings become first in UK to achieve net zero carbon status

At Peel L&P, we are taking action to mitigate climate change and support a shift to clean growth.

11 of our properties are the first in the UK to demonstrate net zero carbon status based on their operational carbon emissions, action taken to reduce those emissions and their renewable energy use. This is verified against the UK Green Building Council's 2019 definition and we will look to increase the number of net zero carbon buildings in our portfolio.

Peel L&P has a long track record of leadership in sustainability as the first developer to achieve the BREEAM communities standard at Media City UK in 2011 and the first major property company to achieve the energy management standard ISO 50001 in 2015.

Our work to reduce carbon emissions is part of a five year sustainability plan which supports The United Nations' Sustainable Development Goals to help create a fair and sustainable planet by 2030.

Peel L&P is also supporting clean growth through low carbon energy projects such as Mersey Heat in Liverpool and Protos, its strategic resource recovery and energy hub in Cheshire.

More at: www.peellandp.co.uk/responsibility

Automation, innovation and emerging technologies

With the rise of connected and automated vehicles, as well as the UK's plans for a zero emissions future, the Cenex-LCV2019 and Cenex-Connected Automated Mobility (CAM2019) events welcomed a record number of just over 4,700 delegates to Millbrook. This was a 9% increase on 2018 numbers, which were themselves a record. Held at Millbrook, Bedfordshire between 4-5 September 2019, the co-located events were opened by Rt Hon George Freeman, Minister of State for Transport.

A new safety regime for self-driving vehicles called CAV Pass was announced by Rt Hon George Freeman, Minister of State for Transport. The new system aims to prevent any defects in driverless cars and provide protection from cyber-attacks.

Millbrook officially opened its Autonomous Village, a new centre for testing connected and autonomous vehicles (CAVs). The Autonomous Village comprises six purpose-built workshops designed to support mechanical, integration and software development for self-driving vehicles, from passenger cars to buses. Parkopedia showcased autonomous valet parking. The demonstration showed Autoware-based software on a Streetdone controlling a vehicle by following waypoints.

The Advanced Propulsion Centre unveiled a new production low carbon biomethane farming vehicle. The



bio-gas tractor will help reduce emissions in agriculture. The Niche Vehicle Network announced the winners of its R&D competition. The fourteen winners will share £2.5 million in grant funding to progress their R&D projects.

The two shows return to Millbrook, Bedfordshire, this year from 9-10 September 2020. This is our second pick of the best exhibitors from last year's show, listed here in alphabetical order: LAUDA Technology Ltd, Mersen, Protean Electric & Siemens Mobility. Further details can be found on this page.

www.cenex-lcv.co.uk
www.cenex-cam.co.uk

Mersen EV power management solutions

Mersen offers cooling and bus bar solutions, capacitors as well as regular and hybrid fuses – a perfect combination to integrate all products in perfect harmony in order to offer to the customer a full package, pre-assembled, specifically designed, and perfectly optimised together.

The Mersen offer comprises five dedicated lines of products that serve the EV market: DC-rated fuses for battery and auxiliary circuit protection; DC pyro-based hybrid fuses for advanced battery overcurrent protection; laminated bus bar with monitoring features for battery and inverter connection; battery water cooling solutions; and capacitors (film and electrolytic).

Mersen e-mobility fuse product programme covers DC fuses, up to 1,000VDC, the EVpack-fuse (battery pack fuse) and M-fuse



(battery module fuse) that are ultra-fast-acting DC fuses designed to address specific needs in EV/HEV and battery storage systems. With complete protection from 100VDC to 1,000VDC, and up to 600A with minimum breaking capacity (MBC) of less than 3kA for perfect matching with DC contactors, these fuse families have been fully tested in DC conditions to guarantee fast and reliable protection under large

fault currents.

Mersen's Xp Hybrid pyro-fuse is part of the Xp series, which is based on a pyrotechnic heart associated with a fuse. It offers very fast operating times, extremely low watt losses, and high cycling performances, up to 1,000VDC. Additionally it has the capability of being self-triggered through its patented technology, which means it does not need any external power in order to operate.

MERSEN

T +44 (0)1273 425119
www.mersen.co.uk
<http://ep.mersen.com>

Protean Electric

A paradigm shift is underway as the automotive industry is subjected to unprecedented legislative, technological and societal change. Disruptive technology is already breaking down barriers to the roll-out of electrified vehicles and there are opportunities for new approaches to mobility and therefore design, packaging, and powertrain configuration.

For a range of applications, the internal combustion engine will no longer be the primary powertrain as manufacturers and operators require solutions that meet stringent emissions regulations, differentiate them in an increasingly crowded market and provide a host of benefits for their customers.



Protean Electric is an automotive technology innovator and world-leading developer of ProteanDrive in-wheel motors (IWMs). ProteanDrive IWM technology integrates the inverter with the motor assembly to provide a compact electric drive system. The patented

technology exhibits a simple, highly integrated yet flexible design that delivers power with maximum efficiency. Protean's IWMs are ready for volume application in passenger vehicles, light commercial vehicles, modern last-mile transportation solutions and autonomous mobility pods. High-volume, low cost manufacture is enabled through a global network of licensees.

Protean Electric is a subsidiary of National Electric Vehicle Sweden (NEVS) and part of Evergrande Health's 'New Energy Vehicle' Group.

For more information, please visit:
www.proteanelectric.com

Siemens Mobility

As a global market leader, Siemens Mobility understands how towns and cities can best use intelligent traffic system (ITS) technologies to help deliver our sustainability, air quality and climate change targets.

Our product portfolio monitors and manages traffic, influences healthier transport choices, reduces congestion and cuts emissions. A sustainable and efficient transport network leads to a cleaner, healthier and more attractive environment.

Our ITS products are used across the UK and range from urban traffic control and management systems, congestion charging, speed enforcement and clean



air zone solutions, to electric vehicle (EV) charging infrastructure and technology for connected autonomous vehicles (CAVs).

With systems featuring in many air quality improvement schemes, we are designing

and delivering Clean Air Zones for cities across the UK. In London, our technology is used in a range of initiatives to improve the city's air quality, with our systems at the heart of the Congestion Charge and recently introduced Ultra Low Emissions Zones. We are also supporting the rapid shift to electric cabs through the provision of high power EV charging infrastructure.

And looking to the future, rapidly evolving developments in connected mobility technology offer huge potential to improve safety, reduce congestion and optimise traffic flow further.

Contact
www.siemens.com/mobility

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LAUDA Technology Ltd

LAUDA Technology Ltd provides class-leading expertise for applications requiring precise heating and cooling solutions, ranging from -150°C to +550°C. Applicable to multiple product stages, from research and design through to pilot plant, full production lines and quality control, LAUDA Technology Ltd focuses particularly on automotive, aerospace, chemical, biotechnology, pharmaceutical, medical, digital printing and food and beverage application solutions, among others. Highly robust, feature-rich, industry-compliant solutions set us apart, while a reassuringly low total cost of ownership throughout the equipment life provides for a tangible return on investment.



With a 64 year history, and a dedication to innovation and portfolio expansion, recent new products include laboratory freezers, shakers, incubators, and water stills building on the

already highly-capable product portfolio of process circulators, circulation chillers, water baths, tensiometers, viscometers, and contact angle measurement, providing heating, cooling and measurement solutions throughout the product lifecycle stages.

Innovative new product features include remote access via a smartphone or tablet, enhanced cooling capabilities and energy savings of up to 50% compared to similar products, additionally the new water chiller range is fully compliant with the new Ecodesign directive.

T +44 (0)1780 243118
info@lauda-technology.co.uk
www.lauda-technology.co.uk

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*FAHRENHEIT, °CELSIUS, °LAUDA.

New cutting technology solves drain blockages

Drainage engineers from Lanes Group plc have used new pipe cleaning technology to solve persistent drain blockage problems at a nuclear power station. They used two machines – a new Picote mini cleaner and an electro-mechanical cutter – to clear drains in one of the two reactor halls at Heysham power station in Lancashire.

Their success means station workers can be confident that the drains flow freely so they do not have to use contingency measures to take wastewater to a radioactive effluent treatment plant.

The stainless steel 75mm-diameter drains were installed when the power station was built in the 1970s. They are encased in concrete which has made them difficult to keep clean. They are also located within the radiologically controlled area (RCA) of the Heysham 1 reactor hall. This meant the two Lanes operatives had to wear specialist protective clothing and follow strict radiation protection procedures.

The drains, designated as 'active' because they could be contaminated with nuclear radiation, were cleaned in two stages.

First, a Spartan electro-mechanical cutter was used to break through blockage material. The device has a flexible cable with a rotating steel cutting head on the end for scouring the inside of pipes.

Then, the Picote mini cleaner was used to break up the blockage debris and push it into waste sumps, leaving the pipes clear. The device can be fitted with different rotating heads. In this case a flail was used.

T 0800 525 488
www.lanesfordrains.co.uk



Contamination Expo Series Review Top 10

Discover the shows that make up the series



The Contamination Expo Series, held last year at Birmingham's NEC from 11-12 September 2019, is a major European exhibition committed to providing the latest knowledge, products, and innovations to professionals working in all aspects of contamination, from spillage emergencies to air and water pollution prevention.

Across two days, the most ambitious and progressive authorities, and innovators from a variety of contamination sectors, gathered to present the latest equipment, products, services, and strategies in managing, preventing, and recovering from contamination incidents. The exhibition was constructed to provide a platform for the most cutting edge solutions and technology from around the world, while also delivering a leading educational programme from prominent experts in each field through an exclusive schedule of seminars.

The series encompasses seven different co-located events: the Land Remediation Expo, the Spill Response Expo, the Clean Air Technology Expo, the Hazardous Materials Expo, the Nuclear Decommissioning and Remediation Expo, the Geotechnical & Geoenvironmental Expo, and the Waste Water Expo.

The Contamination Expo Series returns to Birmingham's NEC this year from 16-17 September 2020. This is our second pick of the best exhibitors from last year's show, listed here in alphabetical order: The Fiscal Incentives Group Ltd. Further details can be found on this page.

www.contaminationexpo.com

The Fiscal Incentives Group Ltd

Supporting Brownfield Development with Tax Incentives, the introduction of Planning in Principle for registered brownfield sites and the advance of



Local Authority brownfield registers is good news for the sector. However, the reality is that, despite the introduction of these measures, many brownfield sites, with planning, remain undeveloped due to the costs and risks associated with overcoming the many technical challenges often associated with these sites.

The Government help support the development process by subsidising remediation costs through tax incentives. At a headline level a developer or housebuilder can recover c.10% of their remediation costs through a reduction in their corporation tax payments whereas a company developing to hold the land as an investment can recover closer to 30%. These are generous subsidies and yet remain significantly underutilised due to a combination of misconception and lack of awareness.

The Fiscal Incentives Group supports many of the UK's national housebuilders, and developers of complex sites, to access these tax incentives and to streamline the process for making claims on an annual basis. Our team has prepared claims in excess of £3bn since the relief's introduction in 2001, contributing over £400m of cash back into our clients' businesses.

Contact: Ben de Waal, Managing Director (pictured)
T 0121 455 5090
M 07980 234759
Ben.dewaal@tfigroup.co.uk
www.tfigroup.co.uk



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Powering the energy system of the future

Solar & Storage Live, held at Birmingham's NEC from 17-19 September 2019, is the UK's most forward-thinking, challenging and exciting renewable energy show. The event celebrates the technologies at the forefront of the transition to a greener, smarter, more decentralised energy system.

The exhibition is the UK's largest renewable energy marketplace, hosting over 150 exhibitors from across the globe, generating solutions to help power the energy transition. This is where key stakeholders within the energy value chain

are brought together with the innovators and disruptors to showcase their technology and service solutions needed to enable change at this critical time.

Old supply and demand models of power have already undergone a fundamental change due to technological advancement. In 2018, solar contributed to 31% of global generated power and will only increase along with co-located technologies.

However, the electricity produced by renewables

is not always completely dependable, especially solar being largely dependent on the weather. This is where storage comes in – stabilising the fluctuations in supply and demand.

Solar & Storage Live will return to Birmingham's NEC from 15-17 September 2020.

This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Cambridge, Erova Energy, Halse Solar Limited, Midsummer, SRS Works Ltd & Utiligroup. Further details can be found on this page.



www.terrapinn.com/exhibition/solar-storage-live

Cambridge: Flexible hedging

With increased levels of economic and political uncertainty, foreign currency markets can be volatile and unpredictable. For solar importers and exporters with foreign currency exposure, planning and forecasting can therefore be a challenge.

Foreign currency hedging is one way a business can protect itself from fluctuating currency rates, providing you with peace-of-mind. No matter what happens, you are protecting your profit margins and providing your business with the certainty it needs.

When it comes to considering this area of finance, it can be difficult to develop a FX risk-management strategy without looking at multiple ideas.

Cambridge has the capabilities to provide a range of Flexible Hedging Contracts that can allow for out-performance of the current inter-bank market, can provide potential rebates should the market move in your favour, and even the potential for both.

If you are currently protecting, or are looking



to protect your business from currency volatility and the impact it can have on your bottom line, feel free to reach out via the contacts below for a free consultation on how we can potentially add value to your current arrangements.

James Campbell
jcampbell@cambridgefx.co.uk

Jake Murray
jmurray@cambridgefx.co.uk

Erova Energy

Erova Energy was established in 2015 and quickly became one of the leading short-term power traders in Europe, operating across the UK, Ireland, Germany, France and the Netherlands. An investment from the A-rated Japanese conglomerate, Mitsui & Co, followed in 2018.

Having created a bespoke trading platform with 24/7/365 operation capabilities and trading across the full energy spectrum (power, gas and certificates), Erova is able to provide generators with a range of trading services, from traditional PPAs through to flexible route-to-market trading arrangements.

For any independent generator or supplier, Erova's virtual trading desk removes the risk, complexity and collateral required to directly



access the market.

<https://erovaenergy.com>

Top 10 Exhibitor at Solar & Storage Live

Midsummer celebrates 10 years as a wholesaler of renewables this year.

With a background in off-grid solar and the installation of domestic and commercial PV, Midsummer has since focused on distribution to become one of the largest wholesalers of solar PV, battery storage and EV chargers in the UK.

Now with a team of over 30, and a new Dublin-based operation launched in 2019, Midsummer has been going from strength to strength.

This is thanks to a focus on customer service and technical knowledge. Having been on the tools, the Midsummer team knows that accurate information and reliable service are crucial.

With several full-time developers, Midsummer is also unusually techy for a distribution company. The web-based PV design software www.easy-pv.co.uk is developed by Midsummer, and fully integrates with its online ordering platform.



In-house tech also helps streamline operations – along with some large-scale purchasing via well-chosen suppliers, this allows Midsummer to offer competitive trade prices to installers PV, storage & EV chargers on a wide range of products.

Look out for Midsummer at Solar and Storage Live 2020. Register for trade access at: www.midsummerwholesale.co.uk or try out the software at: www.easy-pv.co.uk

Getting in touch:
T 01223 851535
trade@midsummerenergy.co.uk
Or drop in to visit in Cambridge or Dublin

SRS Works Ltd

SRS Works Ltd has been established for 6 years, initially focusing on the Renewable Energy and FM Support sectors. SRS Works began in earnest at Heathrow, establishing an office and warehouse on the perimeter and grew a team of skilled electrical engineers headed up by John, our Airports Director.

As this site flourished, we had more enquiries about Solar PV and realised that Renewable Energy and Sustainability were not just buzz words but sectors we needed to pursue. SRS Works has now established a dedicated Solar PV and Battery storage team in Retford.

From our Retford office and warehouse, we provide solutions, quotations, designs, project management, distribution and installations – basically anything involving renewable energy can be supported and provided from our Retford Office.



Our dedicated, inspired, professional, skilled experts will provide you with a bespoke solution to suit your requirements. Please contact us for further information.

T 01189 739706
info@srsworks.co.uk
www.srsworks.co.uk

Halse Solar Limited

Halse Solar Limited is the UK and Ireland importer for Sunbrush, a German built Solar Panel Cleaner. The first Sunbrush was built in 2008, and there are now around 400 operating worldwide across 40 different countries. The Sunbrush is primarily a tractor mounted cleaner with high output compared to hand cleaning methods. It has a built in float system which keeps a constant yet limited pressure on the panels. This enables a thorough clean across the panel array, whilst ensuring there is no damage.

Halse partnered with Sunbrush in 2018. The UK has an established solar cleaning industry which almost exclusively uses Sunbrush machines. Halse Solar provides sales, spare parts and service from its farm machinery dealership, Halse South West, which is based just outside Exeter, Devon. With over 20 mechanics and large supply of spare parts in stock, it is well placed



to respond quickly to any emergency. Halse has partnered with Moorend, importers of the Norcar, and Multihog, who can both supply specialist carrier vehicles.

Contact: Edward Halse, Sales Manager
T 01404 519090
ed@halse.co.uk
www.halsesolar.co.uk

Utiligroup leads the transition to smarter energy and a sustainable business

At Utiligroup our mission is to make energy smarter for everyone. As energy competition evolves, new suppliers have increased their market share to over 30%. We facilitated the entry of over 60 suppliers and meter agents for residential and business customers through our expertise and software value. Effective competition provides a basis for the next shift towards smarter, flexible energy, starting with smart meters where over seventy companies use our software.

As customers start to adopt their own microgeneration, storage and electric vehicles, it opens up the potential of smarter, personalised tariffs & reward for flexibility in energy use. We are engaging with those pioneering the next basis of energy as it converges with low carbon

mobility about their new service platforms.

Utiligroup joined the Low Carbon Vehicle Partnership and various electric vehicle groups. We are committed to reducing our carbon emissions and improving our sustainability. In delivering this, we are proud to be one of the first Lancashire businesses to install on-site EV charging facilities and our energy is from 100% renewable energy sources. We also moved away from outdated giveaway items and now provide sustainable wildflower packs to help support the bee population. Working together, let's make energy smarter and more sustainable for everyone.

www.utiligroup.com
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nigel@bamfordwaterblade.com
www.bamfordwaterblade.com
https://youtu.be/EZyJ9ZcVRi8







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For more information visit our website: www.sewerage.org
or call Val Gibbens on 020 8330 0123

Spiral or corrugated tube heat exchangers – which is best for wastewater treatment?

Spiral heat exchangers have become synonymous with the treatment of slurries and wastewater, materials which have a high fouling risk, are viscous, or which contain fibres and solid materials. However, in many situations the performance of a corrugated tube heat exchanger is equal to or better than that of a spiral design. Not only that, but corrugated tube designs provide a number of additional advantages in terms of day-to-day operation and maintenance.

While some of the benefits claimed for SHEs hold true when they are compared to smooth tubular heat exchangers, the benefits diminish when compared to corrugated tubes of the type used by HRS Heat Exchangers, in the DTI Series.

Unlike SHEs, the tubes can easily be removed for inspection, cleaning and maintenance



The HRS DTI Series has a proven record with difficult materials such as sludge and digestate



The HRS DTI Series of corrugated tube-in-tube heat exchangers is ideal for sludge applications

and a variety of flange connections are available. The unit is also made in easy-to-replace sections. Should the heat exchanger suffer internal damage, the failed section can be easily bypassed by moving the interconnecting bends; a replacement can be manufactured and fitted when it is ready. In contrast, if a spiral is damaged, the complete heat exchanger must be removed to a workshop where many layers have to be cut out to access the point of failure. This is then re-welded and all the cut away sections must be re-welded into place. The cost is significant and downtime is many weeks.

In many situations, we believe that a corrugated tube heat exchanger, like the HRS DTI Series, is the best solution for challenging materials such as sludge. However, in the most extreme cases with a very high fouling

risk, it will be necessary to use a scraped-surface heat exchanger such as either the HRS rotating R Series or the patented reciprocating Unicus Series.

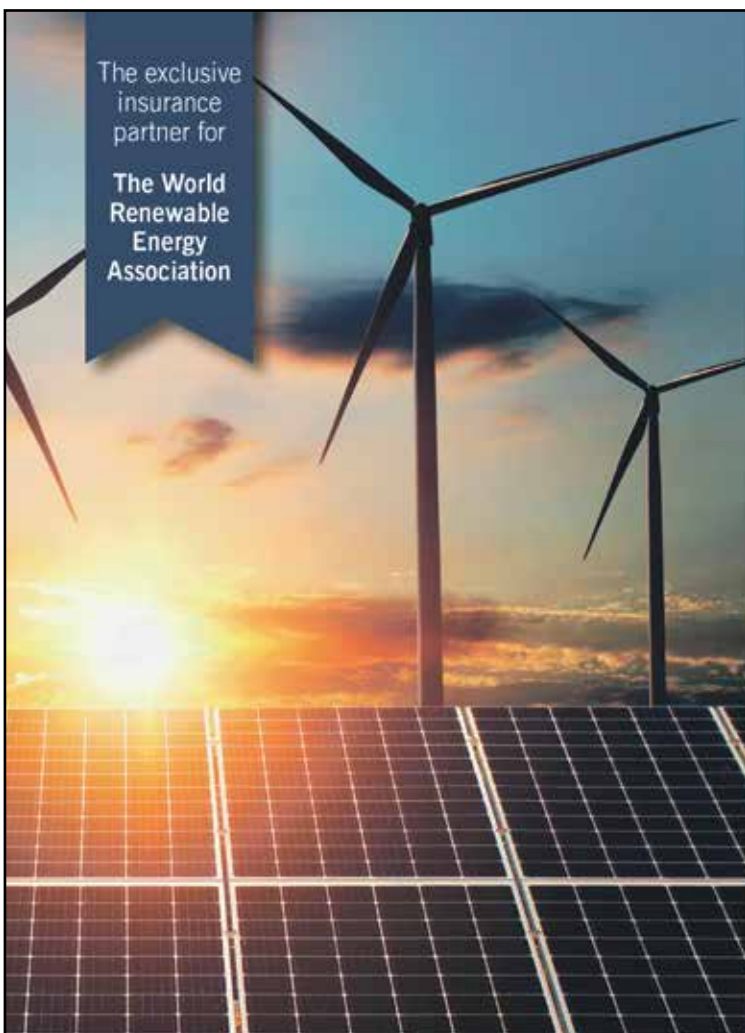
In order to select the best solution it is necessary to accurately assess the physical properties of the product or sludge to be treated, as well as the service fluid, inlet and outlet temperatures and the amount of heat regeneration required (if any). When comparing specifications or quotations for different solutions – for example SHEs compared to corrugated tubes – it is important to make sure that you are comparing like-for-like and that the performance specifications are identical. You should also assess whether any gains in efficiency or lower capital cost will be offset by increased fouling or operational costs over the full life of the unit.

T 01923 232335
www.hrs-heatexchangers.com



Spiral heat exchangers are difficult to clean and service

Renewable Energy News



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Proud to protect your business

From waste heat to hot water

Industrial refrigeration systems with air-cooled condensers waste energy by emitting energy to the ambient air, according to SWEP, a supplier of compact brazed plate heat exchangers. By installing a desuperheater, much of this waste energy can be converted to hot water, with a wide range of applications, believes the company.



Brazed plate heat exchangers (BPHEs) are an integral tool that allow extra heat to be extracted from the refrigeration system. A BPHE, called a desuperheater, is inserted between the compressor and the condenser. This enables the BPHE to extract the heat from the gases or liquids before it goes into the condenser to be condensate (the liquid collected by condensation).

Installing a BPHE helps to increase efficiency levels to achieve the demanding recent EU Ecodesign Directives that cover high temperature process chillers. Evaporators can operate at a range of temperature levels to meet the required demands for a variety of refrigerants.

BPHEs offer copper brazing as standard but also stainless steel & nickel as alternative brazing materials to meet the demands for various corrosive fluids.

T 01235 838612
David.gill@swep.net

Oil Removal Company of the Month

Tough products for tough environments

Sustainability Today is proud to announce that Tanky Systems has been selected as our Oil Removal Company of the Month, for its outstanding range of oil separation and removal equipment.

As a part of Border Automation Services Ltd, which was established in 1998 by Garry Frost, Tanky Systems was set up in 2012 and specialises in the manufacture and supply of oil skimmers and oil handling equipment. This includes the Sudraker oil skimmer, which in 2012 had been successfully operating for 12 years but had not had an official marketing launch.

In 2018, Garry partnered with design engineer Rob Bolt to begin a new phase of development for Tanky Systems, with the mission to streamline manufacturing, offer greater oil removal capacities, create a range of bespoke accessories to make installation easy, and to provide effective solutions for oil and solids management.

Based in Bristol and serving the whole of the UK, Tanky Systems aims to supply appropriate equipment, advice and services to anyone with oil separation or removal issues, particularly for



the manufacturing, land management and water treatment sectors. "Every installation is different, and the best installations almost always come as a result of dialogue," Garry explained. "Considerations when designing an oil removal installation could include atmospheric conditions, accessibility, the necessity for weirs or settlement tanks, oil collection and management, fluid transfer and much more. We have the necessary experience to provide advice in a wide variety of sectors."

One of Tanky Systems' key advantages is the reliability of its products in a hostile environment. Its units have been designed and tested on industrial washing machines, where they have to survive typically in hot, chemically rich and steamy locations. Furthermore, Tanky Systems does not consider its skimmer belts to be a consumable item. In fact, the company now offers a 10 year warranty on them, giving its



Tanky Systems also offers its new solids filtration tray, which separates both floating and sinking solids from skimmed oils at the point of removal. "Removing solids from skimmed oils make it easier to pump the oils to a remote location without the risk of blocking up pipework or pumps. An additional benefit is that waste oils without



clients longer term cost savings and reduced production downtime.

A notable member of its product range is the tank-track style polymer belt. This is highly resistant to a vast range of chemicals and oils, is lightweight, and can be easily lengthened or shortened. What's more, the belt does not need a tensioning device to give it drive, an important factor in a wet oily environment, and it can easily be pushed out of the way for tank cleaning.

solid contamination are normally less expensive to have disposed," Garry explained.

After attending the RWM Show in 2019, Tanky Systems listened closely to visitors and identified areas for development moving forward. "Management of solids was an area of interest, particularly for sewerage and high solids content effluent such as the output from fish processing and the like. This can be split into two separate requirements, firstly to be able to remove oil from these environments without clogging, but more interestingly to deliberately remove and manage the floating solids from such environments."

Certainly, Tanky Systems has an exciting future ahead of it, as it continues its work to offer reliable and easy-to-use equipment for oil and solids management. Thanks to its extensive industry knowledge and expertise, Tanky Systems is an ideal source of advice and information and is always happy to talk through clients' specific requirements or issues. Get in touch using the details below to find out more.

T 01179 445175
www.tankysystems.com



Safety Solutions Company of the Month

GreCon – safer people and places and smarter factories across UK & Ireland

In this issue of Sustainability Today we have chosen GreCon as our Safety Solutions Company of the Month for its innovative selection of fire protection and industrial process measurement solutions.

Established in April 1992, GreCon is located just outside of Newcastle upon Tyne and is a member of the Fagus-GreCon Group. With a wealth of experience as a global market leader, GreCon demonstrates a strong understanding of customer needs and provides solutions for a wide variety of industries including wood panel, wood manufacturing, recycling, biomass, pharmaceutical, food and many more.

GreCon's fire protection technology protects industrial premises, process and people, detecting and extinguishing ignition sources, making workplaces safer and enabling uninterrupted production.

GreCon's measurement and inspection solutions help customers to improve product quality in their production processes, using proven German engineering to reduce material and energy costs, ultimately maximising operational efficiency.

"We are a global market leader. Our parent company Fagus-GreCon brought to market the first industrial spark extinguishing system in 1973. Since that time, GreCon's product portfolio has significantly evolved, with continuous investment in R&D. Today customers all over the world rely on GreCon to add vital protection and to help them optimise their manufacturing process," Jonathan Hamill, Managing Director.

With a track record spanning 28 years, GreCon has been successfully providing engineered fire protection and industrial measuring solutions to businesses across the UK & Ireland. Jonathan continued, "We offer turnkey solutions and a comprehensive in-house service, delivered by a UK based network of Engineers."

There have been a few noteworthy developments for the company, Jonathan told us that, "In terms of a refreshed Sales team, we have Tom Burniston (Head of Sales) who re-joined the business in 2019. Tom is known to many of our customers. Nathan Ashford also joined us recently as Technical Sales Manager – Nathan's engineering background will be highly relevant in this role. Beth Williamson joined us during 2019 and was recently

promoted to an inside sales role – Beth looks after business development and sales of critical spare parts."

The company has also recently seen growth after a positive year in 2019. "We achieved double-digit percentage growth last year despite a lot of industry uncertainty surrounding Brexit," Jonathan stated, "This has placed us in an even better position to look after our customers. We have invested in a new remote support solution; Satellite, which allows us to connect to customer systems remotely to provide a faster response & diagnostic service."

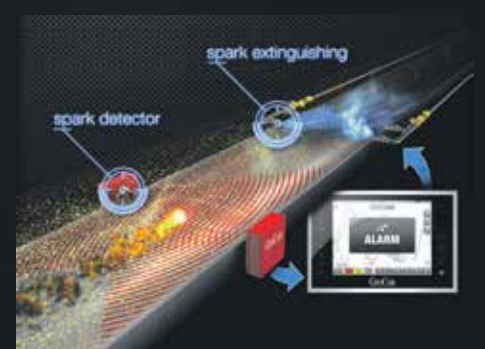
GreCon has also launched the DLD 1/9 spark detector (see left) which provides optimal detection performance for all

ignition sources in any environment, thanks to intelligent detection technology. The DLD 1/9 is a highly sensitive detector which offers a number of key benefits. It distinguishes between dangerous sparks and harmless ambient light. Intelligent detection technology is used to prevent false alarms. Hot particle detection in high-temperature processes is also possible and sensitivity is adjustable for the perfect fit to the individual threat.



In terms of the company's future plans, GreCon plans to continue their organic growth and are looking forward to 2020 after such a successful year in 2019. The company will be exhibiting at the RWM Show on 16-17 September 2020.

T 0191 414 7200
sales@grecon.co.uk
www.grecon.co.uk
www.twitter.com/greconltd
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Air Quality Limited

Turbo Visor DTMV 1001 MV with 8HR waist belt mounted battery pack

FOR THE ULTIMATE PROTECTION IN INDUSTRIAL OPERATIONS AND PHARMACEUTICAL SECTORS

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Ultra 4: The latest revolution

Pulsar Process Measurement is pleased to introduce a new addition to its Ultra Controller family. The Ultra 4 is a brand-new controller in the Pulsar portfolio and builds on the world-leading technology we have seen in previous products. The Ultra 4 offers the sophistication and advanced features of the rest of the Ultra range in a compact, cost-effective package and useful new features make it even easier to set up and fine-tune. Offering, as the name suggests, four alarm or control relays (3 x SPCO isolated and 1 x SPNO solid state) and a multifunctional display while losing none of the easy set-up and configuration that has made the Ultra range the natural choice for non-contacting measurement world-wide.



Like the rest of Pulsar's 'transducer plus controller' ranges, Ultra 4 is compatible with both dB ultrasonic and dBR radar transducers. These non-contacting technologies are complementary – measuring by signal analysis but excelling in different situations. A major benefit to Pulsar customers is that they have the freedom of choice, so when the going gets tough in those applications where there is foam, high temperatures and vapours, the Ultra 4 is compatible with both ultrasonic and FMCW radar transducer heads.

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Working hard today to enrich the world of tomorrow

Sustainability Today is proud to announce that Dunton Environmental has been selected as our Environmental Remediation Company of the Month, for its outstanding commitment to enabling and empowering its clients' build sites to help restore and protect the environment.

Established by Neil and Lara Roe, Dunton Environmental is a specialist in solving complex ground problems in the construction and land development industry, challenging traditional thinking and continuously developing new ideas to deliver real programme and cost benefits. With big name clients such as Persimmon, Crest Nicholson, Willmott Dixon, and Berkeley Group, Dunton Environmental has an enviable reputation within the industry, thanks to its admirable mission to 'bring the world to life'.

Based in Walsall, Dunton Environmental's expert services are helping businesses and communities across the globe to regenerate vital natural resources. In the UK, the company is using its expertise to alleviate environmental and financial stress for its customers, working in partnership with them to help achieve their programmes both on time and on budget.

Indeed, Dunton Environmental is of the firm belief that a sustainable environment is not optional; it is integral to the wellbeing of the world today and for future generations. Dunton Environmental is helping to achieve this through a variety of means, whether this is safely regenerating waste material to power nations, enabling sustainable construction projects, or restoring land to support wildlife and communities.

"We offer cost-efficiency through innovation, and we pride ourselves on being able to deliver our projects on programme," explained Jonathan Millington, Marketing Manager. Indeed, increasing numbers of clients are choosing Dunton Environmental thanks to the company's trusted and reliable reputation, with the guarantee that it can turn their build site challenges into their greatest successes.



This is achieved through a range of expert services, including enabling works, demolition, waste management, pile mat installation and management, design, soil stabilisation and ground improvement, soil and water remediation, and earthworks.

Most recently, Dunton Environmental launched the 'D-Found' soil stabilisation process, a cost-effective alternative to piling and trench filling foundations. As one of the construction industry's leading foundation solutions, D-Found has proved to be a simpler and quicker implementation than traditional techniques.



What's more, D-Found's benefits reach further than simply saving time and money. Thanks to the simplicity of remediating and re-engineering natural ground conditions, D-Found is an environmentally friendly solution as well, with all site materials being used to avoid unnecessary disposal of unsuitable or contaminated soil.



As a fully designed and engineered solution, D-Found is a proven system which offers guaranteed structural settlement criteria. Thanks to Dunton Environmental's years of experience delivering foundation solutions, its innovative systems easily meet industry settlement norms and offer clients unmissable benefits.

In order to cope with its continued expansion, Dunton Environmental recently moved into a new head office, Soterion House. After spending 10 years in its previous head office in Perry Barr, the company dedicated 2019 to the refurbishment of its own, brand new and state of the art headquarters in Aldridge. Starting out as an extremely dated building, Soterion House is now one of the most modern, creative and stylish office buildings in the North Birmingham area, after Dunton Environmental's transformational



refurbishment.

As well as a more pleasing work environment for Dunton Environmental's staff, this new larger premises will help to facilitate the continued growth and expansion the company will inevitably see in the coming years.

In addition to its leading efforts to restore and protect the environment, Dunton Environmental also carries out considerable Corporate Social Responsibility work, supporting charities across the world. Indeed, the company believes that it must use its success and position as a platform to change the lives of the world's most vulnerable people and places.

Through its non-profit organisation, Hope Alive, Dunton Environmental provides funding, resources and hands-on time to a multitude of charities covering a vast range of causes. One of the company's recent projects was a Hamper Appeal in December 2019. 15 years ago, Dunton Environmental created the first ever 'Hope Hamper', and since then, funds raised every year by its Hope Alive charity are used

to create Christmas 'Hope Hampers', which are filled with everything needed to create a special and magical Christmas for struggling families.

If you would like to find out more information on everything Dunton Environmental has to offer, and how it can help you solve your complex environmental problems, head to the website or get in touch using the contact details below.

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Exponent is a scientific, engineering, and regulatory consulting firm that provides solutions to address complex technical opportunities and problems. Our Food Safety and Regulatory Affairs team is part of Exponent's Centre for Chemical Regulation and Food Safety, which has over 90 staff based in the UK, Europe, the US and China. Exponent can provide expert support in many areas related to food safety and regulation.

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Cool Boxes UK

Keeping your goods cold for up to ten days and frozen for two days using no power! Since 2005 Cool Boxes UK has been supplying the catering, street food, fishing, medical and leisure markets with Icey-Tek premium cool boxes. Icey-Tek coolers were designed to cope with Australian summers and are hand built; this makes them extra strong, durable, long lasting and (crucially) they contain more cooling insulation than any other passive cooler. Ideal for commercial applications.

Icey-Tek cool boxes are available in 16 sizes, from 25 litre capacity all the way through to a whopping 1,100 litre monster (goodbye expensive refrigerated van!). With a choice of many colours, size configurations, seat cushions, gel packs and the option to



customise with your own branding; Icey-Tek and Cool Boxes UK are the solution of choice for thousands of happy customers across the UK and Europe.

To learn more, please visit:
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any questions to Luke Power at:
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MYSON becomes MYSON

MYSON has introduced a new, strong brand position aligned with meeting customer needs and tackling global challenges of changing climates, scarcer resources and growing populations. The strategy is based on delivering more sustainable and integrated heating solutions. MYSON has also created a new suite of visuals to complement the transition which includes striking new branding designed to reflect its heating expertise.

MYSON's promise to the market is 'Comfort delivered' and achieves this through a unique full-system approach that is designed to optimise heating system performance. The company offers an incomparable range of products and solutions using four focus areas to drive the change towards more



sustainable indoor climate comfort solutions.

Improve efficiency by optimising the energy efficiency of solutions through areas such as system accuracy, without jeopardising indoor climate comfort.

Better integration by integrating solutions into innovative systems to boost performance. Providing complete solutions rather than just components will ensure a level

of indoor climate comfort that will include multiple optimisation benefits.

Work smarter by supporting planners, wholesalers and installers with a wide range of benefits to make every day easier, increase work efficiency and deliver better solutions.

Reduce footprint by limiting the use of resources, such as energy and water, and decreasing the impact of production processes on the planet. As well as this MYSON is committed to continuously investing in sustainable quality and innovation, while taking the entire life cycle of our products into account.

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Coolair brings efficiency to Gloucester landmark project

Coolair Equipment has won a contract worth over £300,000 to install an air conditioning system with heat recovery at the Gloucester Business Park at Brockworth. Gloucester Business Park was officially opened in September 2000 and is home to more than 70 companies including Direct Wines, Horizon Nuclear Power, Ageas and TBS Engineering.

The commission from M&E building services contractor Spie UK is aimed at creating a three-storey building that is both visually exciting and technologically advanced, with a plaza entrance and asymmetric fenestration and the highest standards of comfort for its occupants.

Coolair Equipment will equip the building with a new Hitachi IVX VRF system combined with Daikin DX condensers to serve the building's air handling units. The VRF systems will deliver exactly the right amount of refrigerant to ceiling void ducted fan coil units.

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is specially designed to use the rejected heat from cooling sun-facing spaces to heat non-sun-facing areas simultaneously. It also has the added advantages of reducing the building's carbon emissions and keeping operating costs low.

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Sitepower UK has launched its latest 10 KVA construction site transformer, nicknamed the 'Connect & Go'.

It is fully manoeuvrable as it has 4 strong and lockable castors, and the 230 volt input socket allows for instant connection as all internal wiring is already in situ. Both 1 phase and 3 phase versions are available.

Site Power UK has also provided 2 extra 110 V internal

terminals via a separate MCB panel for fixed 110V lighting.

2019 is destined to be a big year for the company as it will be moving into a larger, purpose built factory to make it more efficient and speed the development of new and innovative transformer products.

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What's more, Castle Gates & Automation can add automation to an existing gate, and it services and repairs all gate automation systems whether installed by the company or by someone else. Call-out rates are highly competitive, and the company offers a fully bespoke service including piers and groundworks.

As a small family run company, Castle Gates & Automation has an enviable reputation for quality

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Airedale Group's acquisition of Flowrite Refrigeration

The Airedale Group, the leading UK specialist in the installation and servicing of catering equipment UK, is pleased to announce the successful acquisition of Flowrite Refrigeration Holdings Limited ('Flowrite' or the 'Company').

Flowrite is a market leader in the refrigeration and air conditioning service market. The Company has an enviable customer base which includes some of the UK's largest hospitality and retail brands. They receive a best-in-class service, from Flowrite's market-leading technology platforms and professional team of one hundred engineers based throughout the UK.

Flowrite, under the leadership of their CEO Tod Harrison, has grown revenues through a combination of attracting new customers and expanding its geographic footprint – transitioning the business from a strong regional provider to a national player. Flowrite is recognised as one of the leading specialists in the UK market today having recently been awarded National Contractor of the Year in the Annual RAC Cooling Awards.

Tod comments, "This philosophy of building a Group of highly complementary brands that are specialists and



leaders in their respective sectors but also work closely together, was a compelling consideration and a key reason we chose to partner with Airedale for the next part of our journey."

This acquisition brings together two long established and well respected companies in the hospitality sector and adds refrigeration, cellar cooling, remote monitoring and air-conditioning capabilities to Airedale's already strong service offering.

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Free-From doesn't have to be Free-From taste with Leighton Brown

Starting from humble beginnings in 2013, Leighton Brown was a vision created by three friends working in a restaurant in an East London Pub. Dreaming of creating the most flavoursome free-from vegetable crisps available on the market, the trio founded Leighton Brown as a platform to sell the delicious crisps to the world.

Moving into 2019 and the company has grown and developed significantly with notable new additions to its team; in November 2018 the company welcomed Steve Marsh as CEO who



has revolutionised the company, bringing the products into bigger markets.

"When I started, my aim was to take Leighton Brown to the next level. When the three founders started out with their idea they were really ahead of their time creating great tasting vegetable crisps which were gluten free, vegetarian and packed with flavour. The Beetroot, Horseradish and Dill crisps are also Vegan friendly." Steve continued, "Originally the company began supplying pubs and restaurants and now we have expanded our market, supplying a range of retailers including farm shops, delis, food halls and coffee shops."

In terms of the range of crisps, Leighton Brown maintains a selection of three award winning products. Uniquely paired and bursting with flavour, Leighton Brown's crisp range includes: Parsnip and Manuka Honey, Sweet Potato, Cheese and Jalapeño and Beetroot, Horseradish and Dill. "We have been recognised for our products, winning awards such as a great taste award for our Sweet Potato, Cheese and



Jalapeño crisps and we were recognised by Lux Life Magazine, receiving their Best Gourmet Crisp Brand of the Year for the South East of England 2019."

Aside from the crisps' unrivalled selection of flavours, one of the most noteworthy properties of Leighton Brown's crisps is that all of the ingredients used are natural, non-GMO and contain zero preservatives.

Highly renowned for its distinctive recipes, Leighton Brown's crisps have been recognised for their delicious taste and healthy ingredients which is leading them to become a well-sourced product for free-from snacks. Speaking about an event that the company recently attended, Steve told us that, "We actually had a visitor at the Food Matters Live event who approached us and said, 'at last I'm tasting a free-from product which isn't free-from taste!', he expressed to us how many other free-from products are tasteless and textured almost like cardboard and that he was so happy to find an alternative that was packed with flavour and with a great texture too." Leighton Brown is constantly striving to be at

the forefront of free-from snacks and pursue new ways to expand its niche market. Speaking once more with CEO Steve Marsh about the future plans for the company, he said that, "We're pushing ahead; we want to expand our market presence and move into bigger outlets. Ideally we plan to get our products into supermarkets. We are also listing with Epicurium, providing national access to 1,700 independent outlets, major forecourt groups and vending companies."

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East London Brewing Company

East London Brewing Company has just completed the installation of its new plant, which more than doubles the company's brewing capacity and allows for further expansion of its keg and can ranges.

Established in 2011, East London Brewing Company is passionate about beer and about celebrating brewing as one of the many wonderfully diverse, creative and innovative traditions of East London. The beers it brews explore familiar British classics, such as Foundation Best Bitter, incorporate twists on classic styles as seen in Orchid Vanilla Mild and showcase newer styles, such as Beyond the Tower IPA.

Coinciding with the completion of the



new brewery, the company has hired a new Head Brewer, Adrián Morales

Maillo, who comes from leading Spanish microbrewery, Naparbier. With a background in brewing stunning hoppy beers such as Neipas and more classical West Coast IPAs, Morales Maillo brings specific expertise in keg beers, particularly lagers.

Adrián is behind both East End Lager – the company's first ever lager – and Beyond the Tower IP, which are available in both keg and can and sport the company's new branding, which will eventually be rolled out across the whole range, including the existing bottles and casks.

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Drink Sträva

After a successful UK launch at the CoffeeShop Expo 2019, Sträva CBD-infused coffee is proving to be a popular option in both the CBD and coffee drinks markets.

The CBD industry has been one of the fastest growing markets in Europe, and is continuing to expand as we start 2020. Coffee and CBD are the perfect pairing – and a cost-effective way for consumers to integrate CBD into their daily routines when compared to oils or tablets.

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Tradex News is proud to announce that **The Preparation Group** has been selected as our **Surface Preparation Company of the Month**, for its outstanding range of contracting services, innovative equipment, and unrivalled training facilities.

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Preparation Group is a specialist in surface preparation, removal, re-texturing, polishing and cleaning, offering cost-effective solutions with the largest and most innovative range of equipment in the UK. The company also manufactures machines and tools, offering an easy to use range including dust extractors to ensure safe and clean operation.

Offering shotblasters, planers, grinders and multi-strippers, The Preparation Group also sells accessories for these machines, with an expert technical team who can provide on the spot guidance in selecting the right solutions for each requirement. The Preparation Group can also offer overnight delivery across the UK and in some cases same day delivery, holding large stock levels to make sure that equipment and tools are always available.

On top of its contracting and manufacturing operations, The Preparation Group also has a specialist training facility, featuring a qualified assessor and a professional experienced team. The facilities at this state of the art training hub are the best in the UK, fully equipped with the



latest technology, and all course subjects can be tailored to suit the business.

Earlier this year, The Preparation Group launched its 'Go Green' initiative and logo, promoting the fact that all of its equipment is green and that the company is employing numerous

initiatives to reduce its impact on the environment.

If you would like to find out more information on everything The Preparation Group has to offer, head to the website or get in touch using the contact details below.

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Driving the next generation of mobility

Tradex News is proud to announce that **ZF Services UK** has been selected as our **Mobility Technology Company of the Month**, for its range of leading quality systems for passenger cars, commercial vehicles and industrial technology.

Established in Nottingham in 1973, ZF is enabling the next generation of mobility, using its comprehensive technology portfolio to offer integrated solutions for established vehicle manufacturers, mobility providers and start-up companies in the fields of transportation and mobility.

With a global workforce of 149,000 and approximately 230 locations in 40 countries, ZF is a company with a strong worldwide presence, and is continually enhancing its systems in the areas of digital connectivity and automation.

True to its guiding principle of 'See, Think, Act', ZF has the technical competence and range of products to allow vehicles to do just that. It has secured its strong global position by mastering the interaction of sensors, control units and motion control. This intelligent interplay between components and systems not only helps vehicles become safer and more efficient, but is also a prerequisite for autonomous driving.

In the UK, ZF Services provides support, service and products for passenger car, commercial vehicle, off-highway, rail and marine customers. The fully ISO accredited Centre of Competence in Nottingham remanufactures and repairs transmissions, axles and gearboxes for truck, coach and bus applications, and its recent expansion means the facility now boasts a 6,500m² workshop area.

This repair centre has been developed to ensure customers benefit from a complete range of support solutions, from repair and remanufacture to parts and technical support. The centre also stocks and distributes an expanded range of genuine ZF parts, as well as providing a non-ZF gearbox remanufacture and a reverse engineering service.



"ZF Services UK provides all our customer markets with the highest quality standard of remanufactured ZF gearboxes with all the latest modifications via our links to the parent factories in Germany," said Alex Acosta, Sales Engineer. "This improves reliability, drivability and performance. ZF Services UK has one of the highest quality technical teams in the world with a vast wealth of knowledge and experience, and we also provide retrofit options to certain customer markets, especially into buses, fitting ZF products into existing chassis to improve fuel consumption, reliability and reducing current life cycle costs."

Indeed, a few years ago, ZF Services UK formed a partnership with engineering company in-tech to significantly reduce greenhouse emissions in cities. e-troFit is an innovative bridge technology to enable the efficient switch from diesel engines to a smart and sustainable alternative, and ZF contributes the necessary components for this, as well as offering access to its global workshop network. Because for many cities it can be incredibly time-consuming and costly

to procure new, electrically powered buses, the e-troFit is an ideal alternative that can be quickly realised.

ZF Services UK is driving the electrification of commercial vehicles and performs a leading role in the development of zero-emission drive solutions for city vehicles with a limited range, working with major bus operating groups across the UK and Ireland as well as OEMs such as ADL, Volvo and Scania.

ZF provides two key products for the e-troFit, the CeTrax, which is an electric central drive developed for city buses, and the AxTrax AVE, which is an electric portal axle. Together, they are helping the move towards local, zero-emission public transport.

Using the CeTrax and AxTrax AVE makes it incredibly simple to convert conventional bus models. The CeTrax can be installed into existing vehicle platforms without the need for any major modifications of the chassis, axles or differential. In terms of performance, it is equal to conventional drive units, boasting a maximum power of 300 kilowatts and a maximum torque of 4,500 newton meters. The bus can accelerate from standing without any torque interruption, meaning passengers don't notice a thing, and it also results in lower chassis vibrations and a quieter ride than conventional engines.

What's more, the CeTrax can be combined with single rear drive axles and conventional low-floor axles, meaning it can be installed in low-entry buses and low-floor axle buses of all sizes. Compared with other solutions, ZF's central drive provides clear weight advantages, better performance and excellent efficiency.

The AxTrax AVE is suited to various types of drives for city buses, whether as a serial hybrid, all-electric drive powered by a fuel cell or battery or from the overhead contact line. The increased use of the braking energy or the use of smaller combustion engines also helps significantly reduce fuel consumption and pollutant emissions, compared with conventional concepts. Even lane-independent, zero-emission driving in cities is possible, vastly increasing cost-efficiency and usability.

Moving forward, ZF is continuing



to pursue its 'Vision Zero' goal, which looks at achieving mobility with zero accidents and zero emissions. Thanks to its leading technologies, ZF has the tools necessary to achieve this vision and to make driving a vehicle in the future both cleaner and safer. More information on this admirable mission can be found here: www.zf.com/site/magazine/en/articles_2369.html

Each year, ZF participates in a number of trade events across different industries, and recently exhibited at Coach & Bus UK in October 2019. If you would like to find out more information on everything ZF Services UK has to offer, head to the website or get in touch using the contact details below.

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