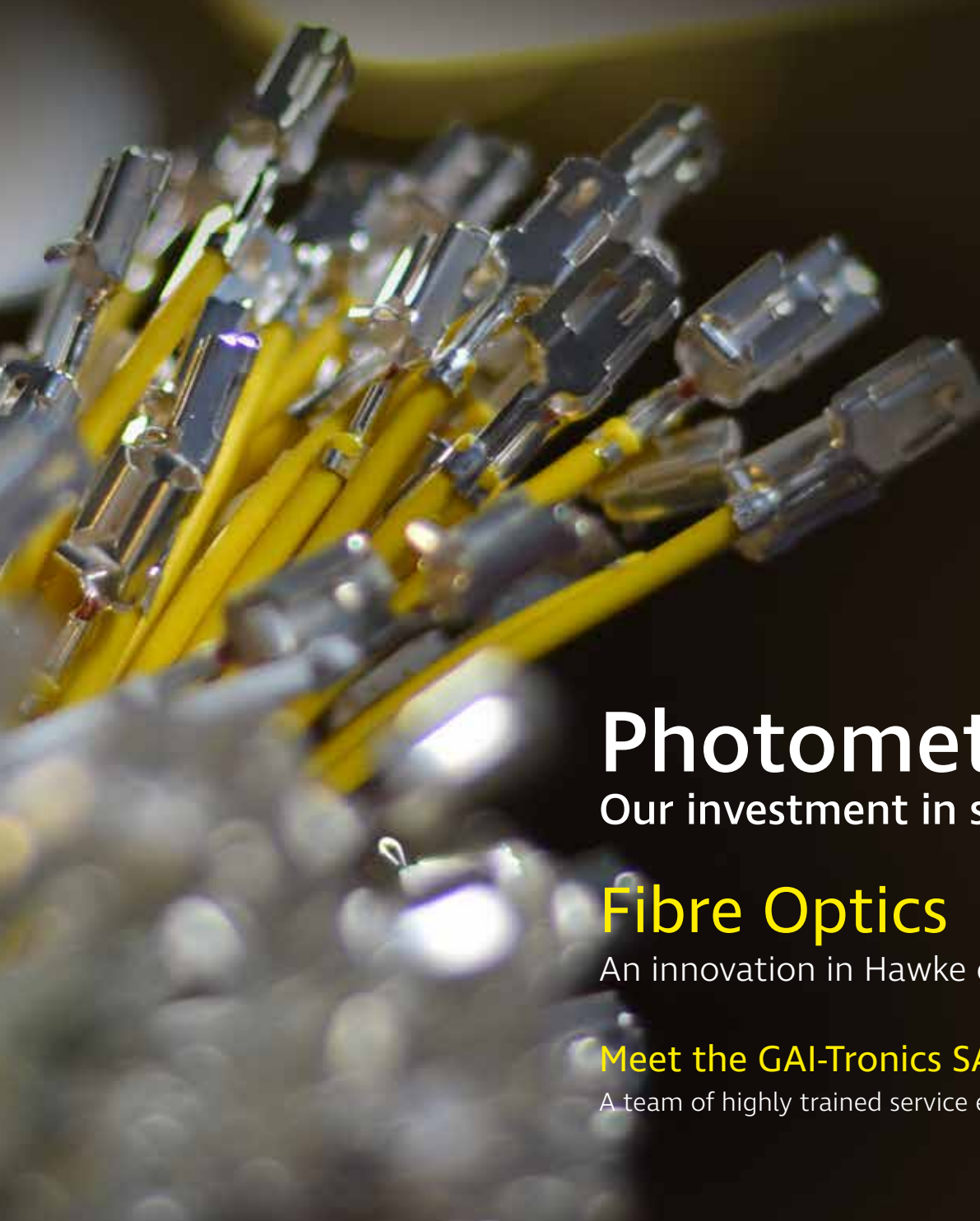




H&H

Hubbell Harsh & Hazardous Magazine Issue 2 Spring 2018



Photometrics
Our investment in science

Fibre Optics
An innovation in Hawke connectors

Meet the GAI-Tronics SAS
A team of highly trained service engineers



Communications You Can Rely On

TELEPHONES • PAGING & INTERCOM • MASS NOTIFICATION • PUBLIC ADDRESS & GENERAL ALARM

WELCOME

The Hubbell Harsh & Hazardous team have had a busy start to 2018. With several exciting product launches already completed, the team are more committed than ever to creating innovative and market leading products that always exceed the customers' expectations.

In no area is this commitment more evident than in our fibre optic product developments. Over the past 20 years, Fibre technology has been increasingly used in multiple applications. Ideal for lightning fast communication and data transfer, our key focus in this issue is how new products from Hawke International (p.4) and GAI-Tronics (p.18) are allowing their customers to harness this technology in Industrial and Hazardous applications. In particular, Hawke's Connection Product Manager, Matt Ogden, is focusing on how dangerous installing fibre in hazardous areas can be without following the latest protection concepts.

In light of Fibre technology's superior environmental friendliness in comparison to traditional copper wiring, we're also celebrating our commitment to sustainability in this issue. Our contribution to projects like the Beatrice Windfarm (p.19), our partnership with GSK which will help them to harness environmentally friendly LED technology (p.6) and our ongoing aim to minimise the impact we have on our local environment (p.13) all position us as a company not only committed to innovation but to conservation.

We hope you enjoy this issue of H&H magazine. Don't forget to head to www.harshandhazardous.com/magazine for more updates from our team.

*The Hubbell Harsh & Hazardous Marketing Team
Olivia Serrage, Millie McRoberts & Katie Bradford*

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The H&H Magazine has been written, designed and produced by the Hubbell Harsh & Hazardous Marketing Team. Many thanks to this issue's contributors; Gareth Turner, James Robinson, Angela Ewing, Andrew Murdoch, Marty Piraino, Steffen Hammon, Mark Poutney, Mike Schinner, Matt Ogden, Marcin Kazmierczak, Andrea Sparagana, Carrie Brynan, Mike Schinner Jr. and Nicole Ireland.

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OUT OF **THIS WORLD**

HARNESSING LIGHTNING FAST
FIBRE TECHNOLOGY SAFELY IN
HAZARDOUS AREAS

  Connect with us



HAWKE
International

acal
|bfi

In an increasingly digital age where computers are capable of more than we could previously imagine, one trend has become clear. Businesses and consumers now need to process more data than ever before - at lightning fast speeds.

For over 20 years, fibre optic technology has catered for this need - providing lightning fast communication and data transfer for everyday applications. The reasons for Fibre's dominance in everyday life are abundant. Unlike its predecessor, copper, it's light, EMI resistant and can transfer data at (almost) the speed of light.

However, the question of harnessing this technology safely in hazardous areas has been a contentious one. For too long, a common industry belief has been that if you use fibre optics in Hazardous Areas then you're playing it safe. You're not. Fibre optic radiation actually poses a serious ignition risk in Ex applications.

In order to prevent these ignition sources from developing, 3 protection concepts were developed as part of the IEC 60079-28 standard for optical radiation in hazardous areas in 2006. This standard was updated in 2015. The use of these protection concepts when installing Fibre Optic cabling will allow the technology to be harnessed safely in hazardous areas. That's why Hawke have designed their new Fibre Ex Connector to utilise two of the three protection concepts outlined in the 2015 standard. The first is 'Ex op pr or' protection. This is the standard method that Hawke offers and involves protection via mechanical means. Fibre Optic light beams are contained so that they can't escape and do any

harm - in a very similar way to Exd and Exe protection concepts. The second is 'Ex op is or' protection. This is like the concept of 'intrinsically safe' protection in copper cable and involves limiting the energy of the light beam to prevent it from creating an ignition source. To utilise this method, the Fibre Ex must be paired with a separately certified 'op is' source.

"Fibre Technology is ideal for communication and sensing applications in hazardous areas" commented Matt Ogden, Hawke's Connections Product Manager. "It's taken time to understand how the technology can be integrated safely in Ex environments but by combining the latest standards with our extensive experience in connector design, we've created a product that is not only safe but one that boasts all of the features of our market leading connectors!"

Indeed, like all Hawke Connectors, the Fibre Ex has been designed to provide a fast and simple alternative to complicated hard wiring methods. Utilising 'Plug and Play' technology, the Fibre Ex allows for quick installation or termination with minimal downtime. And, Hawke have also teamed up with Acal Bfi to provide a custom cable jumper service so that their customers can install their Fibre Ex connectors without the need for costly termination engineers.

Want to find out more?

Visit www.hubbell.com/hawke/en/fibre-optic-connector or Email Matt Ogden, Connections Product Manager at mogden@ehawke.com



HUBBELL HARSH & HAZARDOUS
ANNOUNCE **LED LIGHTING**
PARTNERSHIP WITH

GSK

Hubbell Harsh & Hazardous (Chalmit) have been awarded a supply agreement as Global LED Lighting Partner to pharmaceutical giant, GSK. Chalmit were selected for the superior quality of their products and services, alongside their innovative approach to lighting design.

“We’re delighted to be awarded this partnership with GSK” commented Mark Potter, International Business Development Manager for Hubbell Harsh & Hazardous. “Our aim is to allow all of our customers to harness the power and energy savings that LED Technology can offer and we’re very excited to help GSK do just that.”

To find out more about Chalmit’s LED Solutions visit www.chalmit.com



MEET THE GAI-TRONICS SAS

THEY'RE RUGGED, RELIABLE, ROBUST, WEATHER RESISTANT,
HIGHLY ADAPTABLE AND WORK IN SOME OF THE MOST
EXTREME CONDITIONS IMAGINABLE

No, we're not talking about our phones, we're talking about our team of highly trained service engineers, who are on call 24/7, 365 days of the year.

Here at GAI-Tronics, we like to think our products speak for themselves, but there is a whole other world working behind the scenes that contributes to our success. Whether it's our assembly line staff, office-based teams, product developers or design engineers, we know that every cog, regardless of its size, contributes to the overall running of the machine.

One of the many unsung heroes you may not be familiar with are our service engineers. These are the people who visit you on site if you experience a problem, need our expertise to find an effective solution, or require advice when planning a new project. They may look like any other ordinary member of the public, but there is more than meets the eye to these multi-skilled professionals.

"Many of our service engineers come from an engineering background to begin with and have years of invaluable experience already under their belt," said George Chaggar, Service Manager at GAI-Tronics.

"They then undertake a rigorous recruitment and training program with GAI-Tronics. These guys are on call all year round and may have to drop everything to fly half way around the world, so it takes a special kind of person to do this work. Many of the locations our products are used in are extreme 'harsh and hazardous' areas - which means the service team need to be fully trained to deal with difficult environments."

A typical scenario might find a GAI-Tronic's service engineer flying from the UK to the Middle East at a moment's notice. After a seven hour flight they will arrive in the destination country and travel to another location where they may be required to take a helicopter to an offshore oil rig. There they will be expected to deal with extremely difficult conditions, often working twelve hour days, seven days a week for up to 21 days straight, in all kinds of weather, until a satisfactory solution to the specific problem is found. Until recently, accommodation saw them "hot-bunking", which meant taking it in turns to sleep in a single bed shared among multiple other workers. Food is basic at best and access to the outside world is virtually impossible. And then there are the qualifications and certifications that service engineers are required to have, some of which include passing a full medical, achieving their offshore training certification and their safety training certification.

"One of the more challenging training exercises is helicopter underwater escape training (HUET)," continued George Chaggar. "This involves being strapped in to the 'dunker', a helicopter simulator that's submerged in an indoor pool. The simulator is then rotated 180 degrees so that escape from an upside down position, i.e. a capsized helicopter, can be practiced. It's an essential, but extremely taxing exercise."

At GAI-Tronics we value our customers by valuing our people and our exemplary service engineers are one of the best examples of this simple but effective ethos being put in to practice.

WHO'S WHO

AT HUBBELL HARSH & HAZARDOUS



Harsh & Hazardous

YOUR CHANCE TO GET TO KNOW A LITTLE BETTER SOME OF THE OUTSTANDING INDIVIDUALS WHO MAKE THE HUBBELL HARSH & HAZARDOUS BRANDS GREAT.



**BRIAN BARR, HEALTH & SAFETY OFFICER,
CHALMIT / HUBBELL SCOTLAND**

Having started at Chalmit in 1991, Brian has a wealth of experience across multiple divisions in Chalmit including: Assembly, QA and Health & Safety. Combining his experience with a multitude of qualifications including NEBOSH, a Health & Safety Diploma and graduate membership to IOSH, Brian is pro-active and committed to improving health & safety.



**STUART SERRAGE, WICKMAN SETTER
HAWKE INTERNATIONAL**

The go-to guy for problem solving on the Wickman machines, Stuart is responsible for making thousands of Hawke's best-selling Cable Glands each year. With over 36 years setting experience and 10 years working at Hubbell, Stuart loves the challenges that his highly skilled role presents every day!



**MICHAEL SCHINNER JR, FITTINGS PRODUCT
MANAGER, KILLARK**

Michael is starting his 6th year with Killark. Having recently taken on his new role as Fittings Manager, Michael is committed to developing market leading fittings solutions that exceed his customers' expectations. And, with three new products launched just last year, he shows no signs of slowing down.



**LEE ROBINSON, QEH&S REP and AUDITOR
GAI-TRONICS**

As GAI-Tronics' resident QEH&S rep, Lee has been instrumental in securing and maintaining our ISO 9001, 14001 and OHSAS 18001 certifications. With 20 years experience with the company, Lee has an abundance of knowledge in all things GAI-Tronics with a real passion for quality and certification standards.



HUBBELL HARSH & HAZARDOUS WHO ARE WE?

COMPRISING SEVEN HUBBELL BRANDS AND ACTIVE IN THE MOST EXTREME ENVIRONMENTS WORLD WIDE, HUBBELL HARSH & HAZARDOUS PROVIDE RELIABLE SOLUTIONS WHERE SAFETY IS PARAMOUNT.



The seven individual companies within the Harsh & Hazardous group combine market leading brands into a single Hubbell solution. With combined market experience of over 375 years the group leads the way in providing connection, lighting and telecommunication products to the world's harshest environments.

The oldest company within the group, Chalmit, has been providing lighting solutions onshore and offshore since 1910. Always at the forefront of new technologies, Chalmit were the first company to introduce LED's into a hazardous area light fixture in 2005 and continue to lead the way in innovative lighting technology.

Killark, founded in 1913 has been active in the industrial and explosion proof markets for over a century and provides enclosures, controls, distribution, lighting, plugs & receptacles and fittings into the global explosion proof and industrial marketplace.

GAI-Tronics are renowned for solving some of the world's most challenging communications needs. Products are manufactured on site in bespoke facilities in the UK and US, with further divisions spanning the Americas, Europe and Asia providing global customer support. Their portfolio includes Public Address & General Alarm, Telephony, Paging & Intercom and RF products servicing Rail, Mining, Military, Oil and Gas markets worldwide.

Hawke International, founded in 1955, whilst known for their market leading cable gland business also boast an extensive range of enclosures, hazardous area connectors, control stations and interconnect accessories. These market leading products, coupled with user-friendly online applications and constant product development have helped keep Hawke International at the forefront of the cable termination market for over 60 years.

The two most recent additions to the Harsh & Hazardous family, Vantage and RigPower are both based in the USA, but provide connector solutions worldwide to applications as wide ranging as nuclear, land based and offshore drilling rigs, mining, hangar and ground power, alongside the Oil & Gas based mainstay. Uniquely in the market, Vantage Connectors boast certification for use in Class 1 Div 1 locations.

These brands offer a unique opportunity for a true Hubbell solution. By working together, we can provide systems with worldwide certification and support under one family, ensuring the best possible solution to the global marketplace.

Market leading brands. One Hubbell System.

Visit www.harshandhazardous.com to find out more

HKH USF-CS & SJICH-CS HAZCON

CONTROL STATIONS



KILLARK HAVE POOLED RESOURCES TO CREATE THEIR NEWEST RANGE OF HKH CONTROL STATIONS

The USF and SJICH terminal enclosures have existed independently of Killark's market leading Control Stations since their launch, but our engineers have married the two ranges together to bring us the USF-CS and SJICH-CS range of Control Stations. This collaboration combines all the benefits of both product classes including; type 4X and IP66 protection, explosion protected modules and removable gland plates to aid machining in the field.

Killark have pulled out all the stops, developing the range in three different materials and 6 different sizes to satisfy all our customers' needs. Whether it's Cable or Conduit entry that you require, we can fulfil the demands of your project.

The culmination of all these benefits makes Killark's Control Stations the most versatile product in the Harsh and Hazardous market. The EXBLT also boasts an increased current carrying capacity of 20A at 690VAC and LED lamp modules made for 12-254V AC/DC.

Products can be supplied with contact blocks and pilot light as well as terminals. The ability to install terminals allows the user to wire directly onto the contact block or wire the contact block back to the terminals. This customisation allows us to provide a complete control package for use in the harshest environments.

For more information about HKH Actuators and Enclosures visit www.hubbell-killark.com or get in touch with Marty Piraino via mpiraino@hubbell.com

QUALITY IN THE SPOTLIGHT



WE TALK TO CHALMIT'S CUSTOMER QUALITY OFFICER, CARON HALDEN, ABOUT HOW HER 18 YEARS OF EXPERIENCE HAVE SHAPED HER APPROACH TO QUALITY

Wow, 18 years of experience at Chalmit. Tell us a bit about your journey!

Well I started as a production operator, putting the light fittings together for our customers but I have a lot of experience across multiple divisions! I was then promoted to Cell Leader and then Production Supervisor. Now I work in the Quality Department, as the Customer Quality Officer looking into customer feedback.

Has your experience across multiple divisions shaped how you approach your Quality Role?

Absolutely! Having experience across production and quality has given me a real insight into the lifecycle of Chalmit products. You could say my role has been 18 years in the making! Whereas I used to deal with products at the start of their life I now look into faulty or damaged products that haven't met our customers expectations. These products can't fulfil their useful life. Because of my experience I can identify the fault quickly and implement measures to stop that fault from happening again.

What do you consider to be the most important aspect of the Quality role?

As Customer Quality Officer the most important aspect of my role is the customer. They're at the centre of everything I do and I will always be on their side. If the customer has a problem with a product then they need a sounding board – that's where I come in! I need to listen, identify the issue and make sure that issue never happens again. In some cases, I can be the difference between a happy, repeat customer and an unhappy one. Making customers happy is really my priority and having experience across multiple teams has given me a greater tool kit to do just that!

Do you have an issue with a Chalmit product, or just a product question? Caron is always happy to help via chalden@hubbell-scotland.com

RISING FROM THE ASHES

RE-BUILDING BUNCEFIELD SAFELY

After the 2005 fire, BPA have now begun the mammoth project of re-building the Buncefield site to the highest safety standards possible. For increased safety and fast installation they've chosen Hawke's Easy Access Enclosures for the project. Find out why below.

On Sunday 11th 2005, disaster struck at the Buncefield Oil Storage Depot in Hemel Hempstead, UK as unleaded motor fuel was being pumped into storage tank 912. An incorrectly installed cut off switch, combined with gauges fitted to the tank which failed to warn of overfilling contributed to the UK's largest ever peacetime blaze. The severe damage to a site that had once handled 2.37 million metric tonnes of oil products a year prompted a complete revision of the standards for Fuel Storage Sites.

Armed with the 2009 HSE standards and with safety as the highest priority, on March 27th 2013 the British Pipeline Agency (BPA) started on one of their biggest projects in 30 years – the Buncefield Aviation Storage Terminal Rebuild Project. The project involves the complete re-design and construction of 8 tanks which will be able to store a total of 65,000m³ of fuel

and all associated pumping terminal and control facilities. The priority for the project is, in the words of Peter Davis, BPA Director and General Manager, to build to "the highest safety and environmental standards" in order to "re-instate Buncefield Terminal to its strategic role of supplying aviation fuel to Heathrow and Gatwick." It is with this principle of increased safety in mind that BPA chose Hawke's Easy Access Enclosures for the project.

Combining Hawke's exceptional Enclosure quality with a design that promotes easy installation and maintenance, Hawke have supplied the project with 211 Enclosures.

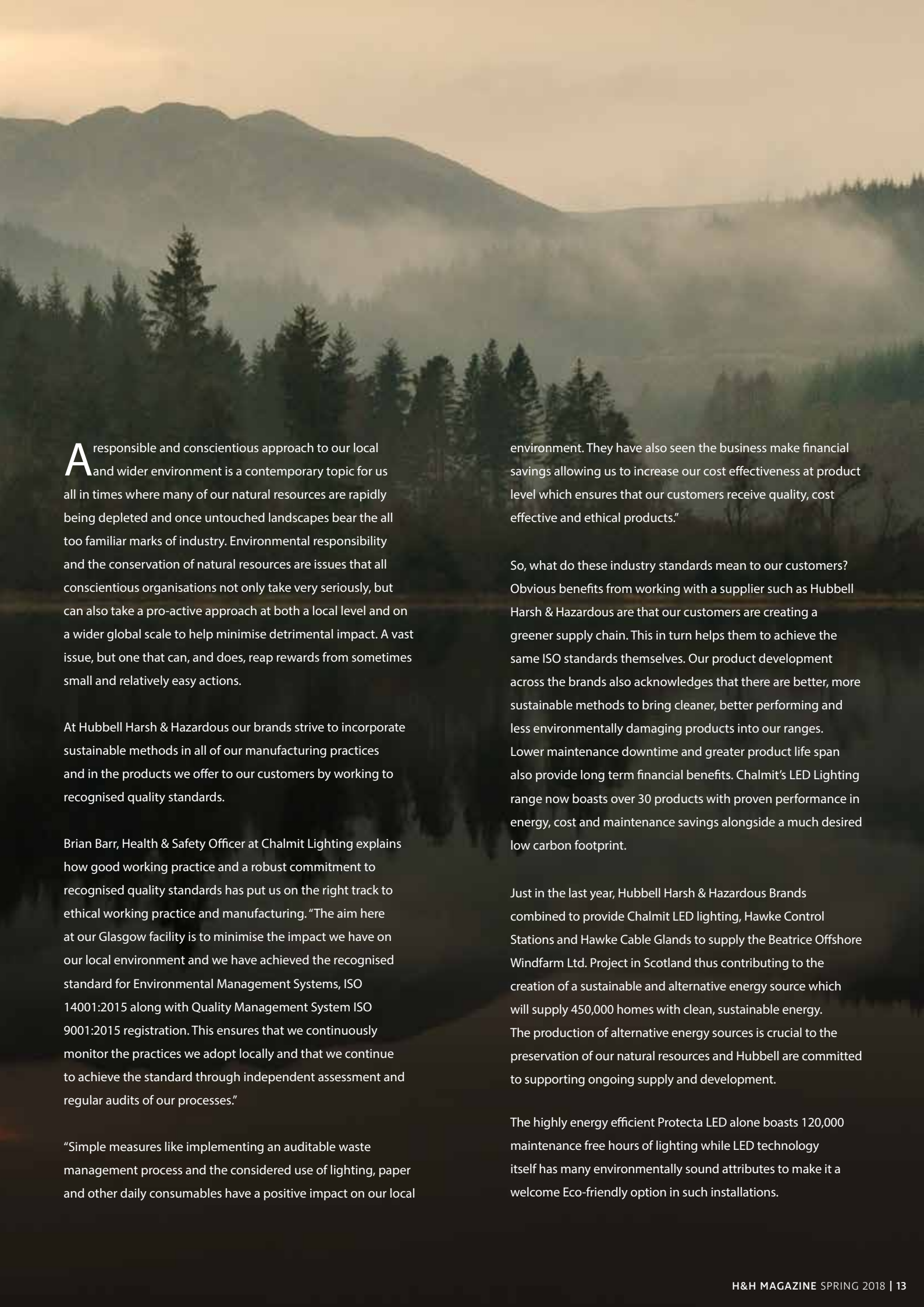
"The sloped face design of Hawke's Easy Access Enclosure exposed the terminals more and allowed for greater hand access so that we could terminate wiring much easier, and faster, than any other Enclosure we'd previously used" commented Mark Dickinson from BPA.

To find out more about Hawke's Easy Access Enclosure Range visit www.ehawke.com or email Hawke's Enclosure Product Manager, Steve Parkin via sparkin@ehawke.com



AN ETHICAL APPROACH TO **SUSTAINABILITY**

HOW HUBBELL HARSH & HAZARDOUS ARE
GETTING IT RIGHT WITH SUSTAINABLE WORKING
PRACTICES AND ETHICAL PRODUCTS



A responsible and conscientious approach to our local and wider environment is a contemporary topic for us all in times where many of our natural resources are rapidly being depleted and once untouched landscapes bear the all too familiar marks of industry. Environmental responsibility and the conservation of natural resources are issues that all conscientious organisations not only take very seriously, but can also take a pro-active approach at both a local level and on a wider global scale to help minimise detrimental impact. A vast issue, but one that can, and does, reap rewards from sometimes small and relatively easy actions.

At Hubbell Harsh & Hazardous our brands strive to incorporate sustainable methods in all of our manufacturing practices and in the products we offer to our customers by working to recognised quality standards.

Brian Barr, Health & Safety Officer at Chalmit Lighting explains how good working practice and a robust commitment to recognised quality standards has put us on the right track to ethical working practice and manufacturing. "The aim here at our Glasgow facility is to minimise the impact we have on our local environment and we have achieved the recognised standard for Environmental Management Systems, ISO 14001:2015 along with Quality Management System ISO 9001:2015 registration. This ensures that we continuously monitor the practices we adopt locally and that we continue to achieve the standard through independent assessment and regular audits of our processes."

"Simple measures like implementing an auditable waste management process and the considered use of lighting, paper and other daily consumables have a positive impact on our local

environment. They have also seen the business make financial savings allowing us to increase our cost effectiveness at product level which ensures that our customers receive quality, cost effective and ethical products."

So, what do these industry standards mean to our customers? Obvious benefits from working with a supplier such as Hubbell Harsh & Hazardous are that our customers are creating a greener supply chain. This in turn helps them to achieve the same ISO standards themselves. Our product development across the brands also acknowledges that there are better, more sustainable methods to bring cleaner, better performing and less environmentally damaging products into our ranges. Lower maintenance downtime and greater product life span also provide long term financial benefits. Chalmit's LED Lighting range now boasts over 30 products with proven performance in energy, cost and maintenance savings alongside a much desired low carbon footprint.

Just in the last year, Hubbell Harsh & Hazardous Brands combined to provide Chalmit LED lighting, Hawke Control Stations and Hawke Cable Glands to supply the Beatrice Offshore Windfarm Ltd. Project in Scotland thus contributing to the creation of a sustainable and alternative energy source which will supply 450,000 homes with clean, sustainable energy. The production of alternative energy sources is crucial to the preservation of our natural resources and Hubbell are committed to supporting ongoing supply and development.

The highly energy efficient Protecta LED alone boasts 120,000 maintenance free hours of lighting while LED technology itself has many environmentally sound attributes to make it a welcome Eco-friendly option in such installations.

AN ETHICAL APPROACH TO SUSTAINABILITY

Andrew Murdoch, Hubbell's Head of Sales in UK and Europe comments, "Over the past 2 years we have seen a significant change and switch to LED products across all the market sectors we supply, with LED now being the preferred industry standard for all end users. Our range of market leading products are designed, developed and manufactured in our world class Glasgow facility where we adopt key principles and standards which in turn lead towards key values such as minimum environmental impact, reduced cost of ownership, substantial savings on maintenance costs and the potential to reduce the number of products installed due to the overall better performance of LED lighting."

Hawke have also just launched a new Fibre Optic Ex Connector range with the development of two protection concepts which comply with the IEC 60079-28 standard for optical radiation in hazardous areas allowing the technology to be used safely in volatile settings. This is a major development from Hawke which makes for a more sustainable and less damaging option for the sustainable world as a whole as opposed to it's current copper counterpart. Coaxial cables are made of copper and this metal is dangerous to extract, highly contaminating to vegetation, water and biological life close to mining areas due to drainage into the environment caused by oxidation of metal sulfides. Fibre optic however is made from a very pure glass derived from Silicon Dioxide which is the second most abundant element found on the planet after Oxygen. Being the main component found in sand we have an almost endless supply and one which offers a greener and more sustainable option. Less energy waste means reduced CO2 emissions making fibre optic an obvious choice for greener technology.

Here at Hubbell we acknowledge that we have our part to play in a sustainable world and feel a real sense of responsibility to protect our environment through our efforts across all aspects of our business. With the development of products that utilise greener technologies and also our commitment to sustainability with real action within our facilities, operations, manufacturing processes and employee education, we are promoting an ongoing culture of sustainability which is particularly relevant within our industry.

We care about quality and we care about how we achieve it too.

"As a team at Chalmit our goal is to be the leader in all forms of harsh lighting technology giving the customer not only a world class product but also to support our products with a quality of data that will delight our customer. Our testing facilities certainly help us to achieve that goal."



A WORLD CLASS TESTING FACILITY

MARK POUTNEY TELLS US HOW CHALMIT'S NEW, STATE OF THE ART TESTING FACILITY WILL REVOLUTIONISE PRODUCT DESIGN AND ASSIST CUSTOMER PRODUCT SELECTION.

Photometrics, EMC, Inrush, thermal rise, IP, impact, harmonics and thermal conditioning; just some of the terms we hear banded about on a day to day basis when we talk about Chalmit products, but what does it all mean, and why do we need it?

Well, without this essential information we would not be able to certify, market or sell products in the multitude of countries worldwide we currently service. CE, Atex, IECEx, EAC, CSA and INMETRO are but a few of the worldwide standards these tests support, standards and certificates we are required to supply to our Blue-chip customers.

With that in mind our focus has been to develop our capability and become a Hubbell centre of excellence for all of the testing and verification topics above. Our most recent enhancement is to our Photometric and EMC testing with new and upgraded state of the art technology and equipment.

So what are EMC and Photometry, and why are these central to our product design?

- **Electromagnetic compatibility (EMC)** is a branch of electrical engineering concerned with the correct operation of electrical products in their intended environment. The electrical product should not generate any EMI which may damage or influence other products. The goal of EMC is to make sure equipment works correctly in common electromagnetic environments.
- **Photometry** is the science which focuses on measuring human visual responses to light.

Utilising our new Photometric and EMC Testing facilities can not only improve our speed to market with new products, but can give our customers an unparalleled level of information to help them design and build a new world class plant or facility with our luminaires. The data we can supply is gathered after combining our product design and some of the world's most innovative and recognised LED chip, driver & component manufactures, as well as working hand in hand with certification authorities and notified bodies worldwide.

To find out more about Chalmit's testing facilities
email Mark Poutney via mpoutney@hubbell.com



MODULAR MEANS ECONOMIC

| OPTIMISING RESOURCES IN THE NORTH SEA

Steffen Hammon from Hawke Distributor, Jacob GmbH, tells us how Hawke Ex connectors have been used to support the modular concept of the VDD 400.2 offshore deep drilling rig which is helping to make the de-commissioning and sealing of drill holes easier and more economically friendly in Norway.

Challenges and Solutions in the North Sea

Over the past 10 years, the North Sea Oil and Gas industry has been increasingly confronted with the problem of ageing platforms and exhausted reservoirs. Indeed, many drill holes are currently reaching the end of their lifespan and will need to be de-commissioned and sealed in accordance with local statutory provisions.

The problem here is that the jack-up rigs used in the North Sea rarely, if ever, have the capability to carry out the 'plug and abandonment' of these drill holes in an economic or technically correct manner. There are two potential solutions to this problem. On one hand you could upgrade the ageing platform. This method is extremely expensive due to the high cost of offshore labour (5-6 times higher than onshore). The other solution is a new, piggy-back method devised by Max Streicher GmbH.

Piggy-backing for progress

Rather than performing a technical and expensive upgrade on an older rig, Max Streicher has designed the VDD 400.2 – a modular rig that can be 'piggy-backed' onto the existing rig. Consisting of over 100 individual modules, the key advantage of this rig is that it can be assembled and dismantled in a quick and cost effective manner using the crane technology already available on the rig it's 'piggy backing' onto.

Making it possible – Hawke Connectors and the VDD 400.2

Hawke connectors have allowed for the easy installation and dismantling of the VDD 400.2. The InstrumEx and ControlEx's 'plug and play' feature combined with the fact that Hawke connectors can easily be disconnected by screwing their cover on makes the modular attachment and removal process safe and simple. As Robert Paternoster, who is responsible for electrical equipment at the Streicher Group, explains: "We could clamp all the cables in place, but this would generate two separate issues. As well as increasing the number of potential sources for a fault, it also leads to increased offshore wage costs."

Find out more about Hawke's Connector range at www.ehawke.com
or email steffen.hammon@jacob-gmbh.de or mogden@ehawke.com
To read more about the project head to www.harshandhazardous.com



KILLARK®

STANDING UP TO HAZARDOUS ENVIRONMENTS

KILLARK INTRODUCES THEIR NEW RANGE OF MC/MCX HAZARDOUS AREA CABLE GLANDS, DESIGNED TO TAKE THE PRESSURE IN SOME OF THE WORLD'S MOST SEVERE ENVIRONMENTS.



After a year of intensive research and development, Killark is delighted to announce an extension of their MC and MCX range of market leading Industrial Cable Glands to include Glands designed for use in hazardous areas. The range includes the MC straight Cable Gland which is now available in sizes of up to four inches. The MC has also been re-developed to make it submersion proof so that it withstands the pressure, even in some of the world's most arduous environments.

Alongside this, Killark's engineers have developed a new, patent pending, range of innovative 45 and 90 degree glands. The MCX19C and MCX14C glands have been designed to dramatically reduce costs and installation time in applications where there's a very tight installation space. The curved design of the MCX completely eliminates the need for additional accessories like elbows and nipples that would be needed with traditional, straight glands allowing for a one-step, easy process when space is an issue. The MCX's union collar also allows for a true 360 degree alignment without compromising the entry joint.

"This is a very exciting launch for us," commented Mike Schinner Jr, connections Product Manager for Killark, "the MC and MCX lines of Cable Glands are the product of our 100 year pedigree of creating products for hazardous areas combined with Hawke's industry leading experience in Cable Gland design. We wanted to make a series of glands that could not only stand up to the rigours of hazardous areas but could reduce installation times and costs for our customers and I really believe we've done that."

"The MC and MCX cable glands reduce installation times and costs for our customers."

Alongside the new range of Cable Glands and coming soon, Killark is also developing a damming solution which will utilise the formula of their recently launched sealing compound, CELOX™, to create a liquid resin that could finally replace putty compound solutions.

To find out more visit www.killark.com or email Mike Schinner Jr at mcschinner@hep.hubbell.com

FIBER OPTIC SP2



...HEAR THE DISTANCE

GAI-Tronics is pleased to announce the release of their SP2 Fiber Optic Stations! The SP2 serverless paging and intercom system that facilities worldwide have been raving about is now available with an option for native fiber optic connection. This allows customers to harness the lightning fast processing speeds of fiber optic technology in hazardous areas.

GAI-Tronics Corporation has been the world leader in harsh and hazardous communications for over 70 years. Our unrivaled experience in this industry enables us to develop solutions for any arduous environment - environments which may hinder efficient communication in the very places where it is needed the most. Our latest SP2 stations use fiber optic cable instead of traditional CAT5 to connect to an Ethernet switch. The key benefit of this update is that it increases the maximum switch-to-station distance from 330 feet to several miles! This edition makes it possible to expand an SP2 system to remote areas of your plant without expensive network additions. Plus, because this SP2 uses fiber technology, it allows for much faster and crystal clear communications over greater distances.

To ensure that every customer will benefit from the advantages of the Fiber Optic SP2, GAI-Tronics has designed this model to be compatible with CAT5 SP2 variants – allowing both variations to be used in the same system. Additionally, the SP2 fiber optic stations utilize industry-standard SFP modules - ensuring compatibility with a wide range of network equipment – making the installation process much simpler.

Learn more about Fiber optic SP2 Stations at www.gai-tronics.com or contact Stuart Foote on sfoote@gai-tronics.com
Join the Conversation @gai-tronics



AN INTERVIEW WITH DINA ADIB

We chat to Dina Adib, General Manager of Hubbell Distributors – Siraj Naybur, about her experiences working with Hubbell and about how her gender has never held her back in her career.

How long has Siraj Naybur been established for?

The company, Siraj Naybur, was formed in 2007 in the UAE and then we moved to Iraq and set up an Iraqi company there in 2012.

What has your experience as a woman in such a male dominated industry been like?

To be honest I've never given much thought to my gender at work, maybe because I was used to breaking 'rules' from my early days in the industry. Thanks to my father's encouragement I left Iraq in 1976 and went to the UK on my own where I studied Electrical and Electronic Engineering at Nottingham University when the male to female ratio was 10 to 1. Once I had completed my studies in 1979 I trained at the BBC Video News Department and was the first female engineer to work in that department. I just got on with my work. I suppose if I had given my gender too much thought I wouldn't have progressed very far!

I started flying into Iraq on business in 2009, and have been met with nothing but respect and admiration for being a female in my position. I always felt that the Iraqi clients focused on my qualifications and expertise; never on my gender.

When did you become a Hubbell distributor?

We got the distributorship back in 2007, when we were still based in Dubai but we saw business really take off when we moved to Iraq in 2012 and started keeping stock in the country.

How have you found working with Hubbell?

I have enjoyed, and been immensely proud of my association with Hubbell. I'm very impressed by the products and have always had excellent support from the factories and the regional office in Dubai. It's great selling such quality products, they speak for themselves really.

To find out more about Siraj Naybur visit www.sniraq.com or email Dina direct via d.adib@sniraq.com

Do you have an article you would like to submit to H&H Magazine? Get in touch with our editorial team via marketing@ehawke.com

BEATRICE

PROJECT UPDATE



FOLLOWING OUR INTRODUCTION TO THE BEATRICE OFFSHORE WINDFARM LTD. PROJECT LAST YEAR, WE'RE BACK TO TELL YOU WHAT IS ON THE HORIZON FOR 2018.

The hive of activity in the Outer Moray Firth is busier than ever as 2018 marks the year that Beatrice will yield its first generation of renewable electricity. At the close of 2017, the Stanislav Yudin heavy lifting vessel installed the final pile, signalling the completion of a key phase of the project. The Skagerrak, cable laying vessel began the mammoth task of laying export cable from the Moray coastline to the site of the wind farm, and most importantly, the first Hubbell products were installed!

Hubbell have supplied multiple products from their brand portfolio including Chalmit's Protecta LED and Solas luminaires, as well as thousands of Hawke's 501/453 Universal Cable Gland and their HKH

Control Station. Their installation on one of the World's largest Wind Farms is a testament to the engineering excellence of Hubbell and the exemplary performance of our extensive product range.

The farm is due to be fully operational by 2019, powering 450,000 homes, but the first harvest of renewable energy is expected in July this year. 2018 promises to be an exciting year for Scottish infrastructure and Hubbell Harsh & Hazardous couldn't be prouder to be part of this esteemed project.

Here's to a successful 2018!





INTRODUCING THE **EXBLT**

| MEET THE NEXT GENERATION OF BOLTED ENCLOSURES

KILLARK®

After 19 years leading the Enclosure industry, Killark are delighted to introduce the next generation of their best-selling EXB Enclosure.

“We’re very excited about this Enclosure” commented Mike Schinner, Killark’s Enclosures Product Manager. “The EXB has long been a customer favourite and we wanted to make sure that we kept all of the features that they know and love. Our aim with the EXBLT has been to strengthen an already tough Enclosure and make it easier to install and maintain. We believe we’ve achieved just that.”

The new enclosure utilises an aluminium flat plate cover for maximum strength and minimum cover bolts for fast installation. Customers may also still select the original EXB cast cover if they wish. All covers are supplied, as standard, with a Nitrile “O-ring” rating for IP66 and 64 Ingress Protection. They also have the industry desired bolt on bi-directional ductile

aluminium mounting lugs as opposed to the cast on lugs or the hammer in types offered by the competitors which can fall out or break during installation.

The EXBLT has also been tested to the latest standards for Quad Approvals. They are already certified for Class I, Div 1, Groups BCD, Class 1 Zone 1, IIB+H2, Class II Div. 1 Groups EFG Type 4 & 4X by UL / cUL and by CSA. ATEX, IECEx, CML and QPS certifications are scheduled for completion in April for Zones 1, 2, 21 and 22. The ambient temperature for ATEX, IECEx and CSA has now been broadened to an impressive -50°C to +70°C.

EXBLTs enclosures are now available with inventory located in Killark warehouses in St Louis Missouri and in Houston Texas. Killark’s development team have also started work on larger sized Enclosures for bigger applications, the launch for this is set for the end of 2018 so stay tuned!

Find out more at www.hubbell-killark.com or contact Mike Schinner via mschinner@hep.hubbell.com

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- Explosion proof Junction Boxes
- Exe Control Stations

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A NEW GENERATION OF

TRAIN COMMUNICATIONS



GAI-TRONICS HAVE RE-DEVELOPED THEIR TRADITIONAL TRAIN COMMUNICATIONS AND ARE PROUD TO INTRODUCE THE BRAND NEW IP TRAIN COMMUNICATIONS SYSTEM. DISCOVER ALL OF THE ADDITIONAL BENEFITS THAT THE NEW DESIGN OFFERS.

GAI-Tronics' range of on-board analogue train communications equipment is renowned within the rail industry for its reliability and quality. Installation began 30 years ago and the systems are still in use today – a testament to their longevity in demanding environments. Material obsolescence however means that GAI-Tronics are no longer able to provide replacement analogue systems.

After a lengthy design process, GAI-Tronics have created a new IP-Based train communications system. Combining the best features of the legacy system with new benefits, GAI-Tronics' new IP equipment offers a strong, reliable and cutting edge replacement for analogue systems. The decision to design a new solution developed following discussions with various train operating companies and rolling stock operating companies, looking for refurbishment options. The upgrade also comes as PRM-TSI standards have been reviewed, adding provision for wheelchairs, and ensuring that the new passenger information and assistance is accessible for all rail users. The evolved system lends itself perfectly to the new-build train market too, offering passengers and crew clear, reliable audio communications across the fleet via the Ethernet backbone.

The new IP communication system performs an array of functions including communications between the driver and guard, driver and control centre, passenger announcements, crew communications and disabled persons communications. Call for aid units in toilets and wheelchair areas now feature two-way speech to comply with PRM standards, giving passengers a means of communication with the train crew in the event of an emergency or if assistance is required.

Our IP system also features an audio interface to connect to Passenger Information Systems allowing audio messages to be synchronised with the data on visual displays. Each unit has an ambient noise monitoring software and automatically adjusts audio output levels according to the noise within the carriage at the time of the announcement. Ensuring that our system is reliable, audible and safe is where GAI-Tronics excels and this is why our products are installed around the world in some of the most arduous environments.

To find out more, contact Nicole Ireland via email:
nireland@gai-tronics.co.uk



DIGITALLY IMPROVING

OUR CUSTOMER EXPERIENCE

HUBBELL HARSH & HAZARDOUS ARE PROUD TO INTRODUCE THE NEW HUBBELL WEBSITE. DESIGNED WITH CUSTOMER EXPERIENCE AT ITS VERY CORE, THE NEW WEBSITE AIMS TO BETTER SERVE YOUR NEEDS.

Combining 80 websites into one Hubbell catalogue is a sleeker, easier way for customers to navigate across our brands and do business with us. The new website is bursting with new features like the Where to Buy, Blog Content, ETO tools like DesignHubb and much, much more. Customers can now access products from all Hubbell brands – in one place.

All of the Harsh & Hazardous brands also still have separate brand sites so if a customer wants a specific product like a Hawke Cable Gland or a Killark Enclosure they can still order it from there.

“At Hubbell, we’re constantly striving to find ways to better serve our customer,” says John Hastings, VP of Business Development and Product Management for Hubbell Harsh & Hazardous.

“Our enterprise and brand level approach not only provides our valued customers with access to view all Hubbell products on one site but still provides direct access to our market leading brands sites. Many new features make the ordering process so much easier for our customers. Our innovation won’t stop there. We’re constantly developing the website to make it the best it can possibly be, just stay tuned for more exciting updates coming soon.”



www.hubbell.com



ACCESS ALL OF THE MARKET LEADING HUBBELL BRANDS UNDER THE ONE DIGITAL ROOF WITH A NEW, USER FRIENDLY AND MODERN INTERFACE.

www.hubbell.com

TRADE SHOWS & EXHIBITIONS

2018 5018

GAI-TRONICS

ENTERPRISE CONNECT 2018
Orlando, Florida
March 12th - 15th, 2018
<https://www.enterpriseconnect.com/orlando>

INTERTRAFFIC
Amsterdam
March 20th - 23rd, 2018
<https://www.intertraffic.com/amsterdam>

ISC West 2018
Sands Expo - Las Vegas, NV
April 11th - 13th, 2018
<http://www.iscwest.com>

OTC 2018
NGR Park - Houston, TX
April 30th - May 3rd, 2018
<http://2018.otcnet.org>

PCIC Europe
Vienna
June 5th - 7th, 2018
www.pcic-europe.com

RAIL LIVE
Warwickshire, UK
June 21st - 22nd, 2018
<http://www.raillive.com>

ONS
Stavanger, Norway
August 27th - 30th, 2018
www.ons.no

PCIC USA
Cincinnati, USA
September 24th - 27th, 2018
<http://ieeepcic.com>

RVE
Derby, UK
October 4th, 2018
<http://www.rve-expo.co.uk>

PERMIAN BASIN SHOW
Odessa, TX
October 16th - 18th, 2018
www.pboilshow.org

OSEA
Singapore
November 27th - 29th, 2018
www.osea-asia.com

POWER-GEN INTERNATIONAL
Orlando, FL
December 4th - 6th, 2018
www.power-gen.com

CHALMIT

OTC 2018
NGR Park - Houston, TX
April 30th - May 3rd, 2018
<http://2018.otcnet.org>

ONS
Stavanger, Norway
August 27th - 30th, 2018
www.ons.no

OSEA
Singapore
November 27th - 29th, 2018
www.osea-asia.com

HAWKE

OTC 2018
NGR Park - Houston, TX
April 30th - May 3rd, 2018
<http://2018.otcnet.org>

INFRARAIL
Excel, London, UK
May 1st - 3rd, 2018
www.infrarail.com/2018

ONS
Stavanger, Norway
August 27th - 30th, 2018
www.ons.no

OSEA
Singapore
November 27th - 29th, 2018
www.osea-asia.com

KILLARK

ELECTRO EXPO
Cleveland, Ohio, USA
March 5, 2018
www.electroexpo.org

ELECTRICAL SAFETY WORKSHOP
Fort Worth, Texas, USA
March 19-23, 2018
<http://ewh.ieee.org/cmte/ias-esw/>

IMARK
Rosemont, Illinois, USA
March 20-22, 2018
<http://dtgworldwide.com/2016/03/21/2016-imark-showcase/>

GEAPS EXCHANGE 2018
Denver, Colorado, USA
March 24-27, 2018
exchange.geaps.com

FASTENAL EXPO
Nashville, Tennessee, USA
April 17-19, 2018
<http://tradeshows.fastenal.com/>

UPPER MIDWEST ELECTRICAL EXPO
Minneapolis, Minnesota, USA
April 18-19, 2018
10times.com/upper-midwest-electrical

OTC 2018
NGR Park - Houston, Texas, USA
April 30 - May 3, 2018
<http://2018.otcnet.org>

ASI TECH EXPO
Chicago, Illinois, USA
July 24-26, 2018
www.asishow.com/shows/2018/chicago/

ONS
Stavanger, Norway
August 27-30, 2018
www.ons.no

PCIC USA
Cincinnati, Ohio, USA
September 24-27, 2018
<http://2018conference.ieeepcic.com/>

PERMIAN BASIN INTERNATIONAL OIL SHOW
Odessa, Texas, USA
October 16-18, 2018
www.pboilshow.org

OSEA
Singapore
November 27-29, 2018
www.osea-asia.com



Come say hello to us and see our products first hand at the various trade shows that we will attend throughout the year. For the most up to date information go to www.harshandhazardous.com/exhibitions



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The Hubbell Harsh & Hazardous family brings together 7 best in class brands.
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Telecommunications and more choose **Hubbell Harsh & Hazardous.**