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Health, Safety & Security Review

Middle East

VOLUME 5 | ISSUE 1 2019

ELECTRICAL SAFETY

Protecting against arc faults

INSIDE...

Selecting safety eyewear

Wireless access control

The latest in gas detection

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editor's note

IN THIS ISSUE, we focus on electrical safety, with electrical faults being a common cause of fires and explosions in the Middle East. We provide some advice on reducing the risk of arc faults on p24 and a case study illustrating the benefits of ester transformer fluid on p25.

Our Intersec preview (p18) shows you what to expect at this year's edition of the leading global security, safety and fire safety show, while our Equipment and Innovations sections feature the latest in gas detection, protective eyewear and safety footwear.

Louise Waters, Editor

Editor: Louise Waters

Email: louise.waters@alaincharles.com

Editorial and Design Team: Prashant AP, Hiriyti Bairu Miriam Brtkova, Praveen CP, Manojkumar K Nonalynka Nongrum, Rhonita Patnaik Samantha Payne, Rahul Puthenveedu and Deblina Roy

Managing Editor: Georgia Lewis

Magazine Sales Manager: Richard Rozelaar
Tel: +44 20 7834 7676 Fax: +44 20 7973 0076
Email: richard.rozelaar@alaincharles.com

Head Office:

Alain Charles Publishing Ltd, University House,
11-13 Lower Grosvenor Place, London SW1W 0EX, UK
Tel: +44 20 7834 7676, Fax: +44 20 7973 0076

Middle East Regional Office:

Alain Charles Middle East FZ-LLC,
Office L2-112, Loft Office 2, Entrance B,
PO Box 502207, Dubai Media City, UAE
Tel: +971 4 448 9260, Fax: +971 4 448 9261

Production: Srinidhi Chikkars, Infant Prakash and Nelly Mendes
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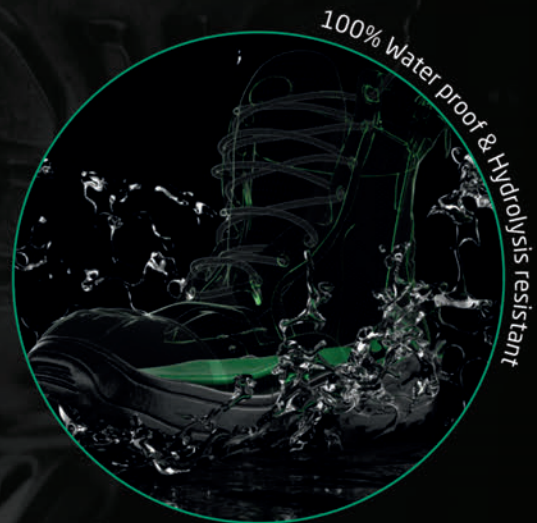
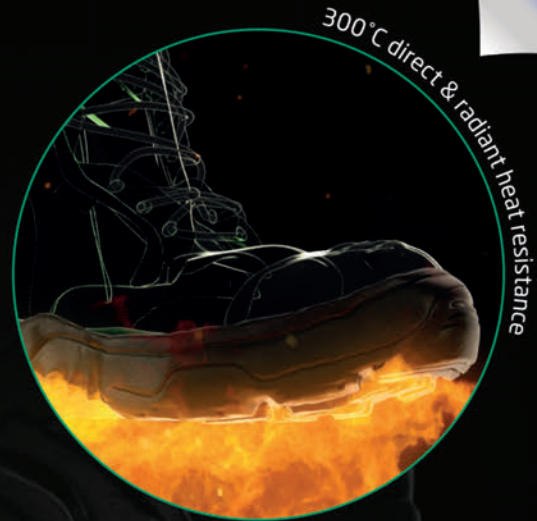
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ENGINEERED TO OUTPERFORM, OUTLAST, OUTDELIVER...

Five top security trends in 2019

Security

Johan Paulsson, chief technology officer at Axis Communications, has discussed the top five physical security trends in 2019.

The implementation of the EU's General Data Protection Regulation (GDPR) and Directive on the security of network and information systems (NIS Directive) has left everyone in no doubt that cybersecurity must become a priority in the new digitally connected landscape.

Axis Communications has listed five top technology trends for the year ahead:

Artificial intelligence (AI) - Progress in AI differs from industry to industry. While in the physical security sector AI is not commonplace, machine or deep learning technology is being increasingly used to deploy smart video analytics tools.

The use of such technology will increase in 2019 which will not only have a significant impact on improving firms' security but also help them derive intelligent insights from the data collected by network-connected security systems.

Cloud and edge computing - As the use of Internet of Things (IoT) devices grow, so does the amount of data generated that requires storage.

The rise of edge computing is putting more data processing at the 'edge' of the network, close to where the data is collected by a video camera or access control device. This can significantly reduce bandwidth and storage demands, and the data can be anonymised and encrypted before it is transferred to secure data centres.

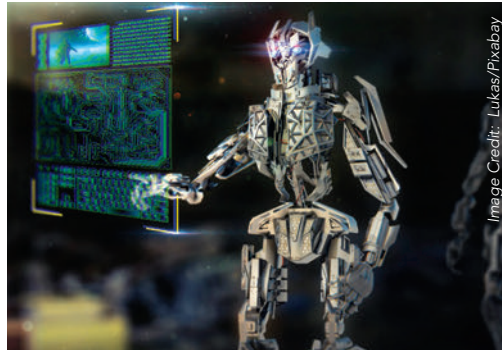


Image Credit: Lukas/Pixabay

Johan Paulsson has indulged in a spot of future gazing to determine what technologies will enable businesses to work smarter and safer, increase intelligence and become more environmentally friendly.

Personalisation vs. privacy - Trust is considered an important and tangible asset, with concerns about a company's approach to privacy and the use of personal data one of 2019's vital trends.

Cybersecurity - To combat the threat, supply chain security must be prioritised in 2019. Manufacturers must work with suppliers that adhere to the same security principles they do, and installers and integrators must ensure systems that are deployed are done so in the most secure manner possible.

Delivering environmental benefits

Smart sensors will play a central role in addressing the problem globally. In a smart city, an environmental sensor could trigger a video or thermal camera to quickly identify fires or spillages, prompting alerts to create a more rapid and effective response.

US\$82mn expansion project for Abu Dhabi hospital

Health

United Eastern Medical Services (UEMedical) has announced the second phase of the expansion project of its Danat Al Emarat Hospital for women and children in Abu Dhabi.

This phase will include the construction of a new tower with a capacity of 100 beds, at a total cost of US\$82mn, as reported by TradeArabia.

The source said that the new tower will be adjacent to the current hospital building located in Abu Dhabi Gate City and will be operational by mid-2020.

The project has been designed by American architectural firm HKS.

Mohamed Hamad Al Hameli, undersecretary of Department of Health Abu Dhabi (DoH), stated, "The Department of Health supports expansions of services and operational facilities that are aligned with the current market needs and in line with the capacity gaps study that was published by DoH recently which identifies the most needed medical services in Abu Dhabi."

NIT signs distribution agreement with IDIS for MEA region

Technology

NIT, an Ingram Micro Company, has signed a distribution agreement with IDIS, manufacturers of security and surveillance technology in South Korea.

With this agreement, IDIS's full range of surveillance solutions will now be available across the Middle East and Africa (MEA) through NIT.

Bassel Al Fakir, managing director of NIT,

said, "Our new alliance with IDIS provides significant opportunities for our company to build an end-to-end cost-effective surveillance solution which can suit different vertical markets."

"IDIS advanced plug-and-play video technologies will open up great new profit opportunities for our resellers," he added.

The products include a line-up of powerful IP cameras and NVRs, as well as a choice of

video management software (VMS) including the totally cost-free IDIS Centre and the award-winning IDIS Solution Suite that is both modular and scalable in design, making it suitable for multi-site deployments and large enterprise-level applications.

It also offers an optimised HD surveillance solution, IDIS DirectIP that is based on a highly secure IP framework, consisting of cameras, NVRs, network equipment and others.

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Julien COUCHOURON

Protection & Security Project Manager
julien.couchouron@businessfrance.fr

Sidi ACHOUCHI

Head of Industry & Cleantech
sidi.achouchi@businessfrance.fr

Miryen

Head of
miryen@businessfrance.fr

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DHA unveils details of Dubai Health Forum 2019

Health

The Dubai Health Authority (DHA) has announced in a press conference the details of the third edition of the Dubai Health Forum 2019 (DHF), which will take place from 21-22 January.

Held under the patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice-President and Prime Minister of the UAE and Ruler of Dubai, the forum is expected to attract 1,500 attendees who will benefit from the 62 sessions by 42 speakers and moderators from 15 countries.

In addition to discussing the latest innovations in health, DHF will be introducing its first-ever Health Hackathon, "The Dubai Health Hack," which is set to last for 30 hours round the clock. The hackathon will focus on discovering solutions for people of determination. Hackers will be invited to develop solutions that ease the day-to-day lives of people of determination.

Humaid Al Qutami, director general of the DHA, said, "The



Dubai Health Forum, organised by the Dubai Health Authority, has successfully positioned itself as an international summit where health professionals, specialists and leaders meet to discuss the latest medical advancements, professional practices, techniques and research."

"The forum aims to reinforce the efforts of the DHA to achieve its goal of reaching a healthier and happier society. It hopes to achieve this by learning from ideas, knowledge and experiences shared by experts and scientists in the forum and adopting them in

the UAE," he added.

Dr Manal Taryam, CEO of the Primary Healthcare Sector at the DHA and president of the forum said that DHF will see 42 international speakers from global organisations such as World Bank, NASA, IBM and the organisation for economic cooperation and development.

They will touch on different topics such as gender balance, universal health coverage, patient centricity, health financing, quantum computing in health, AI in genomics, blockchain technology in health regulation and others.

Child safety and care practices

Safety

Aster S.H.I.E.L.D event in Dubai brought together 90 children and their families from different countries to discuss child safety and care practices.

Aster Safe Handy Information Eliminates Likely Dangers (S.H.I.E.L.D) is a corporate social responsibility initiative of Aster Hospitals, the UAE, and a combined venture of Aster Nurture and Aster Volunteers.

Dr Sherbaz Bichu, CEO of Aster Hospitals, the UAE and specialist in anesthesia at Aster Hospital, Mankhool and Sarah Illyas Tony David, chief nursing officer, Aster Hospitals, led a team of internal and external volunteers in educating parents and caregivers at the event.

Specialists from Aster Hospitals touched upon various aspects of a child's health and safety by exploring the topics of paediatrics, ENT and dentistry along with awareness sessions on basic life support, nutrition and first aid.

The team also hosted an open forum between the attendees and the specialist panellists to discuss key topics.

RugGear's new powerful outdoor smartphone

Technology

RugGear, one of the leading manufacturers of rugged mobile devices, is expanding its range of outdoor smartphones with the RG650.

The outdoor smartphone with Android 8.1 (Oreo) has a 5.5 inch 18:9 HD+ "Edge-to-edge" display. In addition, the RG650 meets not only the IP68 standard but also the military standard MIL-STD 810G and is therefore protected against all kinds of liquids, dust, oil mist, vibrations, shocks and even drops from

up to 1.5 meters on concrete. The display has a high luminosity (>500 Nits) and can be used outdoors in strong sunlight. Equipped with a powerful speaker (approx. 95dB@10cm), the RG650 is ideal for use on noisy construction sites, for outdoor sports or at festivals.

According to the company, RG650 features industrial PTT accreditation and is compatible with mainstream PTT solutions in the market such as Motorola's Kodiak.

Rugged phones are evolving from niche

products to all-in-one devices for everyday use. According to IDC market research, more than 95mn smartphones are damaged by crashes every year. This is immediately followed by moisture damage. The bottom line: damage to smartphones is worth almost US\$30bn.

The use of a special polycarbonate mixture for the housing and specially arranged crash zones to dissipate the impact energy helps to protect the sensitive electronics from impacts and vibrations.

→ events calendar 2019

January

20-22 **Intersec** DUBAI www.intersecexpo.com

February

19-21 **Petroenvironment** AL KHOBAR www.petroenvironment.org

March

5-7 **Middle East Electricity** DUBAI www.middleeastelectricity.com

18-21 **MEOS** MANAMA www.meos19.com

25-26 **Gulf Safety Forum** MANAMA www.europetro.com

April

14-15 **HSE Forum Bahrain** MANAMA www.hse-forum.com

14-16 **Intersec Saudi Arabia** JEDDAH www.intersec-ksa.com

June

18-20 **Safety & Health Expo** LONDON www.safety-health-expo.com

Readers should verify dates and location with sponsoring organisations, as this information is sometimes subject to change.

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Worker well-being and safety for business growth

The 4th Annual Health, Safety & Security Forum, the latest in the highly acclaimed annual event series, took place in Dubai from 27-28 November.

“A healthy workplace is as good for business as it is for the individuals working there.”

Dr Ola Ahmed Mira, director - OHS and head, UAE Ministry of Health & Prevention

A panel session underway. From left: Dr Rehab Al Ameri, ESMA; Dr Ola Mira, UAE Ministry of Health & Prevention; Eng. Raed Al Marzooqi, Dubai Municipality; Mohammed Suweidan Al Ameri, ADNOC; Hafidh Masoud Al Zaraei, Dubai Civil Aviation Authority.



Image Credit: Alain Chares Publishing

Worker well-being was the core theme of the 4th Annual HSS Forum, committed to promoting health and safety across all sectors in the UAE. Held under the patronage of the UAE Ministry of Health & Prevention, it was researched and developed by *Health, Safety & Security Review Middle East* magazine.

Day 1 began with a keynote presentation from Dr Ola Ahmed Mira, director – OHS and head UAE Ministry of Health and Prevention. To ensure better business practices, she advised participating organisations to invest in employee health to create a resilient and productive

workforce, adding that today's work environment has a big impact on employee health. Therefore, it is critical to follow employee health initiatives and put them first. She also mentioned that the UAE government supports wellness initiatives such as ergonomics training programmes onsite. “A healthy workplace is as good for business as it is for the individuals working there,” she concluded.

During summer, Dubai records high temperatures, but the show must go on. Emirates Global Aluminium (EGA) is one of the biggest aluminium producers in the world. EGA is addressing the

challenge of working in a hot and humid environment and preventing heat related illness at both an organisational and personal level, through measures such as awareness and monitoring programmes, promoting fitness and acclimatisation, hydration maintenance and fatigue prevention. According to EGA's executive V-P, HSSEQ and Business Transformation Salman Dawood Abdulla, the producer invests a great deal in technology and data collection methodology to regularly monitor HSE standards in the organisation. “EGA to date continues to achieve and sustain zero harm to workers.”

Safety Strategies

Working at height

Eng. Raed Al Marzooqi, Head of Occupational Health & Safety Section, Health & Safety Department, Dubai Municipality, commented, "Falls from height continue to pose serious risks to the health and safety of workers worldwide," adding that heat stress is a hidden issue in the UAE, particularly in the summer months. He spoke about the Dubai government's efforts to make working at a height safe. "Efforts must be taken by project managers to ensure that equipment used is certified and faultless." In particular, they should avoid using defective formwork and scaffolding and make sure external protection or

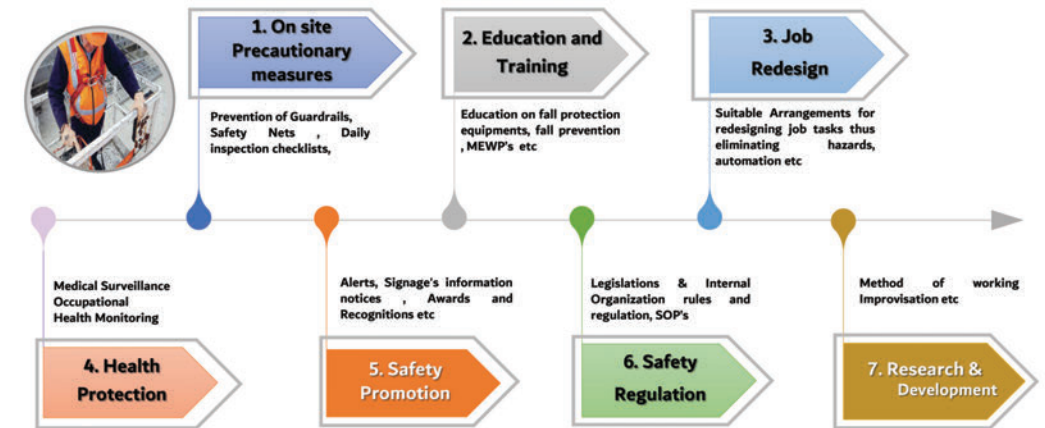


Image Credit: Dubai Municipality

safety nets are available on facades to prevent falls. He added that many organisations still need to strategise their HSE norms, follow safety regulations and redesign job practices. A wide range of measures can be employed to prevent and mitigate

falls from height, such as controlled access zones, effective signage, professionally set up platforms and access equipment, equipment such as harnesses and fall arrest systems, training, ergonomics etc.

Getting to safety during an

incident is a priority. But how do you get to safety safely? The global leader in evacuation chairs Evac+Chair's general manager Gary Hicks demonstrated the concept with case studies from the 2001 World Trade Centre incident. He concluded with

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recommendations such as having a designated responsible person, conducting risk assessments, having well devised evacuation strategies, paying attention to practice and training, taking into account mobility-impaired people, and recognising the importance of communication.

Moving to the oil and gas sector, Mohammed Suwaidan Al Ameri, manager – HSE Compliance and Assurance Dept at ADNOC, discussed ADNOC's continuous efforts to achieve the industry benchmark for HSE globally and its roadmap for 100 per cent HSE. Plans for 2019 include HSE contests, 100% no complacency programme, safety leadership and future leaders programme, and various video awareness campaigns. However, he also said that the goal can only be realised if we have data to record incidents. Right now such data sets are not available in the UAE. But he added that efforts are ongoing to improve employee wellbeing every day at ADNOC.

To address the data collection challenges, Akrivia has introduced an IoT-based health and safety management solution to meet the HSE needs. It can assist in incident reporting, cause analysis, corrective and preventive measures. Nikhil Bhat, Manager Business Operations, explained that it is a cloud-based solution and can be used on premises with a dedicated server.

Jorge Manuel Miranda Dias, Professor, Electrical and Computer, Khalifa University, Abu Dhabi, gave an overview about the use of video surveillance for crowd management that in turn can help in behaviour analysis of individuals.

Day 1 concluded with a presentation from Qasem Niureddin, regional sales director,

Operational Excellence

The Framework and its Pillars



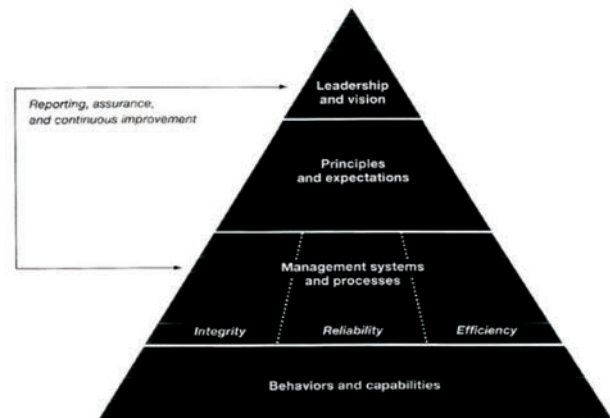
Exhibit 1
Key elements of an OE framework

Framework for Operational Excellence

Creates a Value Proposition for Organizations

The Pillars are:

- **Integrity** – Stands the Test of Time
- **Reliability** – Will perform without fail
- **Efficiency** – Will bring value – More with Less



Adapted: Strategy&/PwC – From Compliance to Commitment - Taking Pride for Operational Excellence

Image Credit: ENOC

Life Safety Division, Eaton. The electrical company is bringing new products in compliance with the latest safety standards. Its adaptive signages for building evacuations direct people out through the safest route for faster and safer evacuation.

Day 2 centred on the different types of methodologies, safety operations and systems that the industry can adopt to achieve worker well-being in the UAE.

It started with a workshop focused on occupational health and safety services in the UAE, covering a wide array of topics.

Operational Excellence Management Systems

Dr Waddah S Ghanem, senior director – Sustainability, Operational and Business Excellence, ENOC, gave a keynote presentation on Operational Excellence Management Systems. He stated that the management of most organisations may not accept the root cause of an incident, especially if it is the lack of proper maintenance or preventive maintenance by their

department that caused the failure. He discussed the characteristics of high reliability organisations (HROs) and the link between organisational maturity, leadership commitment and strong systems implemented with discipline. The first step to becoming a High Reliable Organisation (HRO) is to acknowledge the problem and resolve it. "HRO operates on safety, efficiency and reliability. True operational excellence may not be achieved, operational excellence is not a goal, it is a journey, a journey of excellence, and to maintain that excellence we need reliability."

According to Shaun Hannam, head of Safety International Airport Operations, Emirates Group, "Safety should be simplified. The organisation needs to identify unsafe conditions and unsafe acts (fatigue, inappropriate use of equipment) and create a safe place for an employee. Simplifying an operational approach is more than auditing on paper, it is to focus on the

individual and achieve a safe zone for the employee."

Peter Ellis, IPAF Middle East regional council vice chairman, spoke about how reporting an incident is an important step in keeping employees safe in the future. A MEWP analysis of 2013-2015 showed that fall from height is the highest fatal accident reported and entrapment is on the rise, with three incidents reported in the UAE.

What if incidents can be predicted? Christine Adeline, Global EHS product manager, SAI Global, discussed how data collection of incidents and analysing them can help provide better insights to managing hazards and risks while identifying, monitoring, analysing and reporting on EHS performance.

The Forum ended with a panel discussion on AI versus the human workforce, where loss of traditional jobs and the use of AI technology in hazardous environments to safeguard the human workforce were among the topics discussed. ♦

Leaders in pre-hospital equipment

ARASCA Medical Equipment Trading LLC, the UAE-based supplier of pre-hospital medical equipment, is playing a leading role in promoting public care and safety.

What do you think is the level of awareness in the UAE and the Middle East of the need to have the correct pre-hospital medical equipment available in workplaces and public places?

It has been more than 11 years since we have established our presence in this market, since when we have seen market awareness grow drastically. Employers are now proactive in maximising awareness among their employees, by providing the optimal basic life support (BLS) training, which has now become a mandate in all sectors across the emirates.

As ARASCA, our sole focus has been to widen the need for pre-hospital equipment, and as a one stop solution for the same, we are overjoyed to have contributed to this growth. With that in mind, we encourage that more people are trained to use emergency pre-hospital equipment. We are very active in creating public awareness by participating in events and exhibitions. One of our recent achievements was the Guinness world record created in Dubai on 4 December 2018 for the “most nationalities in a CPR relay”, with a total of 104 nationalities. This was done in collaboration with Dubai Health Authority and Philips.

How do you view the market for your equipment in the Middle East? Are there any products that are proving particularly popular, or that you are focusing on?

While there is a wide range of equipment providers in this sector, we are the sole representatives of 16 multinational partners,



Image Credit: Alain Charles Publishing

with quality products that particularly belong to the pre-hospital sector. We have worked with Dubai Tourism Department to focus on the necessity of having automatic external defibrillators (AEDs) and first aid kits in hotels, resorts etc. so they can assist their visitors as promptly as possible. These products have therefore gained a lot of popularity in the recent past.

How important is innovation to ARASCA, and how receptive do you think the market is to new and innovative products?

ARASCA has been radical in initiating the PAD (Public Access Defibrillator) programme, which is to place AEDs all around the UAE to help save lives in the event of a sudden cardiac arrest. We have also introduced products such as Evacuation chairs, and we are now launching our newest innovative product relating to isolation and emergency care,

EPishuttle, which is used to isolate the patient in order to avoid the spread of disease. We always look out for and encourage innovative solutions, and right now we are focusing on elevating the pre-hospital sector to keep up with the Smart World, for example, our recent addition has been the exclusive Smart Monitoring solution – SmartLink, used for the monitoring of Philips AEDs.

What do you think is the secret of your success? What sets you apart from your competitors?

Our commitment to quality products based on customer needs is the key to our success. We give priority to customer satisfaction and do not compromise on quality. We have dedicated aftersales service engineers who check our products and offer free aftersales. Not only that, we provide free training and orientation to our clients on Philips AEDs as well as on all our other products. ♦



Intersec to bring together top industry players

Image Credit: Messe Frankfurt

The Middle East is proving to be a hotbed of business for global suppliers of security, safety and fire protection, with the world's top industry players set to converge at Intersec 2019 in Dubai to drive more double digit growth.

“Many of our system integration partnerships resulted from engagement and introductions made at Intersec.”

Harary Kwon, general manager of
IDIS Middle East & Africa

Intersec 2019 will feature more than 1,300 exhibitors from 60 countries.

From video surveillance technologies with Artificial Intelligence and deep learning capabilities, to cloud-based access control solutions and flame retardant protective clothing, Intersec 2019 will shine the spotlight on game changing solutions solving challenges faced by professionals spanning sectors from banking and retail, to infrastructure and energy.

The 21st edition takes place from 20-22 January 2019, with more than 1,300 exhibitors from 60 countries spanning 50,000sq m of space at the Dubai International Convention and Exhibition Centre.

Intersec 2019 covers the seven sections of Commercial Security; Fire & Rescue; Perimeter & Physical Security; Safety & Health; Homeland Security & Policing;

Information Security; and Smart Home & Building Automation.

Commercial Security will be the largest section on the exhibition floor, with more than 450 exhibitors, including two-thirds of the world's top 50 commercial security providers. Fire & Rescue is the next largest section, with more than 400 exhibitors, followed by Safety & Health (150 exhibitors), Homeland Security & Policing (100 exhibitors), Perimeter and Physical Security (100 exhibitors) and Information Security (50).

Korean company IDIS, one of the world's top surveillance technology manufacturers, is a regular Intersec exhibitor that's hitting double digit year-on-year sales growth in the Middle East, a position that it largely attributes to contacts made at the annual

three-day event.

“Many of our system integration partnerships resulted from engagement and introductions made at Intersec and we can track this back since our first appearance at the show in 2014,” said Harry Kwon, general manager of IDIS Middle East and Africa.

“These include Almajal G4S in KSA, Almoayyed in Bahrain and EMS in Egypt to name but a few. The result is an extensive and broad range of successful deployments of IDIS technology across government, education, retail, banking and many other commercial organisations.

“We're hitting double digit sales growth year-on-year and continuing to increase our market share and geographical reach by expanding our sales

channels,” added Kwon.

Kwon said IDIS will look to up the ante with a series of new product launches at Intersec 2019, including the latest iteration of its IDIS Deep Learning Analytics (IDLA) Engine.

Elsewhere, Matrix Comsec from India is one of more than 50 exhibitors at Intersec’s Information Security section that will look to capitalise on opportunities in a Middle East cyber security market estimated to grow at a compound annual growth rate of 11 per cent from 2018-2024.

According to analysts 6Wresearch, revenues from the Middle East information security market will reach

US\$2.7bn in 2024, compared to US\$1.4bn in 2018.

With the cloud playing an increasingly important role in the storage and processing of important data, Abhay Joshi, global sales head at Matrix Comsec, said Middle East organisations are taking measures to adopt high-end solutions that prevent unauthorised access and cyber-breaches.

“Organisational data is the most important resource that companies have, so firms are opting for secure cloud-based solutions,” said Joshi. “At Intersec 2019, we’ll launch our cloud based Time-Attendance and Access Control solution COSEC VYOM.”

A revamped conference line-up will be spearheaded by the

Intersec Future Security Summit, raising key issues on Artificial Intelligence, security integration, emergency preparedness and response, data protection, and the Internet of Things.

The one-day Intersec Fire Conference on 21st January will provide insights into the changing global trends in fire protection and its implications on the Middle East, while Dubai’s Security Industry Regulatory Agency (SIRA) Forum will also return with the latest updates in security law and industry regulations in Dubai.

Returning popular features to Intersec 2019 include the Drone Zone, an Outdoor Demo Area, a Smart Home Pavilion and the Safety Design in Buildings

Pavilion. More than 150 exhibitors will also participate for the first time, while Canada, China, Czech Republic, France, Germany, Hong Kong, India, Italy, Korea, Pakistan, Singapore, Taiwan, UK, and the USA comprise the 14 country pavilions.

Intersec is organised by Messe Frankfurt Middle East and held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum. Official supporters include the Dubai Police, Dubai Civil Defence, Dubai Police Academy, Dubai Municipality, and the Security Industry Regulatory Agency (SIRA). ♦

More information is available at: www.intersecexpo.com.



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French expertise on display at Intersec

Business France will be hosting two national pavilions at Intersec, in Hall 2 (Commercial Security) and Hall 4 (Fire & Rescue).



Image Credit: Business France

“France’s security sector accounts for 151,000 jobs and 4,000 companies, 50 per cent of which export their products.”

Intersec will feature a strong French industrial presence.

Middle Eastern countries are particularly attractive markets for the security sector, and are expected to grow by around 10 per cent per year over the period 2018-2022. French expertise plays a significant role in protecting the region’s people and strategic infrastructure. The show will feature a strong French industrial presence, with 18 French experts gathered on the French pavilions.

The French security sector represents a turnover of 29bn euros (CoFIS 2016 data), split between physical equipment and platforms (10.8bn euros), electronic and digital products (12.5bn euros) and cybersecurity products and services (5.7bn euros). The sector accounts for 151,000 jobs and 4,000 companies, 50 per cent of which export their products. The sector is home to a number of major corporations, undisputed leaders in their sectors, along with a large number of SMEs in highly specialised sectors such as digital security, anti-fraud, communication, connected objects, video-surveillance, detection, firefighting,

protection equipment and specialist vehicles. French security industries are part of a crucial high added value sector with technical skills recognised abroad, and are among the most efficient in terms of exports. Export sales for the industrial security sector, which includes 13 French multinational companies, amount to 13bn euros.

France offers, in particular:

- Strong leadership in the area of skills that range from mathematics and algorithms, to imaging software, identification and cybersecurity
- Innovation and initiative-taking abilities, research and a network of cutting-edge laboratories
- Outstanding engineering skills and industrial processes stemming from the worlds of defense (radar, integration, etc.) and digital technology (biometrics, smart cards, etc.) ♦

For more information contact Miryem Oukas Messidi, mobile: +971 (0)55 478 32 15, email : miryem.oukasmessidi@businessfrance.fr.



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ULTITEC protective clothing with motto 'Act without fear'

Protective clothing

ULTITEC is taking part in Intersec 2019 to introduce its industrial protective clothing to more potential users in Middle East region, with the mission of "Allow every front-line operator to get home safely and resume working the next day".

The company will focus on its ULTITEC 4000 and ULTITEC 5000 protective clothing. ULTITEC 4000, a fully liquid-proof coverall providing an effective shield against various chemicals, liquid jets, infective agents and leaking fuel, is approved and widely used, winning the tender to be applied in PETRONAS Malaysia, one of the world's largest and most forward-looking oil and gas producers. While ULTITEC 5000 is its high-level chemical and liquid jet resistant coverall.

In addition, ULTITEC 1000L is being supplied continuously for Shell franchises in other countries. ULTITEC 1000FR (dust, light liquid spray and flame-retardant protective clothing), and ULTITEC 2000 (dust, liquid splash and infective agent resistant protective clothing) have been widely used. The unique fabric technology of microporous film which provides good breathability is perfectly suitable for the excessive heat working environment in Middle East regions. It can prevent occupational heat exposure as the microporous size is smaller than a water drop and larger than moisture vapour, which offers exceptional comfort without compromising superior protection.

ULTITEC is a pioneer in Taiwan's non-woven industry, with nearly 26 years of development and manufacturing experience. With its name originating from the words "ULTIMATE" and "PROTECTION" it believes it can achieve the original intention of "Act without fear!". Users of its protective clothing include Qatar Gas, Shell, ExxonMobil and ADNOC, who were equipped with ULTITEC 1000FR, ULTITEC 2000 and ULTITEC 4000 for their daily maintenance tasks. ULTITEC is



Image Credit: ULTITEC

mainly targeted on the oil and gas industry (piping engineering, offshore platform construction, offshore oil rigs etc.), aviation (Qatar Airways, Emirates Airline), construction and automobile sectors in the Middle East region.

Due to international certified safety standards, high performance and breathable comfortability, ULTITEC has been used in international rescue activities such as natural gas plant asbestos removal in Turkey, oil spill clean-up for the Gulf of Thailand and avian influenza culling in Taiwan. It is currently marketing products and services to 40 countries and regions to meet the needs of occupational safety and health, with partners in 24 countries or regions in the Middle East and Asia. ULTITEC celebrated its 10th anniversary in 2018 and intends to continue to grow steadily, providing quality internationally-acclaimed products and professional service.

Matrix Comsec to launch next generation door controller at Intersec

Access control

Matrix will be launching its new door controller and exhibiting its time-attendance, access control and video surveillance solutions at Intersec.

Matrix's indigenous and innovative range of solutions for IP video surveillance, access control, time-attendance and unified communications are specifically designed for large, multi-location enterprises, SME and SMB organisations. Overall, Matrix is focused on new generation technologies such as video analytics, AI, deep learning, Cloud, etc.

Matrix Comsec will launch COSEC ARGO – the next generation door controller with a blend of performance and aesthetics. The

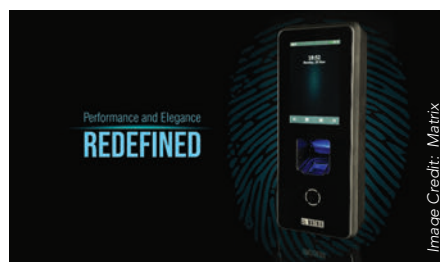


Image Credit: Matrix

The new door controller offers all the latest features.

door controller is equipped with features like 3.5" IPS touchscreen LCD with gorilla glass, elegant aesthetic with full frontal glass, open connectivity with Ethernet, Wi-Fi, BLE, USB, PoE, ultrafast fingerprint identification (2x

fast sensor), wall and flush mount options, simple and clean installation with minimum wiring, intuitive user experience, vandal resistant enclosure with IK08, and suitable for outdoor applications with IP65. It benefits organisations with reduced user verification time, higher security, versatility, improved productivity, low IT infrastructure cost, future proof, flexibility, etc. Additionally, the device comes with higher processing speed, wall and flush mounting options, and increased fingerprint and event storage capacity, further enhancing its efficiency.

Matrix will demonstrate live working of COSEC ARGO at the show on Stand S1-D28.

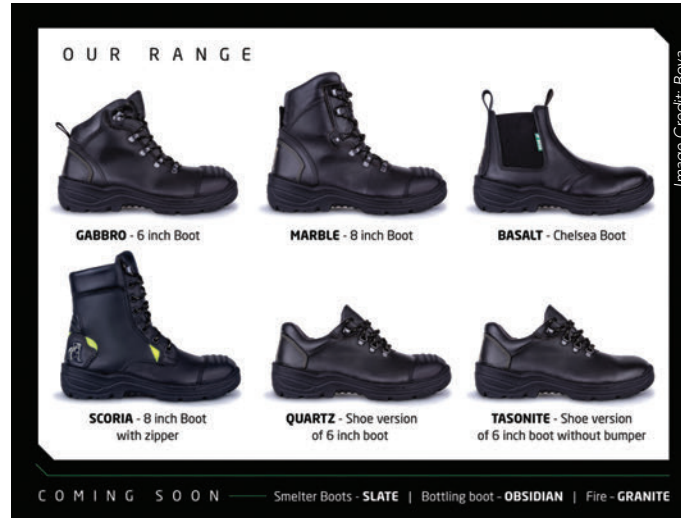
Bova introduces the next evolution in safety footwear

Safety footwear

Bova has earned a reputation for offering safety footwear that is engineered for purpose. Rather than a one-size-fits-all approach, the brand designs products that address the specific safety needs of the environments and applications in which they will be used. True to its commitment of engineering for purpose, Bova has introduced Dual Compound Rubber (DCR) soling technology to its product range.

Bova DCR is an innovative soling technology whereby two different layers of rubber are directly injected, creating a superior bond between the outsole, midsole and upper. The outer sole is manufactured from durable, high density, nitrile rubber whilst the midsole comprises a lower density, lightweight rubber.

Traditional rubber soling methods often make use of single density rubber or stuck-on sole units. This method of manufacturing often compromises on comfort,



durability and weight, whereas safety footwear manufactured utilising Bova DCR technology is extremely durable, comfortable and flexible as well as lighter in weight. The comfort and weight advantages of Bova DCR are even comparable to those of direct injected polyurethane/rubber soling units. Rubber is also not susceptible to hydrolyses, often associated with polyurethane soled footwear.

The investment and skill involved in perfecting its Dual Compound Rubber technology and manufacturing processes makes Bova one of only a handful of brands worldwide able to manufacture safety footwear of this kind, and the only one within Africa to introduce this technology, reinforcing its position as the leader in safety footwear in Africa.

Bova DCR safety footwear

delivers greater safety performance and durability in harsh environments without compromising on comfort.

DCR offers the following benefits:

- 300°C direct and radiant heat resistance
- Superior slip resistance
- Superior resistance against acids, oils and chemicals
- Superior abrasion resistance
- 100 per cent waterproof, hydrolysis resistant sole
- Shock absorbency on impact
- Anti-static.

Suitable applications include oil and gas, tarmac and asphalt, construction, mining, engineering, heavy manufacturing, smelting and military.

The DCR footwear range is set to launch on 1 April 2019.

For more information, contact Bova, tel: +27 31 710 0400 fax: +27 31 700 2607 Email: info@bbfsafety.com Website: www.bova.co.za

Axis Communications returns to Intersec

Security cameras

Axis Communications is returning to Intersec and will showcase the many dimensions of products, solutions and services across Retail, Critical Infrastructure and Smart Cities.

Philippe Kubbinga, regional director - Middle East & Africa, Axis Communications, said, "At Axis, we have stayed at the forefront by constantly challenging the status quo and investing in our people and our partners. As we move into another year, we have an ever-increasing demand for smart products, solutions and services. In the last year,

network audio, edge analytics, multi-sensors and privacy of data dominated in demand, conversations and actual applications – trends we deem very positive for our industry. We have continued to add new dimensions in our offerings across Retail, Critical Infrastructure and are also seeing a positive trend in Smart Cities. At Intersec 2019, we look forward to an in-depth conversation with our ecosystem on the future of security and surveillance, and its constantly adapting landscape and application."

Martin Gren, co-founder of Axis Communications, will be a key speaker at the Intersec Future Security Summit on 20th January 2019 where he will discuss "Future of global security industry: security end points viewed as a mode of connection, not an intrusion".

At their stand S1-J12, visitors can experience the Q8742 bi-spectral camera, Q1645-LE fixed box outdoor camera, Q6125-LE PTZ with IR, access control, analytics, audio products and management software, technologies and the award-winning AXIS P3717-PLE.

Reducing the risk of arc faults

Power management company Eaton has launched a campaign to highlight the risk of arc faults arising from low-voltage electrical distribution panels in commercial and industrial buildings.

“The impact of arc flash incidents can be truly devastating for commercial buildings where the power supply is critical to daily operations.”

Frank Ackland, managing director,
Eaton Middle East

Arc flash incidents can significantly disrupt the security of electricity supply.

The cost of production downtime alone could reach US\$46,000 within 24 hours of an arc fault, according to an Eaton whitepaper, written by European electrical safety expert Alfred Mörx. The study noted that there is the threat to life safety posed by the initial explosion, the potential for reputational damage and the cost of replacement assemblies, particularly in power-critical environments such as process plants and hospitals.

Mörx points out that even organisations meeting the minimum requirements of the International Electrotechnical Commission’s IEC 61439 standard remain vulnerable to arc faults.

The whitepaper, ‘Safety and Risk in Electrical Low-Voltage Installations’, recommends that power-critical operations apply higher standards of safety than those outlined in IEC 61439 in order to minimise the risk to personnel, production schedules and building infrastructure. Mörx commented, “When planning and implementing low-voltage switchgear assemblies and the low-voltage installations supplied from them, it is in many cases necessary from a technical protection point of view to examine whether the minimum requirements specified in the generally accepted



Image Credit: Eaton

technical standards are sufficient for actual operation.”

Frank Ackland, managing director, Eaton Middle East, said, “The impact of arc flash incidents can be truly devastating for commercial buildings where the power supply is critical to daily operations. In extreme cases, they can significantly disrupt the security of electricity supply, leading to an outage that can last days or weeks if not longer. Switchgear can be damaged beyond repair and businesses will soon find themselves facing substantial costs. Eaton has carried out research to develop solutions that not only can reduce the risk of arc faults but

can also minimise the damage to switchgear in an incident so that businesses can protect employees and resume normal service quickly without escalating costs.”

Low-voltage distribution panels play a decisive role in supplying electrical power but even if the equipment is planned, built and tested to meet the standard, they are frequently modified and added to over time. Eaton contends that this can result in an arc flash incident. These hazardous events can also be triggered as a result of human error while working on the switchgear, through contamination, condensation or even by small rodents or insects damaging the electrical system. ♦

Ester fluid for safety and business continuity

With business continuity and fire safety top of agenda, chemicals giant OXEA replaced mineral oil in its transformers with ester transformer fluid.

Image Credit: Adobe Stock

“Safety is critically important for us – a fire in this plant could be catastrophic for our people, facility and assets.”

Dr. Ina Werxhausen, global commercial business director, OXEA

OXEA replaced the mineral oil in its on-site distribution transformers with ester fluid.

OXEA, part of the Oman Oil Company, is a leading chemicals manufacturer with operations around the globe. Its specialist products go towards making high-quality coatings, lubricants, cosmetics, pharmaceutical products, printing inks and plastics.

In 2017, OXEA's manufacturing plant in Oberhausen, Germany was undergoing a review of its internal electrical supply infrastructure. Included in the review were two on-site distribution transformers used to deliver electricity to part of the plant's manufacturing operations. The transformers at the OXEA plant contained mineral oil that served as an insulating and cooling fluid. The project managers involved quickly determined that replacing the mineral oil with ester transformer fluid (a process called retrofilling) could deliver a number of benefits that reinforced the company's approach to safety and business continuity.

Dr. Ina Werxhausen, OXEA's global commercial business director explained, “We manufacture a range of volatile, chemical products that are widely used across the globe. Safety is critically important to us – a fire in this plant could be catastrophic for our people, facility and assets. We immediately saw the value of using ester transformer fluids as a way to protect our people and the environment and so further reinforce our business continuity strategy.”

So how does a transformer fluid make such a difference?

1. Fire safety – ester fluids have a much higher flash and fire point than mineral oil. Replacing mineral oil in a transformer will greatly enhance fire safety, especially in populated, sensitive or manufacturing-intensive areas. The cost of retrofilling for fire safety reasons is often less than the cost of installing or upgrading fire safety systems for insurance purposes.

2. Environmental protection – ester fluids such as MIDEI are officially classified as readily and fully biodegradable and considered to be much more environmentally friendly than mineral oil.

Barry Menzies, global managing director for MIDEI ester fluids, commented, “The OXEA installation demonstrates how MIDEI is often used to help guarantee business continuity in high-risk environments. Like many of our customers, OXEA went through a journey of discovery – seeing how their choice of transformer fluid could dramatically impact their fire safety and business continuity approach.”

MIDEI ester transformer fluids have been tried and tested in thousands of similar high risk environments for over 40 years, where a zero-compromise approach is necessary, such as oil and gas platforms, factories, hospitals, distilleries, nuclear facilities, mines and underground rail networks. ♦

The wireless access control market

A new report from IFSEC Global offers insights into the perceptions and demand relating to wireless technology for access control.

Based on a poll of hundreds of professionals involved in the procurement, operation, deployment and maintenance of access control systems, *The Wireless Access Control Report 2018*, sponsored by ASSA ABLOY, discusses how standards, sustainability, mobile and the cloud continue to shape the future of the wireless access control market.

Transparency Market Research has forecasted robust growth in the global wireless access control market between now and 2025, when revenues will reach US\$1.66bn at a CAGR of 7.9 per cent. Growth has already been driven by advances in wireless technology, the popularity of electronic door locks and innovative functionality, notably in smartphone-mediated access. Requiring no power or signalling cables, wireless systems are also much less disruptive to premises' infrastructure.

Currently, only six per cent of installed electronic access systems are fully wireless; a further 31 per cent include a mix of wired and wireless devices. 'Non-door' deployment of wireless access devices is already significant, according to the survey, and is forecast to grow at a CAGR of 12.9 per cent to 2025.

Trends

- Installers are more convinced than customers about the benefits of wireless access control. 75 per cent agreed wireless systems make installation easier, quicker and more cost-effective, but fewer than half of end users believed wireless systems have a lower cost of ownership.
- Cloud-based physical access control will continue to experience strong demand

Are you planning to get wireless access control for:

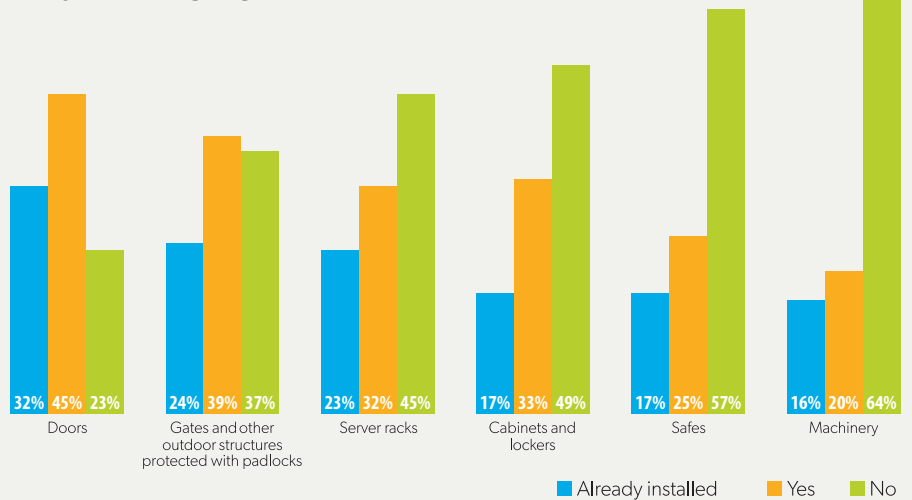


Image Credit: IFSEC Global

growth: ACaaS offers faster scaling and more predictable costs, despite a lack of industry consensus on the cybersecurity advantages and drawbacks vs. in-house management.

- Sustainability is a major and growing factor in procurement, and interest is likely to grow in self-powered and energy-harvesting technologies.
- Open standards like the OSS Standard Offline are critical to future-proofing. Access control systems need to be flexible, to accommodate needs not yet foreseen.
- The uptake of mobile access credentials has been slow – for now. Security professionals may be unwilling to jeopardise security by adopting unproven innovations, but change is coming: Gartner predicts 20 per cent of organisations will use mobile credentials

for access by 2020.

- Bluetooth is becoming the de facto standard for mobile access. The most commonly cited benefit of Bluetooth is enabling remote access for non-employees and revoking credentials instantly. Conversely, perceived cybersecurity risk is the biggest misgiving.
- Integration of an access control system with other functions remains key. For operational efficiency and user convenience benefits, an overwhelming majority of respondents emphasise the importance of having access control points and security systems fully integrated across the building and/or multiple premises. ♦

The full report can be downloaded from www.ifsecglobal.com/resources/

The latest in gas detection

A look at some of the latest **gas detection products** on the market.



Crowcon's H₂S sensor for the XgardIQ fixed point detector.

Image Credit: Crowcon

H₂S detection for oil and gas installations

WWW.CROWCON.COM

The Middle East oil and gas industry contends with high levels of hydrogen sulphide (H₂S) in gas production. Oil production is now experiencing increased risks from H₂S gas, as they extract heavier oils.

Crowcon has developed a high-temperature H₂S sensor to work alongside its XgardIQ fixed point detector and transmitter. Traditional H₂S sensors do not survive well in the hot, dry environments, increasing the risk of an accident. Crowcon's sensor is capable of operating at temperatures up to 70°C, improving on electrochemical technology to retain moisture levels, so preventing evaporation of the electrolyte, even in the harsh Middle Eastern climate. The optional remote sensor housing means the transmitter can be installed in safe and accessible areas (up to 15m away).



MSA's ULTIMA X5000 gas detector.

Image Credit: MSA

Advanced gas detection

WWW.MSAX5000.COM

MSA ULTIMA X5000 gas detector features an advanced OLED display with touch controls, two sensor inputs, and MSA's patented XCell sensors with new TruCal™ technology. It can be operated by two touch buttons on the face or via Bluetooth-enabled smartphone, up to 23 metres away. The X5000 has the ability to have two sensor inputs into the one transmitter. The ULTIMA X5000 is powered by a series of best in class sensors. MSA's TruCal™ technology on selected XCell toxic sensors compensates for sensor drift due to environmental changes, so users don't have to touch or calibrate the detector for up to a year and a half. The high resolution OLED display has been designed in such a way that users can tell at a glance the current status of the detector.

Confined space entry measuring made easy

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The Dräger X-am 8000 multi-gas detector measures up to seven toxic or flammable gases and vapours as well as oxygen simultaneously – in pump or diffusion mode. It provides a clear signalling concept and convenient assistant functions; during confined space entry measuring the device calculates the required flooding time for the probe used. It can be operated via three function keys using only one hand. It features a clearly arranged colour display, coloured alarm LEDs, a loud horn sound, and clearly perceptible vibration. It is equipped with a powerful pump and a shock detector. For measuring of volatile hydrocarbons, the device can be fitted with one of two new PID sensors.



The X-am 8000 multi-gas detector.

Image Credit: Dräger

Selecting protective eyewear

Daryl, Johnson, key accounts manager, Gulf Region at JSP, has some advice on selecting safety eyewear.



“It is essential to gain an appreciation of all the potential hazards that can be encountered in the working environment by conducting a thorough risk assessment.”

JSP's Stealth Coverlite overspectacle.

Hazards to the eye encountered in industrial environments are referenced in BS 7028:1999.

The damaging effects on the human eye that can arise from the various hazards are numerous and complex and range in severity from minor irritation to total blindness.

The following three main hazard classifications encountered in occupational applications are:

- Mechanical risks (flying debris, collision with static objects, ingress of fine particles, abrasion from fibrous material/foilage and burns from hot liquids and molten solids)
- Chemical risks (very fine powders, aerosols, liquids, fumes, vapours and gases)
- Radiation risks (UV emissions, IR from processes and plant that generate heat, laser beams).

As a reference, the main types of

eye protection available include:

- Safety spectacles, the most widely used form of eye protection;
- Goggles should be worn when handling hazardous liquids or other materials where there is a risk of foreign objects getting around normal safety glasses;
- Full-face visor provides protection to the whole face and thus provides greater protection against the risk of chemical burns.

In order to choose the correct eye protection, it is essential to gain an appreciation of all the potential hazards that can be encountered in the working environment by conducting a thorough risk assessment, followed by selecting the appropriate level of protection.

Trends

The latest trends in the market are increased requirements for

lightweight eyewear, and customer company branded eyewear is increasingly popular. JSP have the lightest safety eyewear at 16g (Stealth 16g™) and also the lightest overspectacle at 34g (Stealth Coverlite™) and can manufacture safety eyewear to customers' own brand colours from as little as 1200pcs.

The Stealth Coverlite has a stylish and spacious design that allows them to comfortably fit over prescription eyewear whilst having a modern look, unlike bulkier overspectacles.

The Stealth Coverlite uses next generation moulding techniques to create ultra thin, ultra strong, optically perfect lenses making it the lightest overspectacle available.

Two levels of coating are available: K Class Anti-Scratch or KN Class Anti-Scratch and Anti-Mist combined. ♦



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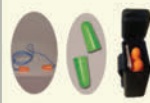
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SAFETY SPECTACLES



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HAND PROTECTION



MAXI GRIP & MAXI CUT GLOVES



EYEWASH



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Proactive spill containment for drums and IBCs

Spill containment

To proactively contain spills from drums and intermediate bulk containers (IBCs), Brady Corporation offers the reusable, lightweight yet heavy-duty Rigid Lock Quickberm that is very practical to use and set up. Its sides can be collapsed to allow forklift traffic and can easily be redeployed for spill containment.

With the Rigid Lock Quickberm, companies can increase compliance with the European Union Water Framework Directive (2000/60/EC), included in national standards and regulations in order to prevent water



Rigid Lock Quickberm helps to contain spills.

Image Credit: Brady Corporation

contamination. The solution also supports ISO 14001, Appendix 1, A.4.7 which requires companies to have an emergency plan to control and absorb discharged liquids.

Slips and falls are some of the

most frequently occurring workplace accidents. By proactively containing potential spills from drums and IBCs, a number of slips and falls can already be prevented. To prevent

employees from tripping over the spill control solution, the Rigid Lock Quickberm has a very visible black and yellow design.

Made out of EG-5 PVC coated fabric, the Rigid Lock Quickberm offers extremely high tear, abrasion and puncture resistance and can withstand harsh liquids, including oil, petroleum and most acids. Its reinforced corner design offers further protection and leak prevention. Its heavy-duty aluminium straps can resist the weight of a forklift and are easy to click into a 180° position to allow forklift traffic, or a 90° position to contain spills.

See www.bradymiddleeast.com.



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Protecting against false alarms

Fire protection

Every false fire alarm is costly and disruptive; an avoidable amount of money is wasted and unnecessary strain is placed on emergency services as a result of false fire alarm call outs. A false alarm causes inconvenient evacuations, affecting routine and reducing the confidence the general public have in fire alarms.

Family owned and operated for over 35 years, Safety Technology International Ltd (STI) is committed to providing professional and reliable products that help prevent false fire alarms, damage, misuse and tampering to essential life safety equipment.

STI supply a range of protective polycarbonate covers which easily retrofit over vulnerable call points, providing instant protection. The sturdy UV-stabilised polycarbonate housing protects against wayward sports equipment, stray shopping trolleys, misguided hospital beds and other accidental activations.

Protection against extreme environments is also available ranging from IP56 to IP66, ideal for use indoor or outdoor, such as swimming pools and wash down areas.

The Stopper line boasts alarm devices for both fire doors and fire extinguishers; the Exit

Stopper® is a unique and highly effective door alarm that will alert you to any unauthorised exits or entries through emergency exit doors.

The Extinguisher Stopper® is a tamperproof, self-contained alarm device which leaves the fire extinguisher completely accessible for emergencies. A cable wraps around the neck of the extinguisher and when removed from the unit will activate a powerful alarm to alert to any misuse.

STI stock a large and varied range of plastic coated heavy-duty steel cages which have been specifically designed to protect smoke detectors, beacons and more, from misuse or accidental damage.

The Resettable Call Point line mimics the feel of breaking glass without the need to replace broken parts, the appearance of real glass maintains operator deterrence and a visible warning flag confirms activation, with a key allowing the unit to be easily reset.

The latest addition to the Resettable Call Point line offers a completely global solution. The UL listed Global ReSet has an adaptable mounting plate to fit US, European, double-gang and single-gang mounting boxes.



Image Credit: STI

STI's products help prevent false fire alarms and damage to life safety equipment.

StopperSwitches are a versatile range of attractive push buttons combining unique design, quality and value. The aesthetically appealing low/high voltage push buttons can fit any standard UK-type switch socket box; three types are available – key-to-reset, momentary and pneumatic.

For further information on STI's fire, safety and security products contact sales@sti-emea.com, call +44(0)1527 520 999 or visit www.sti-emea.com.

Pure Safety Group launches new safety harness

Fall protection

Houston-based fall protection company Pure Safety Group (PSG) has unveiled its Guardian Fall Protection S1 safety harness. The S1 is the first in a series of innovative new harnesses designed with three levels of features for various real life work scenarios. All harnesses meet OSHA standards, exceed ANSI standards and are CSA-certified.

The S1 Harness is a rugged utility option, designed with water-resistant contrasting core webbing, label cover and impact indicators for easy inspection, dual lanyard keepers and durable rubber web keepers. The S1 features steel hardware that includes a three-bar torso adjustment for quick and proper fitting, various

connection point options for use in multiple applications, and a chest strap captivation for performance. The S1 Harness is available in four sizes for optimal fit. Building on the S1 Harness, the S3 Harness and the S5 Harness, each with additional, enhanced feature sets and innovative components, will launch in the first quarter of 2019. The harnesses in the S series are able to be customised.

"The S series is the PSG jump start on 2019," said Oliver Auston, chief innovation officer at the company. "This first harness is the basis for the rest of the series and combines design and new and existing components to address industry needs in the best harness available. With this new innovative harness, we are able

to offer improved fit and sizing, consistent performance and fivepoint adjustment. We are very excited that all harnesses will be assembled in the USA. In addition to the harness series, we also have 10 new, innovative product lines across the spectrum of fall protection, including dropped objects prevention solutions, that we will introduce in the first half of the New Year."

The S harness series is one of the first major product launches to come from PSG since it combined its Guardian Fall Protection, Checkmate and Ty-Flot companies under one innovation strategy, made up of top engineers, designers and manufacturing experts from around the world.

التقنيات التي تم التوصل إليها. وهي تشمل استخدام الطائرات بدون طيار لمراقبة مخاطر الغبار. كما تستعين مؤسسة الفجيرة للموارد الطبيعية بالطائرات بدون طيار المصممة والمصنعة محلياً في الإمارة في عمليات إطفاء الحرائق. «هذه هي المرة الأولى التي تُستخدم فيها الطائرات بدون طيار في عمليات الإطفاء. أعتقد أننا رواد في هذا المجال».

ولا تتوقف حدود مسؤولية المؤسسة على الممارسات المتعلقة بالصحة والسلامة والبيئة في الإمارة، بل تدعم وتشجع الشركات وغيرها من الدوائر الحكومية المحلية الأخرى على إطلاق ومراقبة المبادرات المتعلقة بالسلامة في مختلف أنحاء الفجيرة.

وذكر الدكتور الخضري أنه مع توافر القواعد الواضحة للصحة والسلامة والبيئة في قطاع التعدين، تساعد مؤسسة الفجيرة للموارد الطبيعية الشركات المحلية والدولية في اتباع ومراقبة طرق العمل الآمنة. ليس هذا فحسب، بل تتولى المؤسسة تنفيذ البرامج التدريبية بصفة منتظمة لموظفيها وللشركات العاملة في المحاجر لإدارة المخاوف البيئية في هذا القطاع. علماً بأن الدكتور الخضري، كمستشار في شؤون الصحة والسلامة والبيئة، يؤدي دوراً فعالاً في تقديم المشورة بشأن جميع نواحي الصحة والسلامة والبيئة في قطاع التعدين والقطاعات ذات الصلة، ويشمل ذلك الاستراتيجيات المتعلقة بخطط وطرق الطوارئ والإجلاء.

كما تؤدي التقنية دوراً هائلاً لمساعدة مؤسسة الفجيرة للموارد الطبيعية على إدارة عملياتها في مختلف أنحاء الإمارة. «لا يمكننا التقليل من دور التقنيات في تطوير قطاع التعدين، بل وتحسين معايير الصحة والسلامة والبيئة في الإمارة. فنحن نستخدمها لإنقاذ الأرواح، ولمراقبة المخاطر، إلى جانب الدفاع عن الدولة».



الدكتور هيثم الخضري

التعدين يلعب دوراً مهماً في اقتصاد الإمارة، ويوفر العديد من فرص الاستثمار، ومع ذلك لا يمكن الاستهانة بالتحديات الصحية المرتبطة بهذا القطاع. «يمكن أن يكون للتعدين تأثير مدمر على البيئة. الغبار على سبيل المثال هو إحدى المشكلات التي يتسبب فيها. ونحن نحاول التغلب على مشكلة الغبار الذي يعد منتجاً ثانوياً للأنشطة التي تُجرى في جميع أنحاء إمارة الفجيرة. ولا يزال التعرض للغبار الناتج عن عمليات التعدين والمحاجر يشكل خطراً جسيماً على صحة العمال. إننا نراقب في مؤسسة الفجيرة للموارد الطبيعية هذا الخطر على مدار الساعة، ويسعى مستشارونا الأكفاء لإيجاد الحلول الفورية لمواجهة هذه التأثيرات».

هذا، وتراعي المؤسسة شؤون الصحة والسلامة والبيئة بمنتهى الجدية والالتزام مستعينة في ذلك بأحدث

الأرباح. وإمارة الفجيرة تقع على الساحل الشرقي، وهي تشتهر بأهميتها الكبرى في منطقة الشرق الأوسط في مجال التجارة والتخزين ومهوين سفن البضائع من مختلف أنحاء العالم. فهي تضم ثاني أكبر ميناء لتزويد السفن بالوقود في العالم. ولهذا السبب تحتل الصحة والسلامة أهمية كبرى في الفجيرة.

ومن ناحية أخرى، تزرع الفجيرة بالموارد الطبيعية؛ مثل النحاس والمغنيسيوم والكروم والحجر الجيري. وقد أعلنت حكومة دولة الإمارات الاتحادية - مؤخراً - عن استثمار 913 مليون دولار أمريكي في قطاع التعدين والمحاجر في جميع أنحاء الدولة، مع تخصيص 85 في المائة منها لمؤسسة الفجيرة للموارد الطبيعية.

وقد أجرت «نشرة الصحة والسلامة والأمن - الشرق الأوسط» حواراً مع الدكتور هيثم الخضري، مستشار شركة IMS ومهندس الصحة والسلامة والبيئة في مؤسسة الفجيرة للموارد الطبيعية، تطرّق إلى الدعم الذي تقدمه الحكومة الاتحادية وحكومة الإمارة لتعزيز قطاع التعدين.

قال إنه قد تم إنشاء مؤسسة الفجيرة للموارد الطبيعية كهيئة مستقلة بموجب المرسوم الإماراتي رقم 1 لعام 2009 الذي أصدره حاكم الفجيرة، وهي الجهة المنوط بها الإشراف على صناعة التعدين والمحاجر بالإمارة. وقد أنشئت بهدف الرقابة على أنشطة التعدين في الإمارة ودعم القطاع بالمعرفة الفنية على يد خبراء، كما تجري الدراسات وأعمال المسح الجيولوجية لتطوير قطاع الأحجار والمعادن واستغلال الموارد الطبيعية للإمارة. وقال الدكتور الخضري إن حكومة الفجيرة وحاكمها يقدمان، منذ ذلك الحين، الدعم الكامل لتعزيز قطاع التعدين بأحدث التقنيات، ويوليان أهمية قصوى للصحة والسلامة في هذا القطاع.

يناير/كانون الثاني		2019	
دبي	www.intersecexpo.com	22 - 20	معرض إنترسك
فبراير/شباط		مفكرة	
الخبر	www.petroenvironment.org	21 - 19	معرض بيئة البترول 2019
مارس/آذار		الفعاليات	
دبي	www.middleeastelectricity.com	7 - 5	معرض الشرق الأوسط للكهرباء
المنامة	www.europetro.com	26 - 25	منتدى الخليج للسلامة
أبريل/نيسان		معرض إنترسك	
جدة	www.intersec-ksa.com	16 - 14	معرض إنترسك السعودية





صناعة التعدين تلعب دوراً هاماً في اقتصاد الفجيرة

الفجيرة تعزز العمليات الآمنة في التعدين

تتخذ حكومة الفجيرة - حالياً - خطوات واسعة لتعزيز العوائد، وفي الوقت نفسه تقليل المخاطر البيئية المرتبطة بصناعة التعدين. وسوق الإنشاءات تعتبر محركاً رئيسياً للاقتصاد الإماراتي. وعلى الرغم من انخفاض أسعار النفط والغاز، خلال الأعوام القليلة الماضية، فإن هذا القطاع أبدى مرونة تعود إلى قوة صناعة التعدين في عموم أنحاء الدولة، وقد استمد الدعم من زيادة الإنفاق على مشاريع البنية التحتية العملاقة. نتيجة لذلك، واصلت صناعة المحاجر والخلائط النمو عاماً تلو عام. وتم فرض لوائح جديدة مواكبة لهذا النمو تضمن استخدام المحاجر لأحدث التقنيات التي تلحق أقل الضرر بالبيئة والمجتمعات المحيطة.

تلك المستخدمة في الدول الأخرى على الصعيد العالمي. وفي حين تواصل كل من أبوظبي ودبي تعزيز معايير الصحة والسلامة والبيئة، تنضم حكومة الفجيرة إلى ركب اللاعبين الكبار لتحقيق الالتزام بمعايير السلامة من أجل الارتقاء بمستويات رفاهية العمال، بالإضافة إلى تحقيق

المساعدة على تحسين السلامة في مكان العمل، إلى جانب ضمان وقوع أقل عدد ممكن من الحوادث المتعلقة بالعمل. وجدير بالذكر أن الدولة تحتل، منذ أمد بعيد، موقع الصدارة في تطبيق أعلى المعايير لسلامة مكان العمل، فضلاً عن استخدام التقنيات العالمية التي تضاهي

تأتي الصحة والسلامة ضمن القطاعات ذات الأولوية في دولة الإمارات، وذلك بسبب وجود الصناعات سريعة التطور؛ مثل صناعة الإنشاءات، والنفط والغاز، والتعدين، هذا فضلاً عن الشحن التجاري. وفي عام 2017، أصدرت دولة الإمارات قانوناً جديداً للصحة والسلامة من أجل

فني هذا العدد ...



تصليات

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الناشر: نك فورد هام

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الفجيرة تعزز العمليات الآمنة في التعدين

تتخذ حكومة الفجيرة - حاليا - خطوات واسعة لتعزيز العوائد،
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